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When it comes to protecting and switching, industry in many countries relies on Eaton products.

Top product quality as well as tested reliability and safety guarantee a high level of protection for people, installations and systems. Official approvals in many countries prove that Eaton builds its products in line with the latest national and international regulations.

|   |                 |
|---|-----------------|
| <b>up to 25 kA</b>                      | IEC/EN 60947-2  |
| <b>up to 15 kA</b>                      | IEC/EN 60898-1  |
| <b>up to 14 kA</b>                      | UL 489          |
| <b>up to 10 kA</b>                      | UL 1077         |
| <b>10 kA</b>                            | IEC/EN 60947-2  |
| at 60 V DC 1-pole<br>at 120 V DC 2-pole | (for FAZT only) |



# Content FAZ Miniature Circuit Breakers (MCBs)

SG06811



## FAZ

|                        |     |
|------------------------|-----|
| Characteristic B ..... | .XX |
| Characteristic C ..... | .XX |
| Characteristic D ..... | .XX |
| Characteristic K ..... | .XX |
| Characteristic S ..... | .XX |
| Characteristic Z ..... | .XX |

## FAZ-PN

|                        |     |
|------------------------|-----|
| Characteristic B ..... | .XX |
| Characteristic C ..... | .XX |

## FAZ-...-HS

|                        |     |
|------------------------|-----|
| Characteristic B ..... | .XX |
|------------------------|-----|

## FAZ Specifications

|  |     |
|--|-----|
| Specifications .....                   | .XX |
| Dimensions .....                       | .XX |
| Tripping Characteristic .....          | .XX |
| Internal Resistance .....              | .XX |
| Fault Loop Impedance .....             | .XX |
| Power Loss .....                       | .XX |
| Influence of Ambient Temperature ..... | .XX |
| Maximum Let-Through Energy .....       | .XX |
| Maximum Let-Through Current .....      | .XX |
| Short Circuit Selectivity .....        | .XX |
| Back-up Protection .....               | .XX |
| Overload Selectivity .....             | .XX |
| Influence of the Line Frequency .....  | .XX |
| BB Busbars .....                       | .XX |
| Accessories .....                      | .XX |

## FAZ-T

|                        |     |
|------------------------|-----|
| Characteristic B ..... | .XX |
| Characteristic C ..... | .XX |
| Characteristic D ..... | .XX |

## FAZ-T, FAZ-...-DC Specifications

|  |     |
|--|-----|
| Specifications .....   | .XX |
| Dimensions .....   | .XX |
| Tripping Characteristic .....  | .XX |
| Power Loss .....   | .XX |
| Influence of Ambient Temperature .....                                       | .XX |
| Influence of the Line Frequency .....  | .XX |
| Load rating in case of circuit breakers arranged one next to the other ..... | .XX |
| Maximum Let-Through Energy .....   | .XX |
| Maximum Let-Through Current .....  | .XX |

## FAZ-...-DC

|                        |     |
|------------------------|-----|
| Characteristic C ..... | .XX |
|------------------------|-----|





# Content FAZ Miniature Circuit Breakers (MCBs)

## FAZ-...-DC Specifications

|                               |     |
|-------------------------------|-----|
| Specifications .....          | .XX |
| Dimensions .....              | .XX |
| Tripping Characteristic ..... | .XX |

## FAZ-...-NA

|                        |     |
|------------------------|-----|
| Characteristic B ..... | .XX |
| Characteristic C ..... | .XX |
| Characteristic D ..... | .XX |

## FAZ-...-NA-DC

|                        |     |
|------------------------|-----|
| Characteristic C ..... | .XX |
|------------------------|-----|

## FAZ-...-RT

|                        |     |
|------------------------|-----|
| Characteristic B ..... | .XX |
| Characteristic C ..... | .XX |
| Characteristic D ..... | .XX |

## FAZ-NA/RT Specifications

|                                   |     |
|-----------------------------------|-----|
| Specifications .....              | .XX |
| Dimensions .....                  | .XX |
| Tripping Characteristic .....     | .XX |
| Internal Resistance .....         | .XX |
| Power Loss .....                  | .XX |
| Maximum Let-Through Energy .....  | .XX |
| Maximum Let-Through Current ..... | .XX |
| Z-SV/UL-16 Busbars .....          | .XX |
| Accessories .....                 | .XX |





# FAZ | Characteristic B

## FAZ Miniature Circuit Breakers (MCBs) Characteristic B

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| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
| <b>1-pole</b>              |                      |   |                                |  |                     |             |                         |
| 1                          | 240/415              | 15  | 277                            | 10   | FAZ-B1/1            | 278520      | 12/120                  |
| 1,5                        | 240/415              | 15  | 277                            | 10   | FAZ-B1,5/1          | 278521      | 12/120                  |
| 1,6                        | 240/415              | 15  | 277                            | 10   | FAZ-B1,6/1          | 278522      | 12/120                  |
| 2                          | 240/415              | 15  | 277                            | 10   | FAZ-B2/1            | 278523      | 12/120                  |
| 2,5                        | 240/415              | 15  | 277                            | 10   | FAZ-B2,5/1          | 278524      | 12/120                  |
| 3                          | 240/415              | 15  | 277                            | 10   | FAZ-B3/1            | 278525      | 12/120                  |
| 3,5                        | 240/415              | 15  | 277                            | 10   | FAZ-B3,5/1          | 278526      | 12/120                  |
| 4                          | 240/415              | 15  | 277                            | 10   | FAZ-B4/1            | 278527      | 12/120                  |
| 5                          | 240/415              | 15  | 277                            | 10   | FAZ-B5/1            | 278528      | 12/120                  |
| 6                          | 240/415              | 15  | 277                            | 10   | FAZ-B6/1            | 278529      | 12/120                  |
| 8                          | 240/415              | 15  | 277                            | 10   | FAZ-B8/1            | 278530      | 12/120                  |
| 10                         | 240/415              | 15  | 277                            | 10   | FAZ-B10/1           | 278531      | 12/120                  |
| 12                         | 240/415              | 15  | 277                            | 10   | FAZ-B12/1           | 278532      | 12/120                  |
| 13                         | 240/415              | 15  | 277                            | 10   | FAZ-B13/1           | 278533      | 12/120                  |
| 15                         | 240/415              | 15  | 277                            | 10   | FAZ-B15/1           | 278534      | 12/120                  |
| 16                         | 240/415              | 15  | 277                            | 10   | FAZ-B16/1           | 278535      | 12/120                  |
| 20                         | 240/415              | 15  | 277                            | 10   | FAZ-B20/1           | 278536      | 12/120                  |
| 25                         | 240/415              | 15  | 277                            | 10   | FAZ-B25/1           | 278537      | 12/120                  |
| 32                         | 240/415              | 15  | 277                            | 10   | FAZ-B32/1           | 278538      | 12/120                  |
| 40                         | 240/415              | 15  | 277                            | 5  | FAZ-B40/1           | 278539      | 12/120                  |
| 50                         | 240/415              | 15  | 277                            | 5  | FAZ-B50/1           | 278540      | 12/120                  |
| 63                         | 240/415              | 15  | 277                            | 5  | FAZ-B63/1           | 278541      | 12/120                  |

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| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
| <b>1+N-pole</b>            |                      |   |                                |  |                     |             |                         |
| 1                          | 240                  | 15  | 277                            | 10   | FAZ-B1/1N           | 278633      | 1/60                    |
| 1,5                        | 240                  | 15  | 277                            | 10   | FAZ-B1,5/1N         | 278634      | 1/60                    |
| 1,6                        | 240                  | 15  | 277                            | 10   | FAZ-B1,6/1N         | 278635      | 1/60                    |
| 2                          | 240                  | 15  | 277                            | 10   | FAZ-B2/1N           | 278636      | 1/60                    |
| 2,5                        | 240                  | 15  | 277                            | 10   | FAZ-B2,5/1N         | 278637      | 1/60                    |
| 3                          | 240                  | 15  | 277                            | 10   | FAZ-B3/1N           | 278638      | 1/60                    |
| 3,5                        | 240                  | 15  | 277                            | 10   | FAZ-B3,5/1N         | 278639      | 1/60                    |
| 4                          | 240                  | 15  | 277                            | 10   | FAZ-B4/1N           | 278640      | 1/60                    |
| 5                          | 240                  | 15  | 277                            | 10   | FAZ-B5/1N           | 278641      | 1/60                    |
| 6                          | 240                  | 15  | 277                            | 10   | FAZ-B6/1N           | 278642      | 1/60                    |
| 8                          | 240                  | 15  | 277                            | 10   | FAZ-B8/1N           | 278643      | 1/60                    |
| 10                         | 240                  | 15  | 277                            | 10   | FAZ-B10/1N          | 278644      | 1/60                    |
| 12                         | 240                  | 15  | 277                            | 10   | FAZ-B12/1N          | 278645      | 1/60                    |
| 13                         | 240                  | 15  | 277                            | 10   | FAZ-B13/1N          | 278646      | 1/60                    |
| 15                         | 240                  | 15  | 277                            | 10   | FAZ-B15/1N          | 278647      | 1/60                    |
| 16                         | 240                  | 15  | 277                            | 10   | FAZ-B16/1N          | 278648      | 1/60                    |
| 20                         | 240                  | 15  | 277                            | 10   | FAZ-B20/1N          | 278649      | 1/60                    |
| 25                         | 240                  | 15  | 277                            | 10   | FAZ-B25/1N          | 278650      | 1/60                    |
| 32                         | 240                  | 15  | 277                            | 10   | FAZ-B32/1N          | 278651      | 1/60                    |
| 40                         | 240                  | 15  | 277                            | 5  | FAZ-B40/1N          | 278652      | 1/60                    |
| 50                         | 240                  | 15  | 277                            | 5  | FAZ-B50/1N          | 278653      | 1/60                    |
| 63                         | 240                  | 15  | 277                            | 5  | FAZ-B63/1N          | 278654      | 1/60                    |





# FAZ | Characteristic B

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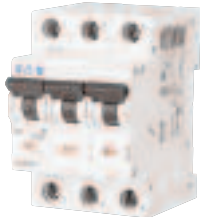


| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|

## 2-pole

|     |     |    |          |    |            |        |      |
|-----|-----|----|----------|----|------------|--------|------|
| 1   | 415 | 15 | 480Y/277 | 10 | FAZ-B1/2   | 278719 | 1/60 |
| 1,5 | 415 | 15 | 480Y/277 | 10 | FAZ-B1,5/2 | 278720 | 1/60 |
| 1,6 | 415 | 15 | 480Y/277 | 10 | FAZ-B1,6/2 | 278721 | 1/60 |
| 2   | 415 | 15 | 480Y/277 | 10 | FAZ-B2/2   | 278722 | 1/60 |
| 2,5 | 415 | 15 | 480Y/277 | 10 | FAZ-B2,5/2 | 278723 | 1/60 |
| 3   | 415 | 15 | 480Y/277 | 10 | FAZ-B3/2   | 278724 | 1/60 |
| 3,5 | 415 | 15 | 480Y/277 | 10 | FAZ-B3,5/2 | 278725 | 1/60 |
| 4   | 415 | 15 | 480Y/277 | 10 | FAZ-B4/2   | 278726 | 1/60 |
| 5   | 415 | 15 | 480Y/277 | 10 | FAZ-B5/2   | 278727 | 1/60 |
| 6   | 415 | 15 | 480Y/277 | 10 | FAZ-B6/2   | 278728 | 1/60 |
| 8   | 415 | 15 | 480Y/277 | 10 | FAZ-B8/2   | 278729 | 1/60 |
| 10  | 415 | 15 | 480Y/277 | 10 | FAZ-B10/2  | 278730 | 1/60 |
| 12  | 415 | 15 | 480Y/277 | 10 | FAZ-B12/2  | 278731 | 1/60 |
| 13  | 415 | 15 | 480Y/277 | 10 | FAZ-B13/2  | 278732 | 1/60 |
| 15  | 415 | 15 | 480Y/277 | 10 | FAZ-B15/2  | 278733 | 1/60 |
| 16  | 415 | 15 | 480Y/277 | 10 | FAZ-B16/2  | 278734 | 1/60 |
| 20  | 415 | 15 | 480Y/277 | 10 | FAZ-B20/2  | 278735 | 1/60 |
| 25  | 415 | 15 | 480Y/277 | 10 | FAZ-B25/2  | 278736 | 1/60 |
| 32  | 415 | 15 | 480Y/277 | 10 | FAZ-B32/2  | 278737 | 1/60 |
| 40  | 415 | 15 | 480Y/277 | 5  | FAZ-B40/2  | 278738 | 1/60 |
| 50  | 415 | 15 | 480Y/277 | 5  | FAZ-B50/2  | 278739 | 1/60 |
| 63  | 415 | 15 | 480Y/277 | 5  | FAZ-B63/2  | 278740 | 1/60 |

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## 3-pole

|     |     |    |          |    |            |        |      |
|-----|-----|----|----------|----|------------|--------|------|
| 1   | 415 | 15 | 480Y/277 | 10 | FAZ-B1/3   | 278832 | 1/40 |
| 1,5 | 415 | 15 | 480Y/277 | 10 | FAZ-B1,5/3 | 278833 | 1/40 |
| 1,6 | 415 | 15 | 480Y/277 | 10 | FAZ-B1,6/3 | 278834 | 1/40 |
| 2   | 415 | 15 | 480Y/277 | 10 | FAZ-B2/3   | 278835 | 1/40 |
| 2,5 | 415 | 15 | 480Y/277 | 10 | FAZ-B2,5/3 | 278836 | 1/40 |
| 3   | 415 | 15 | 480Y/277 | 10 | FAZ-B3/3   | 278837 | 1/40 |
| 3,5 | 415 | 15 | 480Y/277 | 10 | FAZ-B3,5/3 | 278838 | 1/40 |
| 4   | 415 | 15 | 480Y/277 | 10 | FAZ-B4/3   | 278839 | 1/40 |
| 5   | 415 | 15 | 480Y/277 | 10 | FAZ-B5/3   | 278840 | 1/40 |
| 6   | 415 | 15 | 480Y/277 | 10 | FAZ-B6/3   | 278841 | 1/40 |
| 8   | 415 | 15 | 480Y/277 | 10 | FAZ-B8/3   | 278842 | 1/40 |
| 10  | 415 | 15 | 480Y/277 | 10 | FAZ-B10/3  | 278843 | 1/40 |
| 12  | 415 | 15 | 480Y/277 | 10 | FAZ-B12/3  | 278844 | 1/40 |
| 13  | 415 | 15 | 480Y/277 | 10 | FAZ-B13/3  | 278845 | 1/40 |
| 15  | 415 | 15 | 480Y/277 | 10 | FAZ-B15/3  | 278846 | 1/40 |
| 16  | 415 | 15 | 480Y/277 | 10 | FAZ-B16/3  | 278847 | 1/40 |
| 20  | 415 | 15 | 480Y/277 | 10 | FAZ-B20/3  | 278848 | 1/40 |
| 25  | 415 | 15 | 480Y/277 | 10 | FAZ-B25/3  | 278849 | 1/40 |
| 32  | 415 | 15 | 480Y/277 | 10 | FAZ-B32/3  | 278850 | 1/40 |
| 40  | 415 | 15 | 480Y/277 | 5  | FAZ-B40/3  | 278851 | 1/40 |
| 50  | 415 | 15 | 480Y/277 | 5  | FAZ-B50/3  | 278852 | 1/40 |
| 63  | 415 | 15 | 480Y/277 | 5  | FAZ-B63/3  | 278853 | 1/40 |

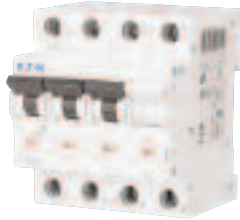




# FAZ | Characteristic B

| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|

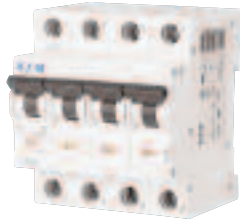
SG07311



### 3+N-pole

|     |     |    |          |    |             |        |      |
|-----|-----|----|----------|----|-------------|--------|------|
| 1   | 415 | 15 | 480Y/277 | 10 | FAZ-B1/3N   | 278934 | 1/30 |
| 1,5 | 415 | 15 | 480Y/277 | 10 | FAZ-B1,5/3N | 278935 | 1/30 |
| 1,6 | 415 | 15 | 480Y/277 | 10 | FAZ-B1,6/3N | 278936 | 1/30 |
| 2   | 415 | 15 | 480Y/277 | 10 | FAZ-B2/3N   | 278937 | 1/30 |
| 2,5 | 415 | 15 | 480Y/277 | 10 | FAZ-B2,5/3N | 278938 | 1/30 |
| 3   | 415 | 15 | 480Y/277 | 10 | FAZ-B3/3N   | 278939 | 1/30 |
| 3,5 | 415 | 15 | 480Y/277 | 10 | FAZ-B3,5/3N | 278940 | 1/30 |
| 4   | 415 | 15 | 480Y/277 | 10 | FAZ-B4/3N   | 278941 | 1/30 |
| 5   | 415 | 15 | 480Y/277 | 10 | FAZ-B5/3N   | 278942 | 1/30 |
| 6   | 415 | 15 | 480Y/277 | 10 | FAZ-B6/3N   | 278943 | 1/30 |
| 8   | 415 | 15 | 480Y/277 | 10 | FAZ-B8/3N   | 278944 | 1/30 |
| 10  | 415 | 15 | 480Y/277 | 10 | FAZ-B10/3N  | 278945 | 1/30 |
| 12  | 415 | 15 | 480Y/277 | 10 | FAZ-B12/3N  | 278946 | 1/30 |
| 13  | 415 | 15 | 480Y/277 | 10 | FAZ-B13/3N  | 278947 | 1/30 |
| 15  | 415 | 15 | 480Y/277 | 10 | FAZ-B15/3N  | 278948 | 1/30 |
| 16  | 415 | 15 | 480Y/277 | 10 | FAZ-B16/3N  | 278949 | 1/30 |
| 20  | 415 | 15 | 480Y/277 | 10 | FAZ-B20/3N  | 278950 | 1/30 |
| 25  | 415 | 15 | 480Y/277 | 10 | FAZ-B25/3N  | 278951 | 1/30 |
| 32  | 415 | 15 | 480Y/277 | 10 | FAZ-B32/3N  | 278952 | 1/30 |
| 40  | 415 | 15 | 480Y/277 | 5  | FAZ-B40/3N  | 278953 | 1/30 |
| 50  | 415 | 15 | 480Y/277 | 5  | FAZ-B50/3N  | 278954 | 1/30 |
| 63  | 415 | 15 | 480Y/277 | 5  | FAZ-B63/3N  | 278955 | 1/30 |

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### 4-pole

|     |     |    |          |    |            |        |      |
|-----|-----|----|----------|----|------------|--------|------|
| 1   | 415 | 15 | 480Y/277 | 10 | FAZ-B1/4   | 279020 | 1/30 |
| 1,5 | 415 | 15 | 480Y/277 | 10 | FAZ-B1,5/4 | 279021 | 1/30 |
| 1,6 | 415 | 15 | 480Y/277 | 10 | FAZ-B1,6/4 | 279022 | 1/30 |
| 2   | 415 | 15 | 480Y/277 | 10 | FAZ-B2/4   | 279023 | 1/30 |
| 2,5 | 415 | 15 | 480Y/277 | 10 | FAZ-B2,5/4 | 279024 | 1/30 |
| 3   | 415 | 15 | 480Y/277 | 10 | FAZ-B3/4   | 279025 | 1/30 |
| 3,5 | 415 | 15 | 480Y/277 | 10 | FAZ-B3,5/4 | 279026 | 1/30 |
| 4   | 415 | 15 | 480Y/277 | 10 | FAZ-B4/4   | 279027 | 1/30 |
| 5   | 415 | 15 | 480Y/277 | 10 | FAZ-B5/4   | 279028 | 1/30 |
| 6   | 415 | 15 | 480Y/277 | 10 | FAZ-B6/4   | 279029 | 1/30 |
| 8   | 415 | 15 | 480Y/277 | 10 | FAZ-B8/4   | 279030 | 1/30 |
| 10  | 415 | 15 | 480Y/277 | 10 | FAZ-B10/4  | 279031 | 1/30 |
| 12  | 415 | 15 | 480Y/277 | 10 | FAZ-B12/4  | 279032 | 1/30 |
| 13  | 415 | 15 | 480Y/277 | 10 | FAZ-B13/4  | 279033 | 1/30 |
| 15  | 415 | 15 | 480Y/277 | 10 | FAZ-B15/4  | 279034 | 1/30 |
| 16  | 415 | 15 | 480Y/277 | 10 | FAZ-B16/4  | 279035 | 1/30 |
| 20  | 415 | 15 | 480Y/277 | 10 | FAZ-B20/4  | 279036 | 1/30 |
| 25  | 415 | 15 | 480Y/277 | 10 | FAZ-B25/4  | 279037 | 1/30 |
| 32  | 415 | 15 | 480Y/277 | 10 | FAZ-B32/4  | 279038 | 1/30 |
| 40  | 415 | 15 | 480Y/277 | 5  | FAZ-B40/4  | 279039 | 1/30 |
| 50  | 415 | 15 | 480Y/277 | 5  | FAZ-B50/4  | 279040 | 1/30 |
| 63  | 415 | 15 | 480Y/277 | 5  | FAZ-B63/4  | 279041 | 1/30 |





# FAZ | Characteristic C

## FAZ Miniature Circuit Breakers (MCBs) Characteristic C

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| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
| <b>1-pole</b>              |                      |   |                                |  |                     |             |                         |
| 0,16                       | 240/415              | 15  | 277                            | 5  | FAZ-C0,16/1         | 278542      | 12/120                  |
| 0,25                       | 240/415              | 15  | 277                            | 5  | FAZ-C0,25/1         | 278543      | 12/120                  |
| 0,5                        | 240/415              | 15  | 277                            | 10   | FAZ-C0,5/1          | 278544      | 12/120                  |
| 0,75                       | 240/415              | 15  | 277                            | 10   | FAZ-C0,75/1         | 278545      | 12/120                  |
| 1                          | 240/415              | 15  | 277                            | 10   | FAZ-C1/1            | 278546      | 12/120                  |
| 1,5                        | 240/415              | 15  | 277                            | 10   | FAZ-C1,5/1          | 278547      | 12/120                  |
| 1,6                        | 240/415              | 15  | 277                            | 10   | FAZ-C1,6/1          | 278548      | 12/120                  |
| 2                          | 240/415              | 15  | 277                            | 10   | FAZ-C2/1            | 278549      | 12/120                  |
| 2,5                        | 240/415              | 15  | 277                            | 10   | FAZ-C2,5/1          | 278550      | 12/120                  |
| 3                          | 240/415              | 15  | 277                            | 10   | FAZ-C3/1            | 278551      | 12/120                  |
| 3,5                        | 240/415              | 15  | 277                            | 10   | FAZ-C3,5/1          | 278552      | 12/120                  |
| 4                          | 240/415              | 15  | 277                            | 10   | FAZ-C4/1            | 278553      | 12/120                  |
| 5                          | 240/415              | 15  | 277                            | 10   | FAZ-C5/1            | 278554      | 12/120                  |
| 6                          | 240/415              | 15  | 277                            | 10   | FAZ-C6/1            | 278555      | 12/120                  |
| 8                          | 240/415              | 15  | 277                            | 10   | FAZ-C8/1            | 278556      | 12/120                  |
| 10                         | 240/415              | 15  | 277                            | 10   | FAZ-C10/1           | 278557      | 12/120                  |
| 12                         | 240/415              | 15  | 277                            | 10   | FAZ-C12/1           | 278558      | 12/120                  |
| 13                         | 240/415              | 15  | 277                            | 10   | FAZ-C13/1           | 278559      | 12/120                  |
| 15                         | 240/415              | 15  | 277                            | 10   | FAZ-C15/1           | 278560      | 12/120                  |
| 16                         | 240/415              | 15  | 277                            | 10   | FAZ-C16/1           | 278561      | 12/120                  |
| 20                         | 240/415              | 15  | 277                            | 10   | FAZ-C20/1           | 278562      | 12/120                  |
| 25                         | 240/415              | 15  | 277                            | 10   | FAZ-C25/1           | 278563      | 12/120                  |
| 32                         | 240/415              | 15  | 277                            | 10   | FAZ-C32/1           | 278564      | 12/120                  |
| 40                         | 240/415              | 15  | 277                            | 5  | FAZ-C40/1           | 278565      | 12/120                  |
| 50                         | 240/415              | 15  | 277                            | 5  | FAZ-C50/1           | 278566      | 12/120                  |
| 63                         | 240/415              | 15  | 277                            | 5  | FAZ-C63/1           | 278567      | 12/120                  |

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| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
| <b>1+N-pole</b>            |                      |   |                                |  |                     |             |                         |
| 0,16                       | 240                  | 15  | 277                            | 5  | FAZ-C0,16/1N        | 278655      | 1/60                    |
| 0,25                       | 240                  | 15  | 277                            | 5  | FAZ-C0,25/1N        | 278656      | 1/60                    |
| 0,5                        | 240                  | 15  | 277                            | 10   | FAZ-C0,5/1N         | 278657      | 1/60                    |
| 0,75                       | 240                  | 15  | 277                            | 10   | FAZ-C0,75/1N        | 278658      | 1/60                    |
| 1                          | 240                  | 15  | 277                            | 10   | FAZ-C1/1N           | 278659      | 1/60                    |
| 1,5                        | 240                  | 15  | 277                            | 10   | FAZ-C1,5/1N         | 278660      | 1/60                    |
| 1,6                        | 240                  | 15  | 277                            | 10   | FAZ-C1,6/1N         | 278661      | 1/60                    |
| 2                          | 240                  | 15  | 277                            | 10   | FAZ-C2/1N           | 278662      | 1/60                    |
| 2,5                        | 240                  | 15  | 277                            | 10   | FAZ-C2,5/1N         | 278663      | 1/60                    |
| 3                          | 240                  | 15  | 277                            | 10   | FAZ-C3/1N           | 278664      | 1/60                    |
| 3,5                        | 240                  | 15  | 277                            | 10   | FAZ-C3,5/1N         | 278665      | 1/60                    |
| 4                          | 240                  | 15  | 277                            | 10   | FAZ-C4/1N           | 278666      | 1/60                    |
| 5                          | 240                  | 15  | 277                            | 10   | FAZ-C5/1N           | 278667      | 1/60                    |
| 6                          | 240                  | 15  | 277                            | 10   | FAZ-C6/1N           | 278668      | 1/60                    |
| 8                          | 240                  | 15  | 277                            | 10   | FAZ-C8/1N           | 278669      | 1/60                    |
| 10                         | 240                  | 15  | 277                            | 10   | FAZ-C10/1N          | 278670      | 1/60                    |
| 12                         | 240                  | 15  | 277                            | 10   | FAZ-C12/1N          | 278671      | 1/60                    |
| 13                         | 240                  | 15  | 277                            | 10   | FAZ-C13/1N          | 278672      | 1/60                    |
| 15                         | 240                  | 15  | 277                            | 10   | FAZ-C15/1N          | 278673      | 1/60                    |
| 16                         | 240                  | 15  | 277                            | 10   | FAZ-C16/1N          | 278674      | 1/60                    |
| 20                         | 240                  | 15  | 277                            | 10   | FAZ-C20/1N          | 278675      | 1/60                    |
| 25                         | 240                  | 15  | 277                            | 10   | FAZ-C25/1N          | 278676      | 1/60                    |
| 32                         | 240                  | 15  | 277                            | 10   | FAZ-C32/1N          | 278677      | 1/60                    |
| 40                         | 240                  | 15  | 277                            | 5  | FAZ-C40/1N          | 278678      | 1/60                    |
| 50                         | 240                  | 15  | 277                            | 5  | FAZ-C50/1N          | 278679      | 1/60                    |
| 63                         | 240                  | 15  | 277                            | 5  | FAZ-C63/1N          | 278680      | 1/60                    |





# FAZ | Characteristic C

SG07011



| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|

## 2-pole

|      |     |    |          |    |             |        |      |
|------|-----|----|----------|----|-------------|--------|------|
| 0,16 | 415 | 15 | 480Y/277 | 5  | FAZ-C0,16/2 | 278741 | 1/60 |
| 0,25 | 415 | 15 | 480Y/277 | 5  | FAZ-C0,25/2 | 278742 | 1/60 |
| 0,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C0,5/2  | 278743 | 1/60 |
| 0,75 | 415 | 15 | 480Y/277 | 10 | FAZ-C0,75/2 | 278744 | 1/60 |
| 1    | 415 | 15 | 480Y/277 | 10 | FAZ-C1/2    | 278745 | 1/60 |
| 1,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C1,5/2  | 278746 | 1/60 |
| 1,6  | 415 | 15 | 480Y/277 | 10 | FAZ-C1,6/2  | 278747 | 1/60 |
| 2    | 415 | 15 | 480Y/277 | 10 | FAZ-C2/2    | 278748 | 1/60 |
| 2,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C2,5/2  | 278749 | 1/60 |
| 3    | 415 | 15 | 480Y/277 | 10 | FAZ-C3/2    | 278750 | 1/60 |
| 3,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C3,5/2  | 278751 | 1/60 |
| 4    | 415 | 15 | 480Y/277 | 10 | FAZ-C4/2    | 278752 | 1/60 |
| 5    | 415 | 15 | 480Y/277 | 10 | FAZ-C5/2    | 278753 | 1/60 |
| 6    | 415 | 15 | 480Y/277 | 10 | FAZ-C6/2    | 278754 | 1/60 |
| 8    | 415 | 15 | 480Y/277 | 10 | FAZ-C8/2    | 278755 | 1/60 |
| 10   | 415 | 15 | 480Y/277 | 10 | FAZ-C10/2   | 278756 | 1/60 |
| 12   | 415 | 15 | 480Y/277 | 10 | FAZ-C12/2   | 278757 | 1/60 |
| 13   | 415 | 15 | 480Y/277 | 10 | FAZ-C13/2   | 278758 | 1/60 |
| 15   | 415 | 15 | 480Y/277 | 10 | FAZ-C15/2   | 278759 | 1/60 |
| 16   | 415 | 15 | 480Y/277 | 10 | FAZ-C16/2   | 278760 | 1/60 |
| 20   | 415 | 15 | 480Y/277 | 10 | FAZ-C20/2   | 278761 | 1/60 |
| 25   | 415 | 15 | 480Y/277 | 10 | FAZ-C25/2   | 278762 | 1/60 |
| 32   | 415 | 15 | 480Y/277 | 10 | FAZ-C32/2   | 278763 | 1/60 |
| 40   | 415 | 15 | 480Y/277 | 5  | FAZ-C40/2   | 278764 | 1/60 |
| 50   | 415 | 15 | 480Y/277 | 5  | FAZ-C50/2   | 278765 | 1/60 |
| 63   | 415 | 15 | 480Y/277 | 5  | FAZ-C63/2   | 278766 | 1/60 |

SG07111



## 3-pole

|      |     |    |          |    |             |        |      |
|------|-----|----|----------|----|-------------|--------|------|
| 0,16 | 415 | 15 | 480Y/277 | 5  | FAZ-C0,16/3 | 278854 | 1/40 |
| 0,25 | 415 | 15 | 480Y/277 | 5  | FAZ-C0,25/3 | 278855 | 1/40 |
| 0,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C0,5/3  | 278856 | 1/40 |
| 0,75 | 415 | 15 | 480Y/277 | 10 | FAZ-C0,75/3 | 278857 | 1/40 |
| 1    | 415 | 15 | 480Y/277 | 10 | FAZ-C1/3    | 278858 | 1/40 |
| 1,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C1,5/3  | 278859 | 1/40 |
| 1,6  | 415 | 15 | 480Y/277 | 10 | FAZ-C1,6/3  | 278860 | 1/40 |
| 2    | 415 | 15 | 480Y/277 | 10 | FAZ-C2/3    | 278861 | 1/40 |
| 2,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C2,5/3  | 278862 | 1/40 |
| 3    | 415 | 15 | 480Y/277 | 10 | FAZ-C3/3    | 278863 | 1/40 |
| 3,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C3,5/3  | 278864 | 1/40 |
| 4    | 415 | 15 | 480Y/277 | 10 | FAZ-C4/3    | 278865 | 1/40 |
| 5    | 415 | 15 | 480Y/277 | 10 | FAZ-C5/3    | 278866 | 1/40 |
| 6    | 415 | 15 | 480Y/277 | 10 | FAZ-C6/3    | 278867 | 1/40 |
| 8    | 415 | 15 | 480Y/277 | 10 | FAZ-C8/3    | 278868 | 1/40 |
| 10   | 415 | 15 | 480Y/277 | 10 | FAZ-C10/3   | 278869 | 1/40 |
| 12   | 415 | 15 | 480Y/277 | 10 | FAZ-C12/3   | 278870 | 1/40 |
| 13   | 415 | 15 | 480Y/277 | 10 | FAZ-C13/3   | 278871 | 1/40 |
| 15   | 415 | 15 | 480Y/277 | 10 | FAZ-C15/3   | 278872 | 1/40 |
| 16   | 415 | 15 | 480Y/277 | 10 | FAZ-C16/3   | 278873 | 1/40 |
| 20   | 415 | 15 | 480Y/277 | 10 | FAZ-C20/3   | 278874 | 1/40 |
| 25   | 415 | 15 | 480Y/277 | 10 | FAZ-C25/3   | 278875 | 1/40 |
| 32   | 415 | 15 | 480Y/277 | 10 | FAZ-C32/3   | 278876 | 1/40 |
| 40   | 415 | 15 | 480Y/277 | 5  | FAZ-C40/3   | 278877 | 1/40 |
| 50   | 415 | 15 | 480Y/277 | 5  | FAZ-C50/3   | 278878 | 1/40 |
| 63   | 415 | 15 | 480Y/277 | 5  | FAZ-C63/3   | 278879 | 1/40 |

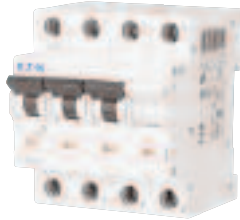






# FAZ | Characteristic C

SG07311

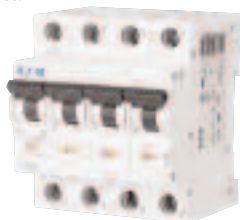


| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|

## 3+N-pole

|      |     |    |          |    |              |        |      |
|------|-----|----|----------|----|--------------|--------|------|
| 0,16 | 415 | 15 | 480Y/277 | 5  | FAZ-C0,16/3N | 278956 | 1/30 |
| 0,25 | 415 | 15 | 480Y/277 | 5  | FAZ-C0,25/3N | 278957 | 1/30 |
| 0,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C0,5/3N  | 278958 | 1/30 |
| 0,75 | 415 | 15 | 480Y/277 | 10 | FAZ-C0,75/3N | 278959 | 1/30 |
| 1    | 415 | 15 | 480Y/277 | 10 | FAZ-C1/3N    | 278960 | 1/30 |
| 1,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C1,5/3N  | 278961 | 1/30 |
| 1,6  | 415 | 15 | 480Y/277 | 10 | FAZ-C1,6/3N  | 278962 | 1/30 |
| 2    | 415 | 15 | 480Y/277 | 10 | FAZ-C2/3N    | 278963 | 1/30 |
| 2,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C2,5/3N  | 278964 | 1/30 |
| 3    | 415 | 15 | 480Y/277 | 10 | FAZ-C3/3N    | 278965 | 1/30 |
| 3,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C3,5/3N  | 278966 | 1/30 |
| 4    | 415 | 15 | 480Y/277 | 10 | FAZ-C4/3N    | 278967 | 1/30 |
| 5    | 415 | 15 | 480Y/277 | 10 | FAZ-C5/3N    | 278968 | 1/30 |
| 6    | 415 | 15 | 480Y/277 | 10 | FAZ-C6/3N    | 278969 | 1/30 |
| 8    | 415 | 15 | 480Y/277 | 10 | FAZ-C8/3N    | 278970 | 1/30 |
| 10   | 415 | 15 | 480Y/277 | 10 | FAZ-C10/3N   | 278971 | 1/30 |
| 12   | 415 | 15 | 480Y/277 | 10 | FAZ-C12/3N   | 278972 | 1/30 |
| 13   | 415 | 15 | 480Y/277 | 10 | FAZ-C13/3N   | 278973 | 1/30 |
| 15   | 415 | 15 | 480Y/277 | 10 | FAZ-C15/3N   | 278974 | 1/30 |
| 16   | 415 | 15 | 480Y/277 | 10 | FAZ-C16/3N   | 278975 | 1/30 |
| 20   | 415 | 15 | 480Y/277 | 10 | FAZ-C20/3N   | 278976 | 1/30 |
| 25   | 415 | 15 | 480Y/277 | 10 | FAZ-C25/3N   | 278977 | 1/30 |
| 32   | 415 | 15 | 480Y/277 | 10 | FAZ-C32/3N   | 278978 | 1/30 |
| 40   | 415 | 15 | 480Y/277 | 5  | FAZ-C40/3N   | 278979 | 1/30 |
| 50   | 415 | 15 | 480Y/277 | 5  | FAZ-C50/3N   | 278980 | 1/30 |
| 63   | 415 | 15 | 480Y/277 | 5  | FAZ-C63/3N   | 278981 | 1/30 |

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## 4-pole

|      |     |    |          |    |             |        |      |
|------|-----|----|----------|----|-------------|--------|------|
| 0,16 | 415 | 15 | 480Y/277 | 5  | FAZ-C0,16/4 | 279042 | 1/30 |
| 0,25 | 415 | 15 | 480Y/277 | 5  | FAZ-C0,25/4 | 279043 | 1/30 |
| 0,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C0,5/4  | 279044 | 1/30 |
| 0,75 | 415 | 15 | 480Y/277 | 10 | FAZ-C0,75/4 | 279045 | 1/30 |
| 1    | 415 | 15 | 480Y/277 | 10 | FAZ-C1/4    | 279046 | 1/30 |
| 1,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C1,5/4  | 279047 | 1/30 |
| 1,6  | 415 | 15 | 480Y/277 | 10 | FAZ-C1,6/4  | 279048 | 1/30 |
| 2    | 415 | 15 | 480Y/277 | 10 | FAZ-C2/4    | 279049 | 1/30 |
| 2,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C2,5/4  | 279050 | 1/30 |
| 3    | 415 | 15 | 480Y/277 | 10 | FAZ-C3/4    | 279051 | 1/30 |
| 3,5  | 415 | 15 | 480Y/277 | 10 | FAZ-C3,5/4  | 279052 | 1/30 |
| 4    | 415 | 15 | 480Y/277 | 10 | FAZ-C4/4    | 279053 | 1/30 |
| 5    | 415 | 15 | 480Y/277 | 10 | FAZ-C5/4    | 279054 | 1/30 |
| 6    | 415 | 15 | 480Y/277 | 10 | FAZ-C6/4    | 279055 | 1/30 |
| 8    | 415 | 15 | 480Y/277 | 10 | FAZ-C8/4    | 279056 | 1/30 |
| 10   | 415 | 15 | 480Y/277 | 10 | FAZ-C10/4   | 279057 | 1/30 |
| 12   | 415 | 15 | 480Y/277 | 10 | FAZ-C12/4   | 279058 | 1/30 |
| 13   | 415 | 15 | 480Y/277 | 10 | FAZ-C13/4   | 279059 | 1/30 |
| 15   | 415 | 15 | 480Y/277 | 10 | FAZ-C15/4   | 279060 | 1/30 |
| 16   | 415 | 15 | 480Y/277 | 10 | FAZ-C16/4   | 279061 | 1/30 |
| 20   | 415 | 15 | 480Y/277 | 10 | FAZ-C20/4   | 279062 | 1/30 |
| 25   | 415 | 15 | 480Y/277 | 10 | FAZ-C25/4   | 279063 | 1/30 |
| 32   | 415 | 15 | 480Y/277 | 10 | FAZ-C32/4   | 279064 | 1/30 |
| 40   | 415 | 15 | 480Y/277 | 5  | FAZ-C40/4   | 279065 | 1/30 |
| 50   | 415 | 15 | 480Y/277 | 5  | FAZ-C50/4   | 279066 | 1/30 |
| 63   | 415 | 15 | 480Y/277 | 5  | FAZ-C63/4   | 279067 | 1/30 |





# FAZ | Characteristic D

## FAZ Miniature Circuit Breakers (MCBs) Characteristic D

SG06811



| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|

### 1-pole

|     |         |    |     |   |            |        |        |
|-----|---------|----|-----|---|------------|--------|--------|
| 0,5 | 240/415 | 15 | 277 | 5 | FAZ-D0,5/1 | 278568 | 12/120 |
| 1   | 240/415 | 15 | 277 | 5 | FAZ-D1/1   | 278569 | 12/120 |
| 1,5 | 240/415 | 15 | 277 | 5 | FAZ-D1,5/1 | 278570 | 12/120 |
| 1,6 | 240/415 | 15 | 277 | 5 | FAZ-D1,6/1 | 278571 | 12/120 |
| 2   | 240/415 | 15 | 277 | 5 | FAZ-D2/1   | 278572 | 12/120 |
| 2,5 | 240/415 | 15 | 277 | 5 | FAZ-D2,5/1 | 278573 | 12/120 |
| 3   | 240/415 | 15 | 277 | 5 | FAZ-D3/1   | 278574 | 12/120 |
| 3,5 | 240/415 | 15 | 277 | 5 | FAZ-D3,5/1 | 278575 | 12/120 |
| 4   | 240/415 | 15 | 277 | 5 | FAZ-D4/1   | 278576 | 12/120 |
| 5   | 240/415 | 15 | 277 | 5 | FAZ-D5/1   | 278577 | 12/120 |
| 6   | 240/415 | 15 | 277 | 5 | FAZ-D6/1   | 278578 | 12/120 |
| 8   | 240/415 | 15 | 277 | 5 | FAZ-D8/1   | 278579 | 12/120 |
| 10  | 240/415 | 15 | 277 | 5 | FAZ-D10/1  | 278580 | 12/120 |
| 12  | 240/415 | 15 | 277 | 5 | FAZ-D12/1  | 278581 | 12/120 |
| 13  | 240/415 | 15 | 277 | 5 | FAZ-D13/1  | 278582 | 12/120 |
| 15  | 240/415 | 15 | 277 | 5 | FAZ-D15/1  | 278583 | 12/120 |
| 16  | 240/415 | 15 | 277 | 5 | FAZ-D16/1  | 278584 | 12/120 |
| 20  | 240/415 | 15 | 277 | 5 | FAZ-D20/1  | 278585 | 12/120 |
| 25  | 240/415 | 15 | 277 | 5 | FAZ-D25/1  | 278586 | 12/120 |
| 32  | 240/415 | 15 | 277 | 5 | FAZ-D32/1  | 278587 | 12/120 |
| 40  | 240/415 | 15 | 277 | 5 | FAZ-D40/1  | 278588 | 12/120 |
| 50  | 240/415 | 10 | -   | - | FAZ-D50/1  | 115370 | 12/120 |
| 63  | 240/415 | 10 | -   | - | FAZ-D63/1  | 115371 | 12/120 |

SG06811



### 1+N-pole

|     |     |    |     |   |             |        |      |
|-----|-----|----|-----|---|-------------|--------|------|
| 0,5 | 240 | 15 | 277 | 5 | FAZ-D0,5/1N | 278681 | 1/60 |
| 1   | 240 | 15 | 277 | 5 | FAZ-D1/1N   | 278682 | 1/60 |
| 1,5 | 240 | 15 | 277 | 5 | FAZ-D1,5/1N | 278683 | 1/60 |
| 1,6 | 240 | 15 | 277 | 5 | FAZ-D1,6/1N | 278684 | 1/60 |
| 2   | 240 | 15 | 277 | 5 | FAZ-D2/1N   | 278685 | 1/60 |
| 2,5 | 240 | 15 | 277 | 5 | FAZ-D2,5/1N | 278686 | 1/60 |
| 3   | 240 | 15 | 277 | 5 | FAZ-D3/1N   | 278687 | 1/60 |
| 3,5 | 240 | 15 | 277 | 5 | FAZ-D3,5/1N | 278688 | 1/60 |
| 4   | 240 | 15 | 277 | 5 | FAZ-D4/1N   | 278689 | 1/60 |
| 5   | 240 | 15 | 277 | 5 | FAZ-D5/1N   | 278690 | 1/60 |
| 6   | 240 | 15 | 277 | 5 | FAZ-D6/1N   | 278691 | 1/60 |
| 8   | 240 | 15 | 277 | 5 | FAZ-D8/1N   | 278692 | 1/60 |
| 10  | 240 | 15 | 277 | 5 | FAZ-D10/1N  | 278693 | 1/60 |
| 12  | 240 | 15 | 277 | 5 | FAZ-D12/1N  | 278694 | 1/60 |
| 13  | 240 | 15 | 277 | 5 | FAZ-D13/1N  | 278695 | 1/60 |
| 15  | 240 | 15 | 277 | 5 | FAZ-D15/1N  | 278696 | 1/60 |
| 16  | 240 | 15 | 277 | 5 | FAZ-D16/1N  | 278697 | 1/60 |
| 20  | 240 | 15 | 277 | 5 | FAZ-D20/1N  | 278698 | 1/60 |
| 25  | 240 | 15 | 277 | 5 | FAZ-D25/1N  | 278699 | 1/60 |
| 32  | 240 | 15 | 277 | 5 | FAZ-D32/1N  | 278700 | 1/60 |
| 40  | 240 | 15 | 277 | 5 | FAZ-D40/1N  | 278701 | 1/60 |
| 50  | 240 | 10 | -   | - | FAZ-D50/1N  | 115378 | 1/60 |
| 63  | 240 | 10 | -   | - | FAZ-D63/1N  | 115379 | 1/60 |





# FAZ | Characteristic D

SG07011

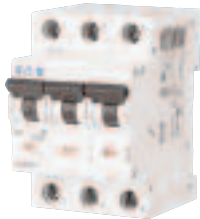


| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|

## 2-pole

|     |     |    |          |   |            |        |      |
|-----|-----|----|----------|---|------------|--------|------|
| 0,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D0,5/2 | 278767 | 1/60 |
| 1   | 415 | 15 | 480Y/277 | 5 | FAZ-D1/2   | 278768 | 1/60 |
| 1,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D1,5/2 | 278769 | 1/60 |
| 1,6 | 415 | 15 | 480Y/277 | 5 | FAZ-D1,6/2 | 278770 | 1/60 |
| 2   | 415 | 15 | 480Y/277 | 5 | FAZ-D2/2   | 278771 | 1/60 |
| 2,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D2,5/2 | 278772 | 1/60 |
| 3   | 415 | 15 | 480Y/277 | 5 | FAZ-D3/2   | 278773 | 1/60 |
| 3,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D3,5/2 | 278774 | 1/60 |
| 4   | 415 | 15 | 480Y/277 | 5 | FAZ-D4/2   | 278775 | 1/60 |
| 5   | 415 | 15 | 480Y/277 | 5 | FAZ-D5/2   | 278776 | 1/60 |
| 6   | 415 | 15 | 480Y/277 | 5 | FAZ-D6/2   | 278777 | 1/60 |
| 8   | 415 | 15 | 480Y/277 | 5 | FAZ-D8/2   | 278778 | 1/60 |
| 10  | 415 | 15 | 480Y/277 | 5 | FAZ-D10/2  | 278779 | 1/60 |
| 12  | 415 | 15 | 480Y/277 | 5 | FAZ-D12/2  | 278780 | 1/60 |
| 13  | 415 | 15 | 480Y/277 | 5 | FAZ-D13/2  | 278781 | 1/60 |
| 15  | 415 | 15 | 480Y/277 | 5 | FAZ-D15/2  | 278782 | 1/60 |
| 16  | 415 | 15 | 480Y/277 | 5 | FAZ-D16/2  | 278783 | 1/60 |
| 20  | 415 | 15 | 480Y/277 | 5 | FAZ-D20/2  | 278784 | 1/60 |
| 25  | 415 | 15 | 480Y/277 | 5 | FAZ-D25/2  | 278785 | 1/60 |
| 32  | 415 | 15 | 480Y/277 | 5 | FAZ-D32/2  | 278786 | 1/60 |
| 40  | 415 | 15 | 480Y/277 | 5 | FAZ-D40/2  | 278787 | 1/60 |
| 50  | 415 | 10 | -        | - | FAZ-D50/2  | 115372 | 1/60 |
| 63  | 415 | 10 | -        | - | FAZ-D63/2  | 115373 | 1/60 |

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## 3-pole

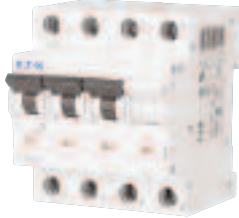
|     |     |    |          |   |            |        |      |
|-----|-----|----|----------|---|------------|--------|------|
| 0,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D0,5/3 | 278880 | 1/40 |
| 1   | 415 | 15 | 480Y/277 | 5 | FAZ-D1/3   | 278881 | 1/40 |
| 1,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D1,5/3 | 278882 | 1/40 |
| 1,6 | 415 | 15 | 480Y/277 | 5 | FAZ-D1,6/3 | 278883 | 1/40 |
| 2   | 415 | 15 | 480Y/277 | 5 | FAZ-D2/3   | 278884 | 1/40 |
| 2,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D2,5/3 | 278885 | 1/40 |
| 3   | 415 | 15 | 480Y/277 | 5 | FAZ-D3/3   | 278886 | 1/40 |
| 3,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D3,5/3 | 278887 | 1/40 |
| 4   | 415 | 15 | 480Y/277 | 5 | FAZ-D4/3   | 278888 | 1/40 |
| 5   | 415 | 15 | 480Y/277 | 5 | FAZ-D5/3   | 278889 | 1/40 |
| 6   | 415 | 15 | 480Y/277 | 5 | FAZ-D6/3   | 278890 | 1/40 |
| 8   | 415 | 15 | 480Y/277 | 5 | FAZ-D8/3   | 278891 | 1/40 |
| 10  | 415 | 15 | 480Y/277 | 5 | FAZ-D10/3  | 278892 | 1/40 |
| 12  | 415 | 15 | 480Y/277 | 5 | FAZ-D12/3  | 278893 | 1/40 |
| 13  | 415 | 15 | 480Y/277 | 5 | FAZ-D13/3  | 278894 | 1/40 |
| 15  | 415 | 15 | 480Y/277 | 5 | FAZ-D15/3  | 278895 | 1/40 |
| 16  | 415 | 15 | 480Y/277 | 5 | FAZ-D16/3  | 278896 | 1/40 |
| 20  | 415 | 15 | 480Y/277 | 5 | FAZ-D20/3  | 278897 | 1/40 |
| 25  | 415 | 15 | 480Y/277 | 5 | FAZ-D25/3  | 278898 | 1/40 |
| 32  | 415 | 15 | 480Y/277 | 5 | FAZ-D32/3  | 278899 | 1/40 |
| 40  | 415 | 15 | 480Y/277 | 5 | FAZ-D40/3  | 278900 | 1/40 |
| 50  | 415 | 10 | -        | - | FAZ-D50/3  | 115374 | 1/40 |
| 63  | 415 | 10 | -        | - | FAZ-D63/3  | 115375 | 1/40 |





# FAZ | Characteristic D

SG07311

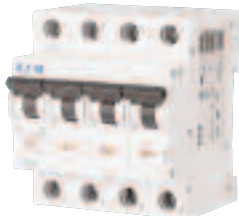


| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|

## 3+N-pole

|     |     |    |          |   |             |        |      |
|-----|-----|----|----------|---|-------------|--------|------|
| 0,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D,5/3N  | 278982 | 1/30 |
| 1   | 415 | 15 | 480Y/277 | 5 | FAZ-D1,3/3N | 278983 | 1/30 |
| 1,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D1,5/3N | 278984 | 1/30 |
| 1,6 | 415 | 15 | 480Y/277 | 5 | FAZ-D1,6/3N | 278985 | 1/30 |
| 2   | 415 | 15 | 480Y/277 | 5 | FAZ-D2/3N   | 278986 | 1/30 |
| 2,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D2,5/3N | 278987 | 1/30 |
| 3   | 415 | 15 | 480Y/277 | 5 | FAZ-D3/3N   | 278988 | 1/30 |
| 3,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D3,5/3N | 278989 | 1/30 |
| 4   | 415 | 15 | 480Y/277 | 5 | FAZ-D4/3N   | 278990 | 1/30 |
| 5   | 415 | 15 | 480Y/277 | 5 | FAZ-D5/3N   | 278991 | 1/30 |
| 6   | 415 | 15 | 480Y/277 | 5 | FAZ-D6/3N   | 278992 | 1/30 |
| 8   | 415 | 15 | 480Y/277 | 5 | FAZ-D8/3N   | 278993 | 1/30 |
| 10  | 415 | 15 | 480Y/277 | 5 | FAZ-D10/3N  | 278994 | 1/30 |
| 12  | 415 | 15 | 480Y/277 | 5 | FAZ-D12/3N  | 278995 | 1/30 |
| 13  | 415 | 15 | 480Y/277 | 5 | FAZ-D13/3N  | 278996 | 1/30 |
| 15  | 415 | 15 | 480Y/277 | 5 | FAZ-D15/3N  | 278997 | 1/30 |
| 16  | 415 | 15 | 480Y/277 | 5 | FAZ-D16/3N  | 278998 | 1/30 |
| 20  | 415 | 15 | 480Y/277 | 5 | FAZ-D20/3N  | 278999 | 1/30 |
| 25  | 415 | 15 | 480Y/277 | 5 | FAZ-D25/3N  | 279000 | 1/30 |
| 32  | 415 | 15 | 480Y/277 | 5 | FAZ-D32/3N  | 279001 | 1/30 |
| 40  | 415 | 15 | 480Y/277 | 5 | FAZ-D40/3N  | 279002 | 1/30 |
| 50  | 415 | 10 | -        | - | FAZ-D50/3N  | 115380 | 1/30 |
| 63  | 415 | 10 | -        | - | FAZ-D63/3N  | 115381 | 1/30 |

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## 4-pole

|     |     |    |          |   |            |        |      |
|-----|-----|----|----------|---|------------|--------|------|
| 0,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D0,5/4 | 279068 | 1/30 |
| 1   | 415 | 15 | 480Y/277 | 5 | FAZ-D1/4   | 279069 | 1/30 |
| 1,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D1,5/4 | 279070 | 1/30 |
| 1,6 | 415 | 15 | 480Y/277 | 5 | FAZ-D1,6/4 | 279071 | 1/30 |
| 2   | 415 | 15 | 480Y/277 | 5 | FAZ-D2/4   | 279072 | 1/30 |
| 2,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D2,5/4 | 279073 | 1/30 |
| 3   | 415 | 15 | 480Y/277 | 5 | FAZ-D3/4   | 279074 | 1/30 |
| 3,5 | 415 | 15 | 480Y/277 | 5 | FAZ-D3,5/4 | 279075 | 1/30 |
| 4   | 415 | 15 | 480Y/277 | 5 | FAZ-D4/4   | 279076 | 1/30 |
| 5   | 415 | 15 | 480Y/277 | 5 | FAZ-D5/4   | 279077 | 1/30 |
| 6   | 415 | 15 | 480Y/277 | 5 | FAZ-D6/4   | 279078 | 1/30 |
| 8   | 415 | 15 | 480Y/277 | 5 | FAZ-D8/4   | 279079 | 1/30 |
| 10  | 415 | 15 | 480Y/277 | 5 | FAZ-D10/4  | 279080 | 1/30 |
| 12  | 415 | 15 | 480Y/277 | 5 | FAZ-D12/4  | 279081 | 1/30 |
| 13  | 415 | 15 | 480Y/277 | 5 | FAZ-D13/4  | 279082 | 1/30 |
| 15  | 415 | 15 | 480Y/277 | 5 | FAZ-D15/4  | 279083 | 1/30 |
| 16  | 415 | 15 | 480Y/277 | 5 | FAZ-D16/4  | 279084 | 1/30 |
| 20  | 415 | 15 | 480Y/277 | 5 | FAZ-D20/4  | 279085 | 1/30 |
| 25  | 415 | 15 | 480Y/277 | 5 | FAZ-D25/4  | 279086 | 1/30 |
| 32  | 415 | 15 | 480Y/277 | 5 | FAZ-D32/4  | 279087 | 1/30 |
| 40  | 415 | 15 | 480Y/277 | 5 | FAZ-D40/4  | 279088 | 1/30 |
| 50  | 415 | 10 | -        | - | FAZ-D50/4  | 115376 | 1/30 |
| 63  | 415 | 10 | -        | - | FAZ-D63/4  | 115377 | 1/30 |





# FAZ | Characteristic K

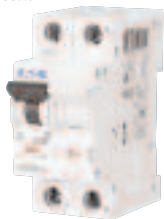
## FAZ Miniature Circuit Breakers (MCBs) Characteristic K

|               | Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|---------------|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
| <b>1-pole</b> |                            |                      |   |                                |  |                     |             |                         |
|               | 0,5                        | 240/415              | 15  | 277                            | 5  | FAZ-K0,5/1          | 278589      | 12/120                  |
|               | 1                          | 240/415              | 15  | 277                            | 5  | FAZ-K1/1            | 278590      | 12/120                  |
|               | 1,6                        | 240/415              | 15  | 277                            | 5  | FAZ-K1,6/1          | 278591      | 12/120                  |
|               | 2                          | 240/415              | 15  | 277                            | 5  | FAZ-K2/1            | 278592      | 12/120                  |
|               | 3                          | 240/415              | 15  | 277                            | 5  | FAZ-K3/1            | 278593      | 12/120                  |
|               | 4                          | 240/415              | 15  | 277                            | 5  | FAZ-K4/1            | 278594      | 12/120                  |
|               | 6                          | 240/415              | 15  | 277                            | 5  | FAZ-K6/1            | 278595      | 12/120                  |
|               | 8                          | 240/415              | 15  | 277                            | 5  | FAZ-K8/1            | 278596      | 12/120                  |
|               | 10                         | 240/415              | 15  | 277                            | 5  | FAZ-K10/1           | 278597      | 12/120                  |
|               | 13                         | 240/415              | 15  | 277                            | 5  | FAZ-K13/1           | 278598      | 12/120                  |
|               | 16                         | 240/415              | 15  | 277                            | 5  | FAZ-K16/1           | 278599      | 12/120                  |
|               | 20                         | 240/415              | 15  | 277                            | 5  | FAZ-K20/1           | 278600      | 12/120                  |
|               | 25                         | 240/415              | 15  | 277                            | 5  | FAZ-K25/1           | 278601      | 12/120                  |
|               | 32                         | 240/415              | 15  | 277                            | 5  | FAZ-K32/1           | 278602      | 12/120                  |
|               | 40                         | 240/415              | 15  | 277                            | 5  | FAZ-K40/1           | 278603      | 12/120                  |
|               | 50                         | 240/415              | 15  | 277                            | 5  | FAZ-K50/1           | 278604      | 12/120                  |
|               | 63                         | 240/415              | 15  | 277                            | 5  | FAZ-K63/1           | 278605      | 12/120                  |

SG06811



SG06811



### 1+N-pole

|  |     |     |    |     |   |             |        |      |
|--|-----|-----|----|-----|---|-------------|--------|------|
|  | 0,5 | 240 | 15 | 277 | 5 | FAZ-K0,5/1N | 278702 | 1/60 |
|  | 1   | 240 | 15 | 277 | 5 | FAZ-K1/1N   | 278703 | 1/60 |
|  | 1,6 | 240 | 15 | 277 | 5 | FAZ-K1,6/1N | 278704 | 1/60 |
|  | 2   | 240 | 15 | 277 | 5 | FAZ-K2/1N   | 278705 | 1/60 |
|  | 3   | 240 | 15 | 277 | 5 | FAZ-K3/1N   | 278706 | 1/60 |
|  | 4   | 240 | 15 | 277 | 5 | FAZ-K4/1N   | 278707 | 1/60 |
|  | 6   | 240 | 15 | 277 | 5 | FAZ-K6/1N   | 278708 | 1/60 |
|  | 8   | 240 | 15 | 277 | 5 | FAZ-K8/1N   | 278709 | 1/60 |
|  | 10  | 240 | 15 | 277 | 5 | FAZ-K10/1N  | 278710 | 1/60 |
|  | 13  | 240 | 15 | 277 | 5 | FAZ-K13/1N  | 278711 | 1/60 |
|  | 16  | 240 | 15 | 277 | 5 | FAZ-K16/1N  | 278712 | 1/60 |
|  | 20  | 240 | 15 | 277 | 5 | FAZ-K20/1N  | 278713 | 1/60 |
|  | 25  | 240 | 15 | 277 | 5 | FAZ-K25/1N  | 278714 | 1/60 |
|  | 32  | 240 | 15 | 277 | 5 | FAZ-K32/1N  | 278715 | 1/60 |
|  | 40  | 240 | 15 | 277 | 5 | FAZ-K40/1N  | 278716 | 1/60 |
|  | 50  | 240 | 15 | 277 | 5 | FAZ-K50/1N  | 278717 | 1/60 |
|  | 63  | 240 | 15 | 277 | 5 | FAZ-K63/1N  | 278718 | 1/60 |





# FAZ | Characteristic K

SG07011

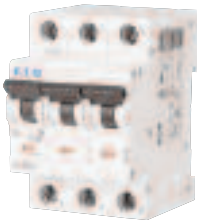


| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|

## 2-pole

|     |     |    |          |   |            |        |      |
|-----|-----|----|----------|---|------------|--------|------|
| 0,5 | 415 | 15 | 480Y/277 | 5 | FAZ-K0,5/2 | 278788 | 1/60 |
| 1   | 415 | 15 | 480Y/277 | 5 | FAZ-K1/2   | 278789 | 1/60 |
| 1,6 | 415 | 15 | 480Y/277 | 5 | FAZ-K1,6/2 | 278790 | 1/60 |
| 2   | 415 | 15 | 480Y/277 | 5 | FAZ-K2/2   | 278791 | 1/60 |
| 3   | 415 | 15 | 480Y/277 | 5 | FAZ-K3/2   | 278792 | 1/60 |
| 4   | 415 | 15 | 480Y/277 | 5 | FAZ-K4/2   | 278793 | 1/60 |
| 6   | 415 | 15 | 480Y/277 | 5 | FAZ-K6/2   | 278794 | 1/60 |
| 8   | 415 | 15 | 480Y/277 | 5 | FAZ-K8/2   | 278795 | 1/60 |
| 10  | 415 | 15 | 480Y/277 | 5 | FAZ-K10/2  | 278796 | 1/60 |
| 13  | 415 | 15 | 480Y/277 | 5 | FAZ-K13/2  | 278797 | 1/60 |
| 16  | 415 | 15 | 480Y/277 | 5 | FAZ-K16/2  | 278798 | 1/60 |
| 20  | 415 | 15 | 480Y/277 | 5 | FAZ-K20/2  | 278799 | 1/60 |
| 25  | 415 | 15 | 480Y/277 | 5 | FAZ-K25/2  | 278800 | 1/60 |
| 32  | 415 | 15 | 480Y/277 | 5 | FAZ-K32/2  | 278801 | 1/60 |
| 40  | 415 | 15 | 480Y/277 | 5 | FAZ-K40/2  | 278802 | 1/60 |
| 50  | 415 | 15 | 480Y/277 | 5 | FAZ-K50/2  | 278803 | 1/60 |
| 63  | 415 | 15 | 480Y/277 | 5 | FAZ-K63/2  | 278804 | 1/60 |

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## 3-pole

|     |     |    |          |   |            |        |      |
|-----|-----|----|----------|---|------------|--------|------|
| 0,5 | 415 | 15 | 480Y/277 | 5 | FAZ-K0,5/3 | 278901 | 1/40 |
| 1   | 415 | 15 | 480Y/277 | 5 | FAZ-K1/3   | 278902 | 1/40 |
| 1,6 | 415 | 15 | 480Y/277 | 5 | FAZ-K1,6/3 | 278903 | 1/40 |
| 2   | 415 | 15 | 480Y/277 | 5 | FAZ-K2/3   | 278904 | 1/40 |
| 3   | 415 | 15 | 480Y/277 | 5 | FAZ-K3/3   | 278905 | 1/40 |
| 4   | 415 | 15 | 480Y/277 | 5 | FAZ-K4/3   | 278906 | 1/40 |
| 6   | 415 | 15 | 480Y/277 | 5 | FAZ-K6/3   | 278907 | 1/40 |
| 8   | 415 | 15 | 480Y/277 | 5 | FAZ-K8/3   | 278908 | 1/40 |
| 10  | 415 | 15 | 480Y/277 | 5 | FAZ-K10/3  | 278909 | 1/40 |
| 13  | 415 | 15 | 480Y/277 | 5 | FAZ-K13/3  | 278910 | 1/40 |
| 16  | 415 | 15 | 480Y/277 | 5 | FAZ-K16/3  | 278911 | 1/40 |
| 20  | 415 | 15 | 480Y/277 | 5 | FAZ-K20/3  | 278912 | 1/40 |
| 25  | 415 | 15 | 480Y/277 | 5 | FAZ-K25/3  | 278913 | 1/40 |
| 32  | 415 | 15 | 480Y/277 | 5 | FAZ-K32/3  | 278914 | 1/40 |
| 40  | 415 | 15 | 480Y/277 | 5 | FAZ-K40/3  | 278915 | 1/40 |
| 50  | 415 | 15 | 480Y/277 | 5 | FAZ-K50/3  | 278916 | 1/40 |
| 63  | 415 | 15 | 480Y/277 | 5 | FAZ-K63/3  | 278917 | 1/40 |

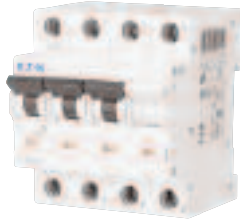




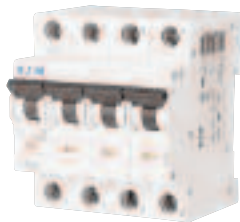
# FAZ | Characteristic K

|                 | Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|-----------------|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
| <b>3+N-pole</b> |                            |                      |   |                                |  |                     |             |                         |
| 0,5             | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K0,5/3N         | 279003      | 1/30                    |
| 1               | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K1/3N           | 279004      | 1/30                    |
| 1,6             | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K1,6/3N         | 279005      | 1/30                    |
| 2               | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K2/3N           | 279006      | 1/30                    |
| 3               | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K3/3N           | 279007      | 1/30                    |
| 4               | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K4/3N           | 279008      | 1/30                    |
| 6               | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K6/3N           | 279009      | 1/30                    |
| 8               | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K8/3N           | 279010      | 1/30                    |
| 10              | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K10/3N          | 279011      | 1/30                    |
| 13              | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K13/3N          | 279012      | 1/30                    |
| 16              | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K16/3N          | 279013      | 1/30                    |
| 20              | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K20/3N          | 279014      | 1/30                    |
| 25              | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K25/3N          | 279015      | 1/30                    |
| 32              | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K32/3N          | 279016      | 1/30                    |
| 40              | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K40/3N          | 279017      | 1/30                    |
| 50              | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K50/3N          | 279018      | 1/30                    |
| 63              | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-K63/3N          | 279019      | 1/30                    |

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SG07211



|               |     |    |          |   |  |            |        |      |
|---------------|-----|----|----------|---|--|------------|--------|------|
| <b>4-pole</b> |     |    |          |   |  |            |        |      |
| 0,5           | 415 | 15 | 480Y/277 | 5 |  | FAZ-K0,5/4 | 279089 | 1/30 |
| 1             | 415 | 15 | 480Y/277 | 5 |  | FAZ-K1/4   | 279090 | 1/30 |
| 1,6           | 415 | 15 | 480Y/277 | 5 |  | FAZ-K1,6/4 | 279091 | 1/30 |
| 2             | 415 | 15 | 480Y/277 | 5 |  | FAZ-K2/4   | 279092 | 1/30 |
| 3             | 415 | 15 | 480Y/277 | 5 |  | FAZ-K3/4   | 279093 | 1/30 |
| 4             | 415 | 15 | 480Y/277 | 5 |  | FAZ-K4/4   | 279094 | 1/30 |
| 6             | 415 | 15 | 480Y/277 | 5 |  | FAZ-K6/4   | 279095 | 1/30 |
| 8             | 415 | 15 | 480Y/277 | 5 |  | FAZ-K8/4   | 279096 | 1/30 |
| 10            | 415 | 15 | 480Y/277 | 5 |  | FAZ-K10/4  | 279097 | 1/30 |
| 13            | 415 | 15 | 480Y/277 | 5 |  | FAZ-K13/4  | 279098 | 1/30 |
| 16            | 415 | 15 | 480Y/277 | 5 |  | FAZ-K16/4  | 279099 | 1/30 |
| 20            | 415 | 15 | 480Y/277 | 5 |  | FAZ-K20/4  | 279100 | 1/30 |
| 25            | 415 | 15 | 480Y/277 | 5 |  | FAZ-K25/4  | 279101 | 1/30 |
| 32            | 415 | 15 | 480Y/277 | 5 |  | FAZ-K32/4  | 279102 | 1/30 |
| 40            | 415 | 15 | 480Y/277 | 5 |  | FAZ-K40/4  | 279103 | 1/30 |
| 50            | 415 | 15 | 480Y/277 | 5 |  | FAZ-K50/4  | 279104 | 1/30 |
| 63            | 415 | 15 | 480Y/277 | 5 |  | FAZ-K63/4  | 279105 | 1/30 |





# FAZ | Characteristic S

## FAZ Miniature Circuit Breakers (MCBs) Characteristic S

|               | Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|---------------|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
| <b>1-pole</b> |                            |                      |   |                                |  |                     |             |                         |
| 1             | 240/415                    | 10                   | 277   | 5                              |  | FAZ-S1/1            | 278606      | 12/120                  |
| 2             | 240/415                    | 10                   | 277   | 5                              |  | FAZ-S2/1            | 278607      | 12/120                  |
| 3             | 240/415                    | 10                   | 277   | 5                              |  | FAZ-S3/1            | 278608      | 12/120                  |
| 4             | 240/415                    | 10                   | 277   | 5                              |  | FAZ-S4/1            | 278609      | 12/120                  |
| 6             | 240/415                    | 10                   | 277   | 5                              |  | FAZ-S6/1            | 278610      | 12/120                  |
| 10            | 240/415                    | 10                   | 277   | 5                              |  | FAZ-S10/1           | 278611      | 12/120                  |
| 16            | 240/415                    | 10                   | 277   | 5                              |  | FAZ-S16/1           | 278612      | 12/120                  |
| 20            | 240/415                    | 10                   | 277   | 5                              |  | FAZ-S20/1           | 278613      | 12/120                  |
| 25            | 240/415                    | 10                   | 277   | 5                              |  | FAZ-S25/1           | 278614      | 12/120                  |
| 32            | 240/415                    | 10                   | 277   | 5                              |  | FAZ-S32/1           | 278615      | 12/120                  |
| 40            | 240/415                    | 10                   | 277   | 5                              |  | FAZ-S40/1           | 278616      | 12/120                  |

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SG07011



### 2-pole

|    |     |    |          |   |  |           |        |      |
|----|-----|----|----------|---|--|-----------|--------|------|
| 1  | 415 | 10 | 480Y/277 | 5 |  | FAZ-S1/2  | 278805 | 1/60 |
| 2  | 415 | 10 | 480Y/277 | 5 |  | FAZ-S2/2  | 278806 | 1/60 |
| 3  | 415 | 10 | 480Y/277 | 5 |  | FAZ-S3/2  | 278807 | 1/60 |
| 4  | 415 | 10 | 480Y/277 | 5 |  | FAZ-S4/2  | 278808 | 1/60 |
| 6  | 415 | 10 | 480Y/277 | 5 |  | FAZ-S6/2  | 278809 | 1/60 |
| 10 | 415 | 10 | 480Y/277 | 5 |  | FAZ-S10/2 | 278810 | 1/60 |
| 16 | 415 | 10 | 480Y/277 | 5 |  | FAZ-S16/2 | 278811 | 1/60 |
| 20 | 415 | 10 | 480Y/277 | 5 |  | FAZ-S20/2 | 278812 | 1/60 |
| 25 | 415 | 10 | 480Y/277 | 5 |  | FAZ-S25/2 | 278813 | 1/60 |
| 32 | 415 | 10 | 480Y/277 | 5 |  | FAZ-S32/2 | 278814 | 1/60 |
| 40 | 415 | 10 | 480Y/277 | 5 |  | FAZ-S40/2 | 278815 | 1/60 |







# FAZ | Characteristic Z

## FAZ Miniature Circuit Breakers (MCBs) Characteristic Z

|               | Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|---------------|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
| <b>1-pole</b> |                            |                      |   |                                |  |                     |             |                         |
| 0,5           | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z0,5/1          | 278617      | 12/120                  |
| 1             | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z1/1            | 278618      | 12/120                  |
| 1,6           | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z1,6/1          | 278619      | 12/120                  |
| 2             | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z2/1            | 278620      | 12/120                  |
| 3             | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z3/1            | 278621      | 12/120                  |
| 4             | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z4/1            | 278622      | 12/120                  |
| 6             | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z6/1            | 278623      | 12/120                  |
| 8             | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z8/1            | 278624      | 12/120                  |
| 10            | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z10/1           | 278625      | 12/120                  |
| 13            | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z13/1           | 106020      | 12/120                  |
| 16            | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z16/1           | 278626      | 12/120                  |
| 20            | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z20/1           | 278627      | 12/120                  |
| 25            | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z25/1           | 278628      | 12/120                  |
| 32            | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z32/1           | 278629      | 12/120                  |
| 40            | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z40/1           | 278630      | 12/120                  |
| 50            | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z50/1           | 278631      | 12/120                  |
| 63            | 240/415                    | 15                   | 277   | 5                              |  | FAZ-Z63/1           | 278632      | 12/120                  |

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|               |     |    |          |   |  |            |        |      |
|---------------|-----|----|----------|---|--|------------|--------|------|
| <b>2-pole</b> |     |    |          |   |  |            |        |      |
| 0,5           | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z0,5/2 | 278816 | 1/60 |
| 1             | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z1/2   | 278817 | 1/60 |
| 1,6           | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z1,6/2 | 278818 | 1/60 |
| 2             | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z2/2   | 278819 | 1/60 |
| 3             | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z3/2   | 278820 | 1/60 |
| 4             | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z4/2   | 278821 | 1/60 |
| 6             | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z6/2   | 278822 | 1/60 |
| 8             | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z8/2   | 278823 | 1/60 |
| 10            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z10/2  | 278824 | 1/60 |
| 13            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z13/2  | 106021 | 1/60 |
| 16            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z16/2  | 278825 | 1/60 |
| 20            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z20/2  | 278826 | 1/60 |
| 25            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z25/2  | 278827 | 1/60 |
| 32            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z32/2  | 278828 | 1/60 |
| 40            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z40/2  | 278829 | 1/60 |
| 50            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z50/2  | 278830 | 1/60 |
| 63            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z63/2  | 278831 | 1/60 |

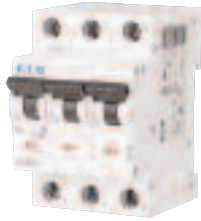




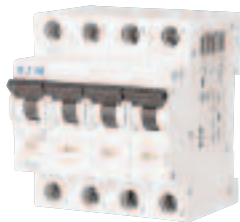
# FAZ | Characteristic Z

|               | Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL1077<br>(V) | Breaking capacity<br>acc. to<br>UL1077<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|---------------|----------------------------|----------------------|---|--------------------------------|--|---------------------|-------------|-------------------------|
| <b>3-pole</b> |                            |                      |   |                                |  |                     |             |                         |
| 0,5           | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z0,5/3          | 278918      | 1/40                    |
| 1             | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z1/3            | 278919      | 1/40                    |
| 1,6           | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z1,6/3          | 278920      | 1/40                    |
| 2             | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z2/3            | 278921      | 1/40                    |
| 3             | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z3/3            | 278922      | 1/40                    |
| 4             | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z4/3            | 278923      | 1/40                    |
| 6             | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z6/3            | 278924      | 1/40                    |
| 8             | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z8/3            | 278925      | 1/40                    |
| 10            | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z10/3           | 278926      | 1/40                    |
| 13            | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z13/3           | 106022      | 1/40                    |
| 16            | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z16/3           | 278927      | 1/40                    |
| 20            | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z20/3           | 278928      | 1/40                    |
| 25            | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z25/3           | 278929      | 1/40                    |
| 32            | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z32/3           | 278930      | 1/40                    |
| 40            | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z40/3           | 278931      | 1/40                    |
| 50            | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z50/3           | 278932      | 1/40                    |
| 63            | 415                        | 15                   | 480Y/277  | 5                              |  | FAZ-Z63/3           | 278933      | 1/40                    |

SG07111



SG07211



|               |     |    |          |   |  |            |        |      |
|---------------|-----|----|----------|---|--|------------|--------|------|
| <b>4-pole</b> |     |    |          |   |  |            |        |      |
| 0,5           | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z0,5/4 | 279106 | 1/60 |
| 1             | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z1/4   | 279107 | 1/60 |
| 1,6           | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z1,6/4 | 279108 | 1/60 |
| 2             | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z2/4   | 279109 | 1/60 |
| 3             | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z3/4   | 279110 | 1/60 |
| 4             | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z4/4   | 279111 | 1/60 |
| 6             | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z6/4   | 279112 | 1/60 |
| 8             | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z8/4   | 279113 | 1/60 |
| 10            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z10/4  | 279114 | 1/60 |
| 13            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z13/4  | 106023 | 1/60 |
| 16            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z16/4  | 279115 | 1/60 |
| 20            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z20/4  | 279116 | 1/60 |
| 25            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z25/4  | 279117 | 1/60 |
| 32            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z32/4  | 279118 | 1/60 |
| 40            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z40/4  | 279119 | 1/60 |
| 50            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z50/4  | 279120 | 1/60 |
| 63            | 415 | 15 | 480Y/277 | 5 |  | FAZ-Z63/4  | 279121 | 1/60 |





# FAZ-PN | Characteristic B und C

## FAZ-PN Miniature Circuit Breakers (MCBs) Characteristic B

SG08311



| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60898-1<br>(kA) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|---|---------------------|-------------|-------------------------|
|----------------------------|----------------------|---|---|---------------------|-------------|-------------------------|

### 1+N-pole (1MU)

|    |     |   |    |               |        |        |
|----|-----|---|----|---------------|--------|--------|
| 6  | 240 | 6 | 10 | FAZ-PN-B6/1N  | 279146 | 12/120 |
| 10 | 240 | 6 | 10 | FAZ-PN-B10/1N | 279147 | 12/120 |
| 13 | 240 | 6 | 10 | FAZ-PN-B13/1N | 279148 | 12/120 |
| 16 | 240 | 6 | 10 | FAZ-PN-B16/1N | 279149 | 12/120 |
| 20 | 240 | 6 | 10 | FAZ-PN-B20/1N | 279150 | 12/120 |
| 25 | 240 | 6 | 10 | FAZ-PN-B25/1N | 279151 | 12/120 |
| 32 | 240 | 6 | 10 | FAZ-PN-B32/1N | 279152 | 12/120 |
| 40 | 240 | 6 | 10 | FAZ-PN-B40/1N | 279153 | 12/120 |

## FAZ-PN Miniature Circuit Breakers (MCBs) Characteristic C

SG08311



| Rated current<br>$I_n$ (A) | Rated voltage<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60898-1<br>(kA) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|----------------------|---|---|---------------------|-------------|-------------------------|
|----------------------------|----------------------|---|---|---------------------|-------------|-------------------------|

### 1+N-pole (1MU)



|    |     |   |    |               |        |        |
|----|-----|---|----|---------------|--------|--------|
| 2  | 240 | 6 | 10 | FAZ-PN-C2/1N  | 279154 | 12/120 |
| 4  | 240 | 6 | 10 | FAZ-PN-C4/1N  | 279155 | 12/120 |
| 6  | 240 | 6 | 10 | FAZ-PN-C6/1N  | 279156 | 12/120 |
| 10 | 240 | 6 | 10 | FAZ-PN-C10/1N | 279157 | 12/120 |
| 13 | 240 | 6 | 10 | FAZ-PN-C13/1N | 279158 | 12/120 |
| 16 | 240 | 6 | 10 | FAZ-PN-C16/1N | 279159 | 12/120 |
| 20 | 240 | 6 | 10 | FAZ-PN-C20/1N | 279160 | 12/120 |
| 25 | 240 | 6 | 10 | FAZ-PN-C25/1N | 279161 | 12/120 |
| 32 | 240 | 6 | 10 | FAZ-PN-C32/1N | 279162 | 12/120 |
| 40 | 240 | 6 | 10 | FAZ-PN-C40/1N | 279163 | 12/120 |





# FAZ-...-HS | Characteristic B

## FAZ-...-HS Miniature Circuit Breakers (MCBs) Characteristic B

|   | Rated<br>current<br>$I_n$ (A) | Rated<br>voltage<br>(V) | Breaking<br>capacity<br>acc. to<br>IEC/EN<br>60898-1<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|---|-------------------------------|-------------------------|--|---------------------|-------------|-------------------------|
| <b>1-pole</b>   |                               |                         |  |                     |             |                         |
|  <p>SG08411</p>  | 4                             | 240                     | 10   | FAZ-B4/1-HS         | 279274      | 12/120                  |
| <b>2-pole</b>   |                               |                         |  |                     |             |                         |
|  <p>SG12911</p> | 4                             | 240                     | 10   | FAZ-B4/2-HS         | 279275      | 1/60                    |





# FAZ | Specifications

## Specifications

### Technical data

|   | B Curve                              | C Curve                        | D Curve                        |
|---|--------------------------------------|--------------------------------|--------------------------------|
| <b>Electrical</b>                       |                                      |                                |                                |
| Approvals                               | UR (UL 1077), CSA (CSA 22.2 No. 235) |                                |                                |
| Standards                               | IEC/EN 60947-2                       |                                |                                |
| Short-circuit trip response             | 3–5 $I_n$                            | 5–10 $I_n$                     | 10–20 $I_n$                    |
| <b>Supplementary Protectors—UL/CSA</b>  |                                      |                                |                                |
| Current range                           | 1–63A                                | 0.5–63A                        | 0.5–40A                        |
| Maximum voltage ratings—UL/CSA          |                                      |                                |                                |
| Single-pole                             | 277 Vac<br>48 Vdc                    | 277 Vac<br>48 Vdc              | 277 Vac<br>48 Vdc              |
| Two-, three-pole                        | 480Y/277 Vac                         | 480Y/277 Vac                   | 480Y/277 Vac                   |
| Two poles in series                     | 96 Vdc                               | 96 Vdc                         | 96 Vdc                         |
| Thermal tripping characteristics        |                                      |                                |                                |
| Single-pole                             | 1.35 x $I_n$ @ 40°C                  | 1.35 x $I_n$ @ 40°C            | 1.35 x $I_n$ @ 40°C            |
| Multi-pole                              | 1.45 x $I_n$ @ 40°C                  | 1.45 x $I_n$ @ 40°C            | 1.45 x $I_n$ @ 40°C            |
| Short-circuit ratings (at max. voltage) |                                      |                                |                                |
| Single-pole                             | 10 kA (5 kA for 40–63A device)       | 10 kA (5 kA for 40–63A device) | 5 kA                           |
| Two-, three-pole                        | 10 kA (5 kA for 40–63A device)       | 10 kA (5 kA for 40–63A device) | 5 kA                           |
| Single-pole                             | 10 kA @ 48 Vdc                       | 10 kA @ 48 Vdc                 | 10 kA @ 48 Vdc                 |
| Two poles in series                     | 10 kA @ 96 Vdc                       | 10 kA @ 96 Vdc                 | 10 kA @ 96 Vdc                 |
| <b>Miniature Circuit Breaker—IEC</b>    |                                      |                                |                                |
| Current range                           | 1–63A                                | 0.5–63A                        | 0.5–63A                        |
| Maximum voltage ratings—IEC 60947-2     |                                      |                                |                                |
| Single-pole                             | 230 Vac<br>48 Vdc                    | 230 Vac<br>48 Vdc              | 230 Vac<br>48 Vdc              |
| Two-, three-pole                        | 230/400 Vac                          | 230/400 Vac                    | 230/400 Vac                    |
| Maximum Voltage Ratings—IEC 60898       |                                      |                                |                                |
| Single-pole                             | 240 Vac<br>48 Vdc                    | 240 Vac<br>48 Vdc              | 240 Vac<br>48 Vdc              |
| Two-, three-pole                        | 240/415 Vac                          | 240/415 Vac                    | 240/415 Vac                    |
| Thermal tripping characteristics        |                                      |                                |                                |
| Single-pole                             | > 1 hour @ 1.05 x $I_n$              | > 1 hour @ 1.05 x $I_n$        | > 1 hour @ 1.05 x $I_n$        |
| Multi-pole                              | < 1 hour @ 1.3 x $I_n$               | < 1 hour @ 1.3 x $I_n$         | < 1 hour @ 1.3 x $I_n$         |
| Interrupt ratings (at max. voltage)     |                                      |                                |                                |
| IEC 60947-2                             | 15 kA                                | 15 kA                          | 15 kA                          |
| IEC 60898                               | 10 kA                                | 10 kA                          | 10 kA                          |
| Operational switching capacity          | 7.5 kA                               | 7.5 kA                         | 7.5 kA                         |
| Max. back-up fuse [gL/gG]               | 125A                                 | 125A                           | 125A                           |
| Rated impulse withstand— $U_{imp}$      | 4000 Vac                             | 4000 Vac                       | 4000 Vac                       |
| Rated insulation voltage— $U_i$         | 440 Vac                              | 440 Vac                        | 440 Vac                        |
| <b>Environmental/General</b>            |                                      |                                |                                |
| Selectivity class                       | 3                                    | 3                              | 3                              |
| Lifespan (operations)                   | > 10000 (1 operation = ON/OFF)       | > 10000 (1 operation = ON/OFF) | > 10000 (1 operation = ON/OFF) |
| Shock (IEC 68-2-22)                     | 10g–120 ms                           | 10g–120 ms                     | 10g–120 ms                     |
| Operating temperature range             | -40 to +75°C                         | -40 to +75°C                   | -40 to +75°C                   |
| <b>Mechanical</b>                       |                                      |                                |                                |
| Standard front dimension                |                                      |                                |                                |
| Device height                           | 80 mm                                | 80 mm                          | 80 mm                          |
| Terminal protection                     | Finger and back-of-hand proof        | Finger and back-of-hand proof  | Finger and back-of-hand proof  |
| Mounting width per pole                 | 17.5 mm                              | 17.5 mm                        | 17.5 mm                        |
| Mounting                                | IEC/EN 60715 top-hat rail            | IEC/EN 60715 top-hat rail      | IEC/EN 60715 top-hat rail      |
| Degree of protection                    | IP20                                 | IP20                           | IP20                           |
| Terminals top and bottom                | Twin-purpose terminals               | Twin-purpose terminals         | Twin-purpose terminals         |
| Supply connection                       | Line or load side                    | Line or load side              | Line or load side              |
| Terminal capacity [mm <sup>2</sup> ]    | 1 x 25 / 2 x 10                      | 1 x 25 / 2 x 10                | 1 x 25 / 2 x 10                |
| Torque                                  | 2.4 Nm                               | 2.4 Nm                         | 2.4 Nm                         |
| Thickness of busbar material            | 0.8–2 mm                             | 0.8–2 mm                       | 0.8–2 mm                       |
| Mounting position                       | As required                          | As required                    | As required                    |





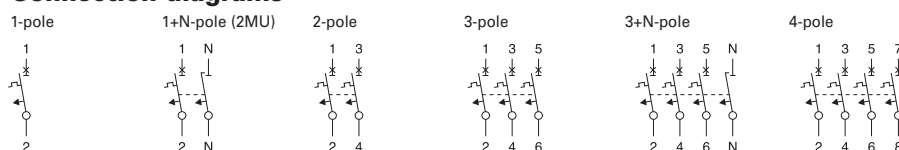
# FAZ | Specifications

## Specifications

### Technical Data (continued)

|  | K Curve                                       | S Curve                          | Z Curve                          |
|--|---|----------------------------------|----------------------------------|
| <b>Electrical</b>                                |   |                                  |                                  |
| Approvals  | UR (UL 1077), CSA (CSA 22.2 No. 235), CE, VDE |                                  |                                  |
| Standards  | IEC/EN 60947-2                                |                                  |                                  |
| Short-circuit trip response                      | 8–12 I <sub>n</sub>                           | 13–17 I <sub>n</sub>             | 2–3 I <sub>n</sub>               |
| <b>Supplementary Protectors—UL/CSA</b>           |   |                                  |                                  |
| Current range                                    | 0.5–63A                                       | 0.5–40A                          | 1–63A                            |
| Maximum voltage ratings—UL/CSA                   |   |                                  |                                  |
| Single-pole, single-pole + neutral               | 277 Vac<br>48 Vdc                             | 277 Vac<br>48 Vdc                | 277 Vac<br>48 Vdc                |
| Two-, three-, four-pole and three-pole + neutral | 480Y/277 Vac                                  | 480Y/277 Vac                     | 480Y/277 Vac                     |
| Two poles in series                              | 96 Vdc  | 96 Vdc                           | 96 Vdc                           |
| Thermal tripping characteristics                 |   |                                  |                                  |
| Single-pole                                      | 1.35 x I <sub>n</sub> @ 40°C                  | 1.35 x I <sub>n</sub> @ 40°C     | 1.35 x I <sub>n</sub> @ 40°C     |
| Multi-pole                                       | 1.45 x I <sub>n</sub> @ 40°C                  | 1.45 x I <sub>n</sub> @ 40°C     | 1.45 x I <sub>n</sub> @ 40°C     |
| Short-circuit ratings (at max. voltage)          |   |                                  |                                  |
| Single-pole                                      | 5 kA @ 277 Vac                                | 5 kA @ 277 Vac                   | 5 kA @ 277 Vac                   |
| Single-pole + neutral                            | 5 kA @ 277 Vac                                | 5 kA @ 277 Vac                   | 5 kA @ 277 Vac                   |
| Two-, three-, four-pole                          | 5 kA @ 480Y/277 Vac                           | 5 kA @ 480Y/277 Vac              | 5 kA @ 480Y/277 Vac              |
| <b>Miniature Circuit Breaker—IEC</b>             |   |                                  |                                  |
| Current range                                    | 0.5–63A                                       | 0.5–40A                          | 1–63A                            |
| Maximum voltage ratings—IEC 60947-2              |   |                                  |                                  |
| Single-pole, single-pole + neutral               | 240 Vac                                       | 240 Vac                          | 240 Vac                          |
| Two-, three-, four-pole, three-pole + neutral    | 240/415 Vac                                   | 240/415 Vac                      | 240/415 Vac                      |
| Thermal tripping characteristics                 |   |                                  |                                  |
| Single-pole                                      | > 1 hour @ 1.05 x I <sub>n</sub>              | > 1 hour @ 1.05 x I <sub>n</sub> | > 1 hour @ 1.05 x I <sub>n</sub> |
| Multi-pole                                       | < 1 hour @ 1.3 x I <sub>n</sub>               | < 1 hour @ 1.3 x I <sub>n</sub>  | < 1 hour @ 1.3 x I <sub>n</sub>  |
| Interrupt ratings (at max. voltage)              |   |                                  |                                  |
| IEC 60947-2                                      | 15 kA   | 10 kA                            | 10 kA                            |
| IEC 60898  | 15 kA   | 10 kA                            | 10 kA                            |
| Operational switching capacity                   | 7.5 kA  | 7.5 kA                           | 7.5 kA                           |
| Max. back-up fuse [gL/gG]                        | 125A  | 125A                             | 125A                             |
| Rated impulse withstand—U <sub>imp</sub>         | 4000 Vac                                      | 4000 Vac                         | 4000 Vac                         |
| Rated insulation voltage—U <sub>i</sub>          | 440 Vac                                       | 440 Vac                          | 440 Vac                          |
| <b>Environmental/General</b>                     |   |                                  |                                  |
| Selectivity class                                | 3   | 3                                | 3                                |
| Lifespan (operations)                            | > 10000 (1 operation = ON/OFF)                | > 10000 (1 operation = ON/OFF)   | > 10000 (1 operation = ON/OFF)   |
| Shock (IEC 68-2-22)                              | 10g–120 ms                                    | 10g–120 ms                       | 10g–120 ms                       |
| Operating temperature range                      | -5 to +40°C                                   | -5 to +40°C                      | -5 to +40°C                      |
| <b>Mechanical</b>                                |   |                                  |                                  |
| Standard front dimension                         | 80 mm   |                                  |                                  |
| Device height                                    | 80 mm   |                                  |                                  |
| Terminal protection                              | Finger and back-of-hand proof                 |                                  |                                  |
| Mounting width per pole                          | 17.5 mm                                       | 17.5 mm                          | 17.5 mm                          |
| Mounting   | IEC/EN 60715 top-hat rail                     |                                  |                                  |
| Degree of protection                             | IP20  |                                  |                                  |
| Terminals top and bottom                         | Twin-purpose terminals                        |                                  |                                  |
| Supply connection                                | Line or load side                             |                                  |                                  |
| Terminal capacity [mm <sup>2</sup> ]             | 1 x 25 / 2 x 10                               |                                  |                                  |
| Torque   | 2.4 Nm  |                                  |                                  |
| Thickness of busbar material                     | 0.8–2 mm                                      |                                  |                                  |
| Mounting position                                | As required                                   |                                  |                                  |

### Connection diagrams

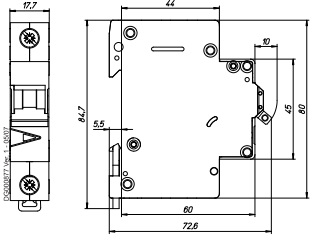
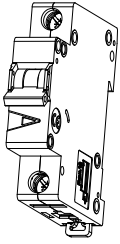




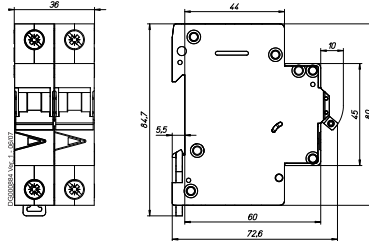
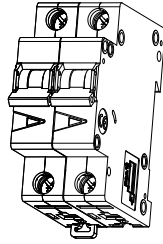
# FAZ | Specifications

## Dimensions (mm) FAZ

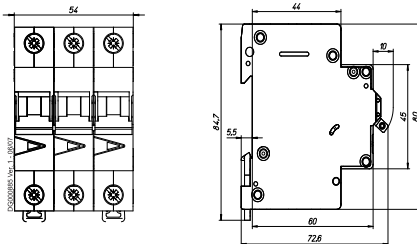
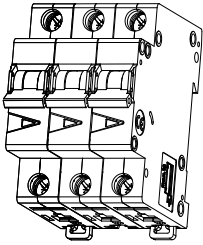
1-pole



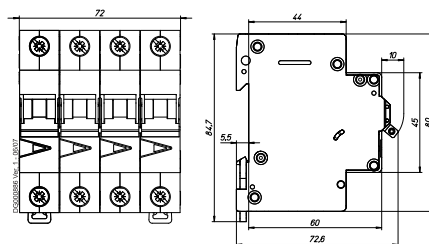
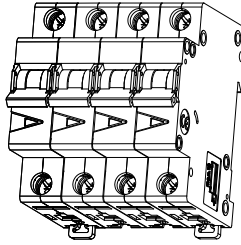
1+N-pole, 2-pole



3-pole



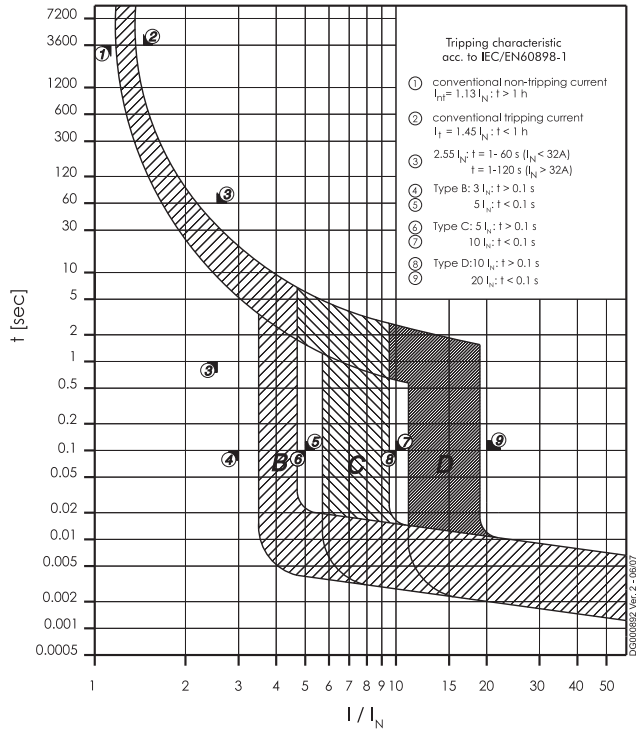
3+N-pole, 4-pole



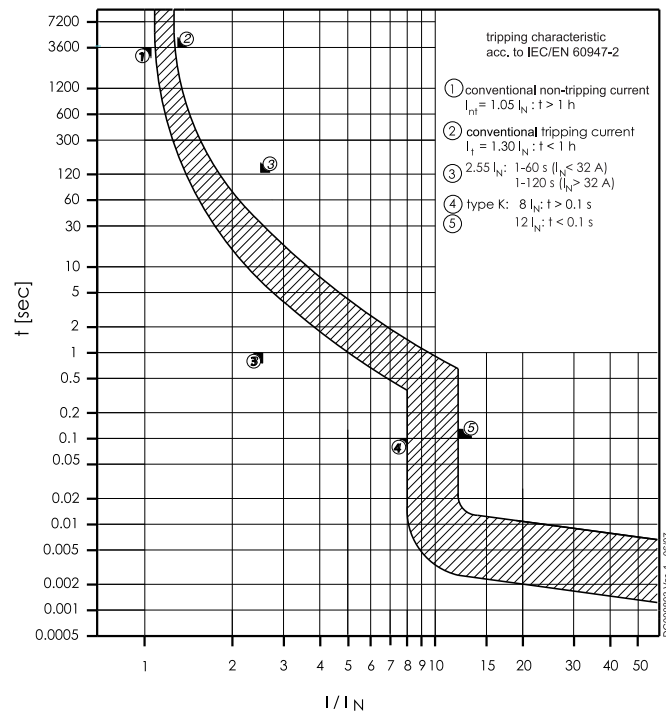
# FAZ | Specifications

## Tripping Characteristic FAZ

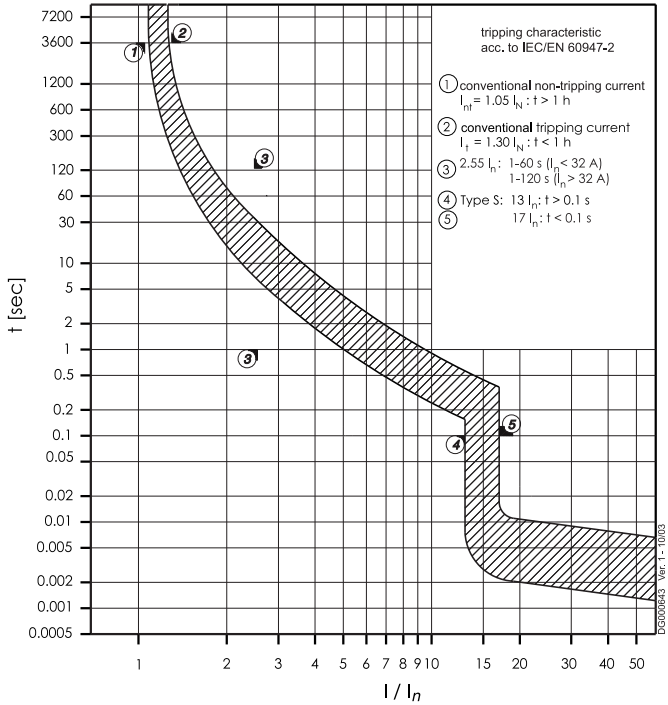
Characteristics B, C and D - IEC/EN60898-1



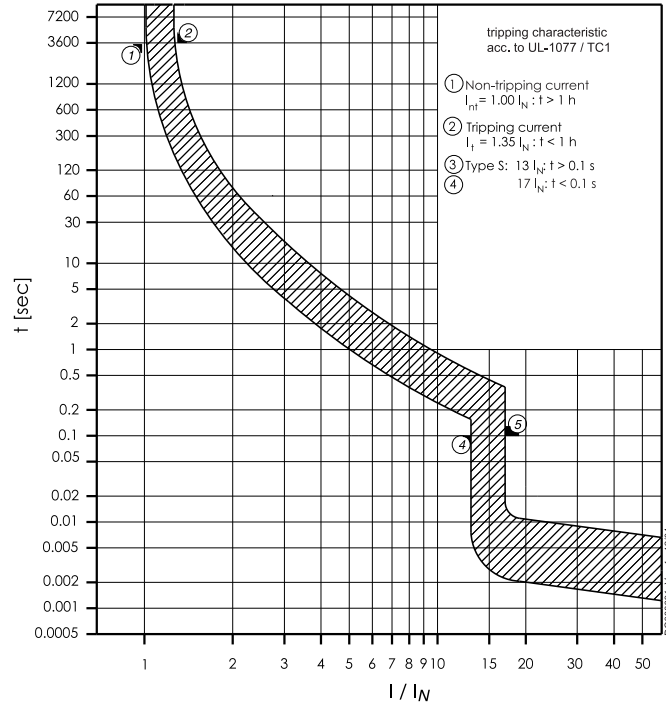
Characteristic K - IEC/EN 60947-2



Characteristic S - IEC/EN 60947-2



Characteristic S - UL1077



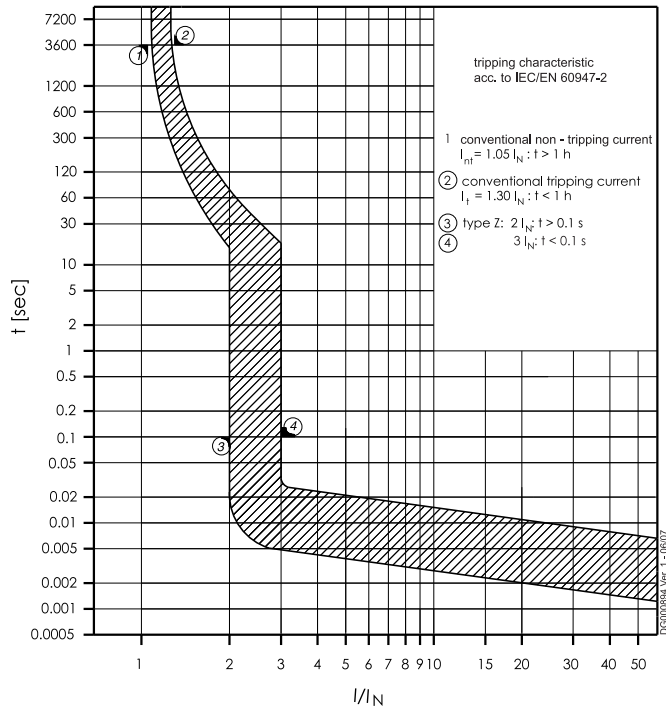




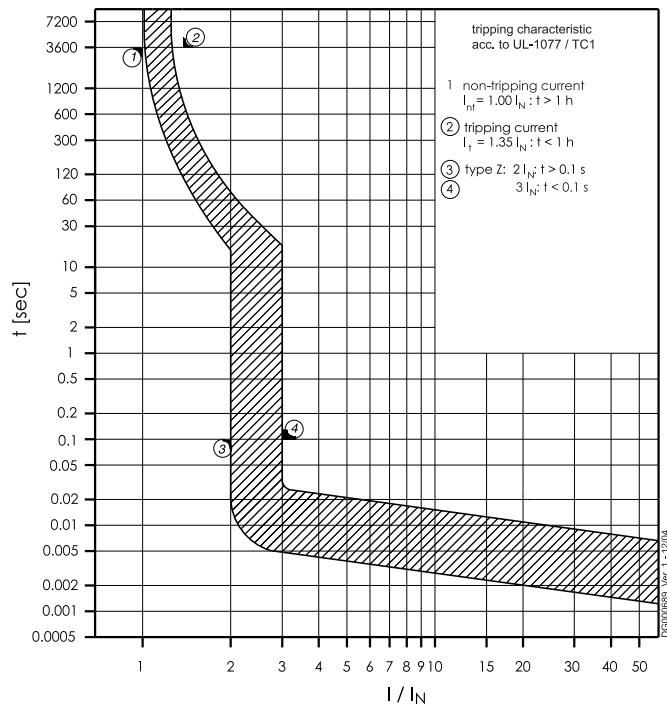
# FAZ | Specifications

## Tripping Characteristic FAZ

Characteristic Z - IEC/EN 60947-2



Characteristic Z - UL1077



# FAZ | Specifications

## Internal Resistance FAZ

### Type B

At room temperature (single pole)

| In [A] | Z* [mΩ] | R [mΩ] |
|--------|---------|--------|
| 1      | 1120    | 1102   |
| 1.5    | 922     | 912    |
| 1.6    | 922     | 912    |
| 2      | 335     | 333    |
| 2.5    | 234     | 230    |
| 3      | 211     | 208    |
| 3.5    | 184     | 180    |
| 4      | 87.7    | 87.2   |
| 5      | 73.5    | 72.8   |
| 6      | 46.8    | 46.3   |
| 8      | 30.5    | 30.4   |
| 10     | 17.5    | 17.4   |
| 12     | 16.9    | 16.8   |
| 13     | 13.4    | 13.3   |
| 15     | 8.0     | 7.9    |
| 16     | 8.0     | 7.9    |
| 20     | 7.2     | 7.1    |
| 25     | 5.0     | 4.9    |
| 32     | 3.7     | 3.7    |
| 40     | 2.6     | 2.5    |
| 50     | 2.1     | 2.1    |
| 63     | 2.0     | 2.0    |

\* 50Hz

### Type C

At room temperature (single pole)

| In [A] | Z* [mΩ] | R [mΩ] |
|--------|---------|--------|
| 0.16   | 68500   | 68300  |
| 0.25   | 27500   | 27400  |
| 0.5    | 4680    | 4670   |
| 0.75   | 2280    | 2250   |
| 1      | 1120    | 1100   |
| 1.5    | 589     | 587    |
| 1.6    | 589     | 587    |
| 2      | 335     | 333    |
| 2.5    | 234     | 230    |
| 3      | 131     | 130    |
| 3.5    | 143     | 141    |
| 4      | 87.7    | 87.2   |
| 5      | 73.5    | 72.8   |
| 6      | 39.3    | 39.1   |
| 8      | 30.5    | 30.4   |
| 10     | 14.1    | 14.0   |
| 12     | 13.5    | 13.4   |
| 13     | 13.4    | 13.3   |
| 15     | 8.0     | 7.9    |
| 16     | 8.0     | 7.9    |
| 20     | 7.2     | 7.1    |
| 25     | 5.0     | 4.9    |
| 32     | 3.7     | 3.7    |
| 40     | 2.6     | 2.5    |
| 50     | 2.1     | 2.1    |
| 63     | 2.0     | 2.0    |

\* 50Hz

### Type D

At room temperature (single pole)

| In [A] | Z* [mΩ] | R [mΩ] |
|--------|---------|--------|
| 0.5    | 4680    | 4670   |
| 1      | 772     | 770    |
| 1.5    | 512     | 508    |
| 1.6    | 512     | 508    |
| 2      | 250     | 249    |
| 2.5    | 153     | 153    |
| 3      | 131     | 130    |
| 3.5    | 143     | 141    |
| 4      | 87.7    | 87.2   |
| 5      | 65.4    | 65.1   |
| 6      | 39.3    | 39.1   |
| 8      | 19.5    | 19.5   |
| 10     | 14.1    | 14.0   |
| 12     | 11.3    | 11.2   |
| 13     | 10.1    | 10.1   |
| 15     | 8.0     | 7.9    |
| 16     | 8.0     | 7.9    |
| 20     | 4.9     | 4.9    |
| 25     | 3.9     | 3.8    |
| 32     | 3.5     | 3.4    |
| 40     | 2.7     | 2.6    |

\* 50Hz



# FAZ | Specifications

## Fault Loop Impedance FAZ

Max. allowed value for the Fault Loop Impedance  $Z_s$   
(acc. to DIN VDE 0100, part 410)

$U_0 = 230\text{ V}$

|         | Type B         |                | Type C         |                | Type D         |                |
|---------|----------------|----------------|----------------|----------------|----------------|----------------|
|         | 0,4s           | 5s             | 0,4s           | 5s             | 0,4s           | 5s             |
| $I_n/A$ | $Z_s (\Omega)$ | $Z_s (\Omega)$ | $Z_s (\Omega)$ | $Z_s (\Omega)$ | $Z_s (\Omega)$ | $Z_s (\Omega)$ |
| 1       | 40,4           | 40,4           | 24,3           | 40,4           | 12,4           | 40,4           |
| 1,5     | 26,9           | 26,9           | 16,2           | 26,9           | 8,3            | 26,9           |
| 2       | 20,2           | 20,2           | 12,2           | 20,2           | 6,2            | 20,2           |
| 2,5     | 16,1           | 16,1           | 9,7            | 16,1           | 5,0            | 16,1           |
| 3       | 13,5           | 13,5           | 8,1            | 13,5           | 4,1            | 13,5           |
| 3,5     | 11,5           | 11,5           | 7,0            | 11,5           | 3,6            | 11,5           |
| 4       | 10,1           | 10,1           | 6,1            | 10,1           | 3,1            | 10,1           |
| 5       | 8,1            | 8,1            | 4,9            | 8,1            | 2,5            | 8,1            |
| 6       | 6,7            | 6,7            | 4,1            | 6,7            | 2,1            | 6,7            |
| 8       | 5,0            | 5,0            | 3,0            | 5,0            | 1,6            | 5,0            |
| 10      | 4,0            | 4,0            | 2,4            | 4,0            | 1,2            | 4,0            |
| 12      | 3,4            | 3,4            | 2,0            | 3,4            | 1,0            | 3,4            |
| 13      | 3,1            | 3,1            | 1,9            | 3,1            | 1,0            | 3,1            |
| 15      | 2,7            | 2,7            | 1,6            | 2,7            | 0,8            | 2,7            |
| 16      | 2,5            | 2,5            | 1,5            | 2,5            | 0,8            | 2,5            |
| 20      | 2,0            | 2,0            | 1,2            | 2,0            | 0,6            | 2,0            |
| 25      | 1,6            | 1,6            | 1,0            | 1,6            | 0,5            | 1,6            |
| 32      | 1,3            | 1,3            | 0,8            | 1,3            | 0,4            | 1,3            |
| 40      | 1,0            | 1,0            | 0,6            | 1,0            | 0,3            | 1,0            |
| 50      | 0,8            | 0,8            | 0,5            | 0,8            | 0,2            | 0,8            |
| 63      | 0,6            | 0,6            | 0,4            | 0,6            | 0,2            | 0,6            |

$$Z_s = R_{M.C.B.} + R_{Loop}$$

Data/factors taken from the time-current characteristic FAZ

For other rated voltages  $U_0$ :

$U_0 = 240\text{ V}$ :  $Z_s * 1,04$  applies

$U_0 = 127\text{ V}$ :  $Z_s * 0,55$  applies



# FAZ | Specifications

## Power Loss at $I_n$ FAZ

### Type B

| $I_n$ [A] | 1p    | 1pN   | 2p    | 3p    | 3pN*  |
|-----------|-------|-------|-------|-------|-------|
|           | P [W] | P [W] | P [W] | P [W] | P [W] |
| 1         | 1.6   | 1.7   | 3.1   | 4.7   | 4.8   |
| 1.5       | 2.3   | 2.5   | 4.6   | 6.9   | 7.2   |
| 1.6       | 2.5   | 2.7   | 4.9   | 7.4   | 7.6   |
| 2         | 1.4   | 1.5   | 2.8   | 4.1   | 4.3   |
| 2.5       | 1.5   | 1.7   | 3.1   | 4.6   | 4.7   |
| 3         | 2.5   | 2.7   | 5.0   | 7.6   | 7.8   |
| 3.5       | 2.5   | 2.8   | 5.1   | 7.8   | 8.0   |
| 4         | 1.4   | 1.6   | 2.9   | 4.4   | 4.5   |
| 5         | 1.9   | 2.1   | 3.8   | 5.8   | 6.0   |
| 6         | 1.8   | 2.0   | 3.6   | 5.5   | 5.6   |
| 8         | 2.1   | 2.3   | 4.1   | 6.3   | 6.5   |
| 10        | 1.9   | 2.1   | 3.9   | 5.9   | 6.1   |
| 12        | 2.8   | 3.2   | 5.9   | 8.7   | 9.0   |
| 13        | 2.5   | 2.9   | 5.3   | 7.8   | 8.1   |
| 15        | 2.1   | 2.4   | 4.4   | 6.5   | 6.7   |
| 16        | 2.2   | 2.6   | 4.7   | 6.9   | 7.2   |
| 20        | 3.2   | 3.6   | 6.6   | 9.8   | 10.1  |
| 25        | 3.0   | 3.5   | 6.4   | 9.4   | 9.7   |
| 32        | 3.7   | 4.4   | 8.1   | 12.1  | 12.5  |
| 40        | 3.4   | 4.1   | 7.5   | 11.2  | 11.5  |
| 50        | 4.5   | 5.4   | 9.9   | 14.9  | 15.3  |
| 63        | 5.2   | 6.3   | 11.5  | 17.2  | 17.7  |

\*symmetrical load

### Type C

| $I_n$ [A] | 1p    | 1pN   | 2p    | 3p    | 3pN*  |
|-----------|-------|-------|-------|-------|-------|
|           | P [W] | P [W] | P [W] | P [W] | P [W] |
| 0.16      | 2.2   | 2.4   | 4.4   | 6.7   | 6.9   |
| 0.25      | 2.0   | 2.2   | 4.0   | 6.1   | 6.3   |
| 0.5       | 1.2   | 1.3   | 2.4   | 3.5   | 3.7   |
| 0.75      | 1.3   | 1.4   | 2.6   | 3.9   | 4.1   |
| 1         | 1.6   | 1.7   | 3.1   | 4.7   | 4.8   |
| 1.5       | 1.5   | 1.6   | 2.9   | 4.4   | 4.6   |
| 1.6       | 1.6   | 1.7   | 3.1   | 4.7   | 4.9   |
| 2         | 1.4   | 1.5   | 2.8   | 4.1   | 4.3   |
| 2.5       | 1.5   | 1.7   | 3.1   | 4.6   | 4.7   |
| 3         | 1.2   | 1.3   | 2.4   | 3.6   | 3.7   |
| 3.5       | 1.3   | 1.4   | 2.6   | 3.9   | 4.0   |
| 4         | 1.4   | 1.6   | 2.9   | 4.4   | 4.5   |
| 5         | 1.9   | 2.1   | 3.8   | 5.8   | 6.0   |
| 6         | 1.5   | 1.6   | 2.9   | 4.4   | 4.6   |
| 8         | 2.1   | 2.3   | 4.1   | 6.3   | 6.5   |
| 10        | 1.5   | 1.7   | 3.0   | 4.6   | 4.7   |
| 12        | 2.1   | 2.4   | 4.4   | 6.5   | 6.8   |
| 13        | 2.5   | 2.9   | 5.3   | 7.8   | 8.1   |
| 15        | 2.1   | 2.4   | 4.4   | 6.5   | 6.7   |
| 16        | 2.2   | 2.6   | 4.7   | 6.9   | 7.2   |
| 20        | 3.2   | 3.6   | 6.6   | 9.8   | 10.1  |
| 25        | 3.0   | 3.5   | 6.4   | 9.4   | 9.7   |
| 32        | 3.7   | 4.4   | 8.1   | 12.1  | 12.5  |
| 40        | 3.4   | 4.1   | 7.5   | 11.2  | 11.5  |
| 50        | 4.5   | 5.4   | 9.9   | 14.9  | 15.3  |
| 63        | 5.2   | 6.3   | 11.5  | 17.2  | 17.7  |

\*symmetrical load

### Type D

| $I_n$ [A] | 1p    | 1pN   | 2p    | 3p    | 3pN*  |
|-----------|-------|-------|-------|-------|-------|
|           | P [W] | P [W] | P [W] | P [W] | P [W] |
| 0.5       | 1.2   | 1.3   | 2.4   | 3.5   | 3.7   |
| 1         | 0.8   | 0.9   | 1.6   | 2.4   | 2.5   |
| 1.5       | 1.2   | 1.3   | 2.3   | 3.5   | 3.6   |
| 1.6       | 1.3   | 1.4   | 2.5   | 3.8   | 3.9   |
| 2         | 1.0   | 1.1   | 2.0   | 3.0   | 3.1   |
| 2.5       | 1.0   | 1.1   | 1.9   | 2.9   | 3.0   |
| 3         | 1.2   | 1.3   | 2.4   | 3.6   | 3.7   |
| 3.5       | 1.3   | 1.4   | 2.6   | 3.9   | 4.0   |
| 4         | 1.4   | 1.6   | 2.9   | 4.4   | 4.5   |
| 5         | 1.7   | 1.8   | 3.3   | 5.1   | 5.3   |
| 6         | 1.5   | 1.6   | 2.9   | 4.4   | 4.6   |
| 8         | 1.3   | 1.5   | 2.6   | 4.0   | 4.2   |
| 10        | 1.5   | 1.7   | 3.0   | 4.6   | 4.7   |
| 12        | 1.7   | 2.0   | 3.6   | 5.3   | 5.4   |
| 13        | 1.9   | 2.2   | 4.0   | 5.9   | 6.1   |
| 15        | 2.1   | 2.4   | 4.4   | 6.5   | 6.7   |
| 16        | 2.2   | 2.6   | 4.7   | 6.9   | 7.2   |
| 20        | 2.0   | 2.2   | 4.1   | 6.1   | 6.2   |
| 25        | 2.5   | 2.9   | 5.2   | 7.7   | 7.9   |
| 32        | 3.4   | 4.0   | 7.4   | 11.1  | 11.4  |
| 40        | 3.2   | 3.8   | 7.0   | 10.4  | 10.7  |

\*symmetrical load

# FAZ | Specifications

## Influence of Ambient Temperature FAZ

On Load Carrying Capacity (temperature derating)

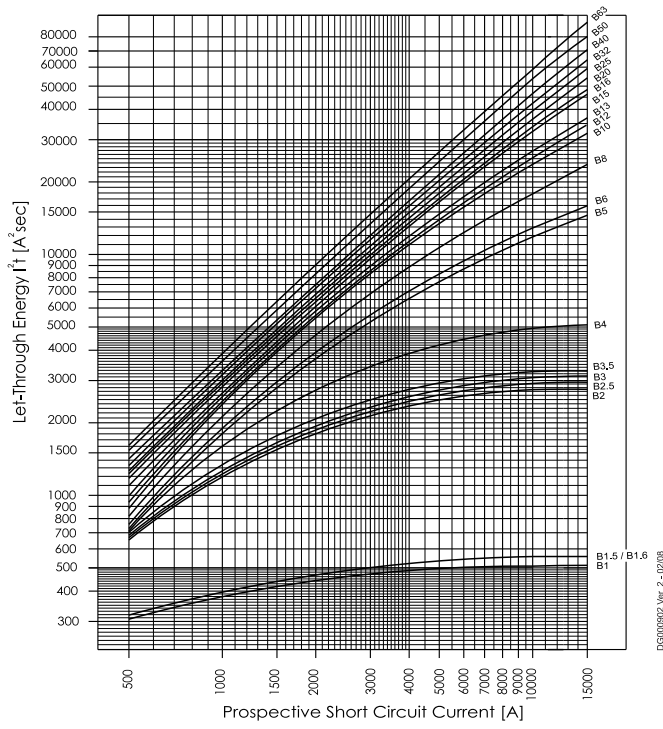
| I <sub>N</sub> [A] | Ambient temperature T [°C] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                    | -40                        | -30  | -20  | -10  | 0    | 10   | 20   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   | 75   |
| 0,16               | 0,2                        | 0,2  | 0,19 | 0,19 | 0,18 | 0,17 | 0,17 | 0,16 | 0,16 | 0,15 | 0,15 | 0,15 | 0,14 | 0,14 | 0,14 | 0,14 | 0,13 |
| 0,25               | 0,32                       | 0,31 | 0,3  | 0,29 | 0,28 | 0,27 | 0,26 | 0,25 | 0,25 | 0,24 | 0,24 | 0,23 | 0,23 | 0,22 | 0,22 | 0,21 | 0,21 |
| 0,5                | 0,64                       | 0,62 | 0,6  | 0,58 | 0,56 | 0,54 | 0,52 | 0,5  | 0,49 | 0,48 | 0,47 | 0,46 | 0,45 | 0,44 | 0,43 | 0,42 | 0,41 |
| 0,75               | 0,96                       | 0,93 | 0,9  | 0,87 | 0,84 | 0,81 | 0,78 | 0,75 | 0,74 | 0,73 | 0,71 | 0,69 | 0,68 | 0,66 | 0,65 | 0,64 | 0,62 |
| 1                  | 1,3                        | 1,2  | 1,2  | 1,2  | 1,1  | 1,1  | 1    | 1    | 0,99 | 0,97 | 0,95 | 0,93 | 0,9  | 0,89 | 0,87 | 0,85 | 0,83 |
| 1,5                | 1,9                        | 1,9  | 1,8  | 1,7  | 1,7  | 1,6  | 1,6  | 1,5  | 1,5  | 1,5  | 1,4  | 1,4  | 1,4  | 1,3  | 1,3  | 1,3  | 1,2  |
| 1,6                | 2                          | 2    | 1,9  | 1,9  | 1,8  | 1,7  | 1,7  | 1,6  | 1,6  | 1,5  | 1,5  | 1,5  | 1,4  | 1,4  | 1,4  | 1,4  | 1,3  |
| 2                  | 2,6                        | 2,5  | 2,4  | 2,3  | 2,2  | 2,2  | 2,1  | 2    | 2    | 1,9  | 1,9  | 1,9  | 1,8  | 1,8  | 1,7  | 1,7  | 1,7  |
| 2,5                | 3,2                        | 3,1  | 3    | 2,9  | 2,8  | 2,7  | 2,6  | 2,5  | 2,5  | 2,4  | 2,4  | 2,3  | 2,3  | 2,2  | 2,2  | 2,1  | 2,1  |
| 3                  | 3,8                        | 3,7  | 3,6  | 3,5  | 3,4  | 3,3  | 3,1  | 3    | 3    | 2,9  | 2,8  | 2,8  | 2,7  | 2,7  | 2,6  | 2,5  | 2,5  |
| 3,5                | 4,5                        | 4,4  | 4,2  | 4,1  | 3,9  | 3,8  | 3,7  | 3,5  | 3,4  | 3,4  | 3,3  | 3,2  | 3,2  | 3,1  | 3    | 3    | 2,9  |
| 4                  | 5,1                        | 5    | 4,8  | 4,7  | 4,5  | 4,3  | 4,2  | 4    | 3,9  | 3,9  | 3,8  | 3,7  | 3,6  | 3,5  | 3,5  | 3,4  | 3,3  |
| 5                  | 6,4                        | 6,2  | 6    | 5,8  | 5,6  | 5,4  | 5,2  | 5    | 4,9  | 4,8  | 4,7  | 4,6  | 4,5  | 4,4  | 4,3  | 4,2  | 4,1  |
| 6                  | 7,7                        | 7,5  | 7,2  | 7    | 6,7  | 6,5  | 6,3  | 6    | 5,9  | 5,8  | 5,7  | 5,6  | 5,4  | 5,3  | 5,2  | 5,1  | 5    |
| 8                  | 10,2                       | 9,9  | 9,6  | 9,3  | 9    | 8,7  | 8,4  | 8    | 7,9  | 7,7  | 7,6  | 7,4  | 7,2  | 7,1  | 6,9  | 6,8  | 6,6  |
| 10                 | 13                         | 12   | 12   | 12   | 11   | 11   | 10   | 10   | 9,9  | 9,7  | 9,5  | 9,3  | 9    | 8,9  | 8,7  | 8,5  | 8,3  |
| 12                 | 15                         | 15   | 14   | 14   | 13   | 13   | 13   | 12   | 12   | 12   | 11   | 11   | 11   | 11   | 10   | 10   | 10   |
| 13                 | 17                         | 16   | 16   | 15   | 15   | 14   | 14   | 13   | 13   | 13   | 12   | 12   | 12   | 12   | 11   | 11   | 11   |
| 15                 | 19                         | 19   | 18   | 17   | 17   | 16   | 16   | 15   | 15   | 15   | 14   | 14   | 14   | 13   | 13   | 13   | 12   |
| 16                 | 20                         | 20   | 19   | 19   | 18   | 17   | 17   | 16   | 16   | 15   | 15   | 15   | 14   | 14   | 14   | 14   | 13   |
| 20                 | 26                         | 25   | 24   | 23   | 22   | 22   | 21   | 20   | 20   | 19   | 19   | 19   | 18   | 18   | 17   | 17   | 17   |
| 25                 | 32                         | 31   | 30   | 29   | 28   | 27   | 26   | 25   | 25   | 24   | 24   | 23   | 23   | 22   | 22   | 21   | 21   |
| 32                 | 41                         | 40   | 38   | 37   | 36   | 35   | 33   | 32   | 32   | 31   | 30   | 30   | 29   | 28   | 28   | 27   | 26   |
| 40                 | 51                         | 50   | 48   | 47   | 45   | 43   | 42   | 40   | 39   | 39   | 38   | 37   | 36   | 35   | 35   | 34   | 33   |
| 50                 | 64                         | 62   | 60   | 58   | 56   | 54   | 52   | 50   | 49   | 48   | 47   | 46   | 45   | 44   | 43   | 42   | 41   |
| 63                 | 81                         | 78   | 76   | 73   | 71   | 68   | 66   | 63   | 62   | 61   | 60   | 58   | 57   | 56   | 55   | 53   | 52   |



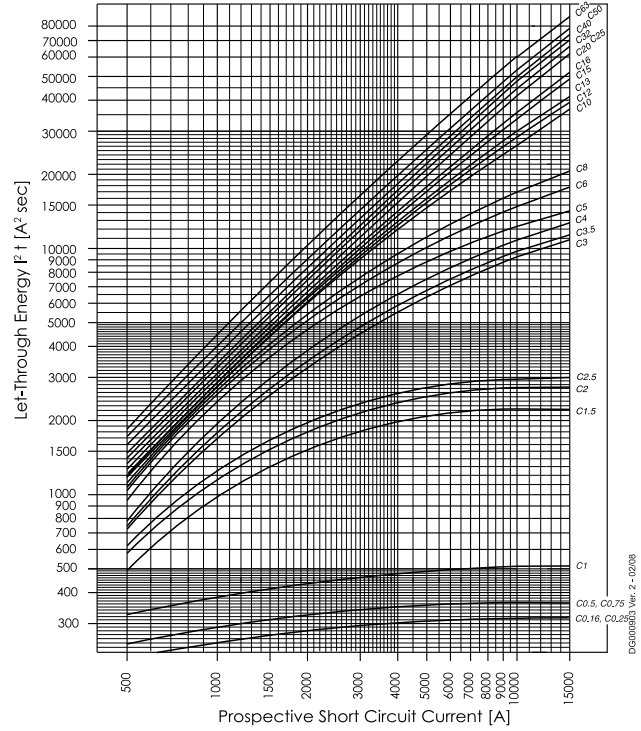
# FAZ | Specifications

## Maximum Let-Through Energy FAZ

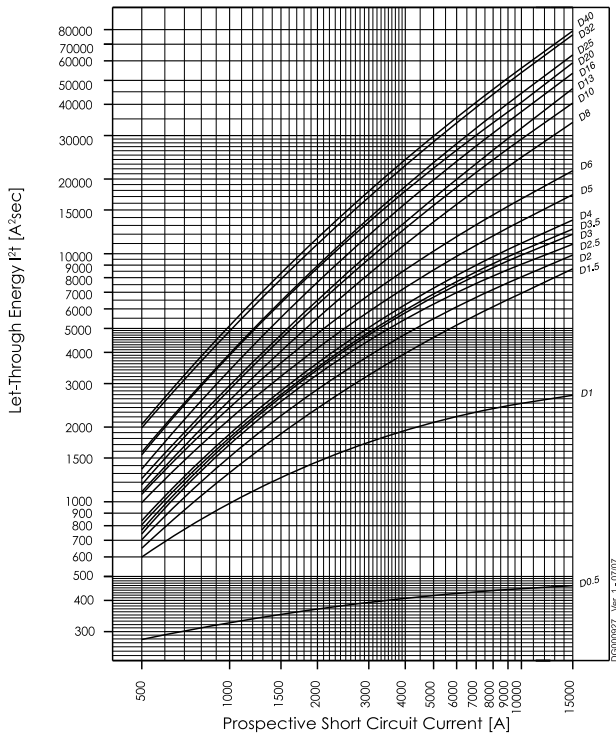
**Type B (IEC/EN60947-2)**



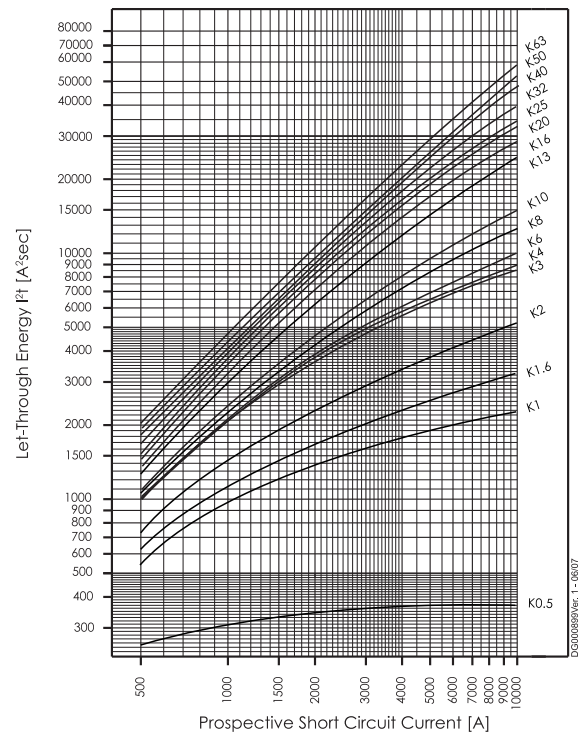
**Type C (IEC/EN60947-2)**



**Type D (IEC/EN60947-2)**



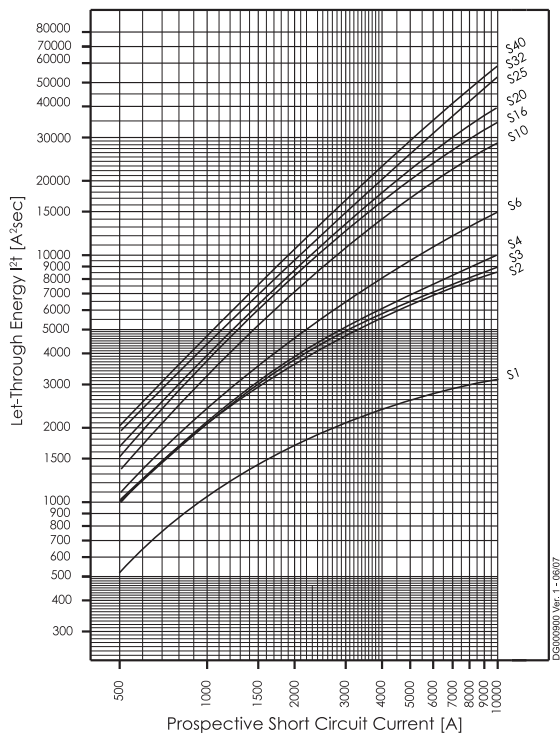
**Type K**



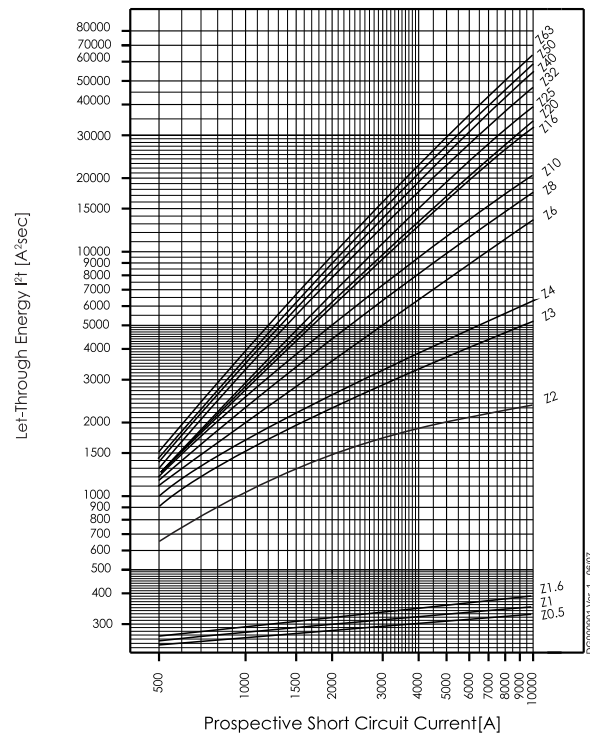
# FAZ | Specifications

## Maximum Let-Through Energy FAZ

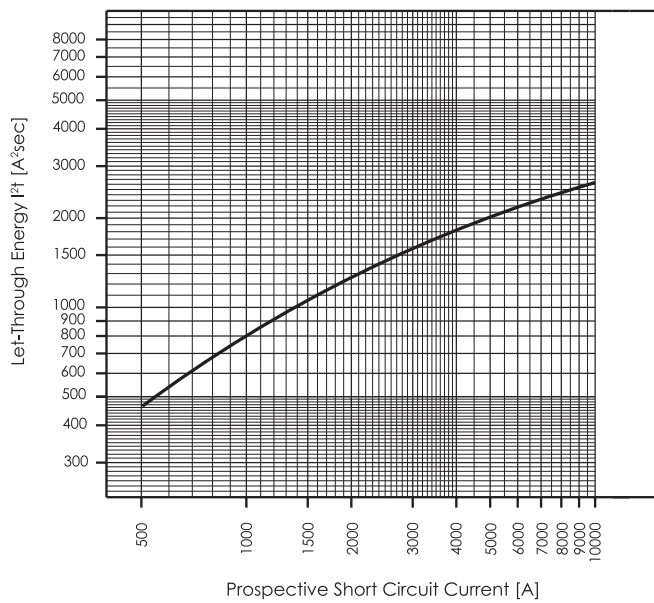
Type S



Type Z



Type FAZ....HS





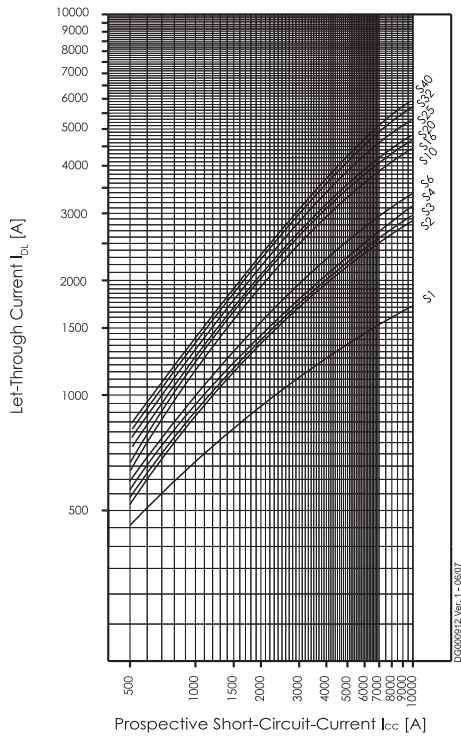




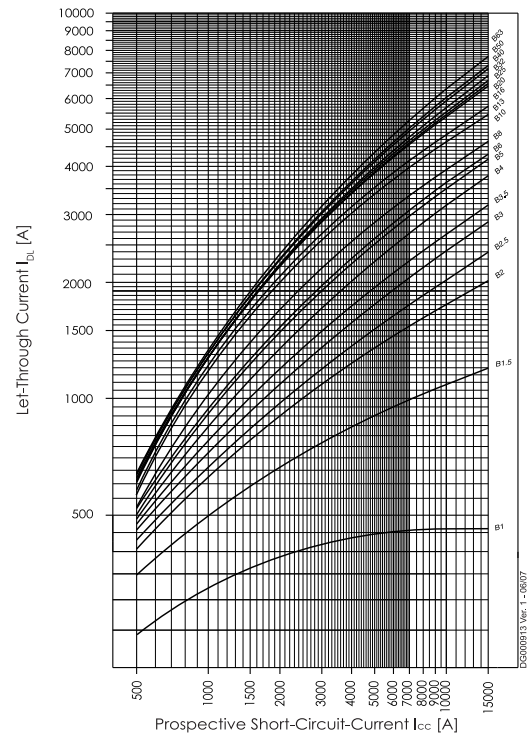
# FAZ | Specifications

## Maximum Let-Through Current FAZ

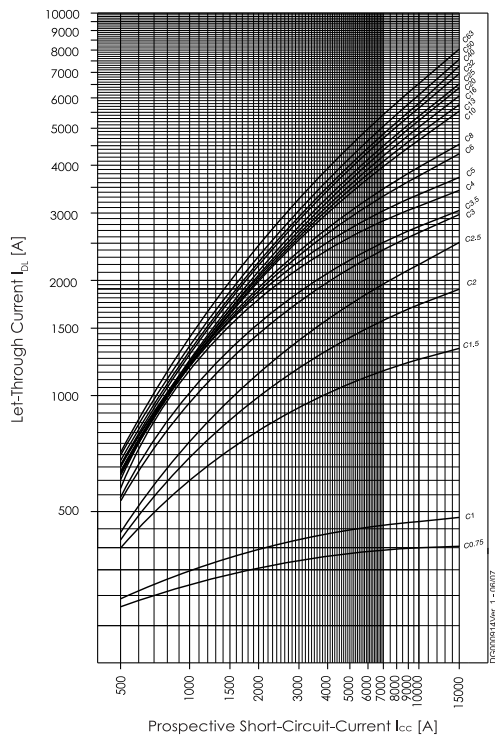
**Type S**



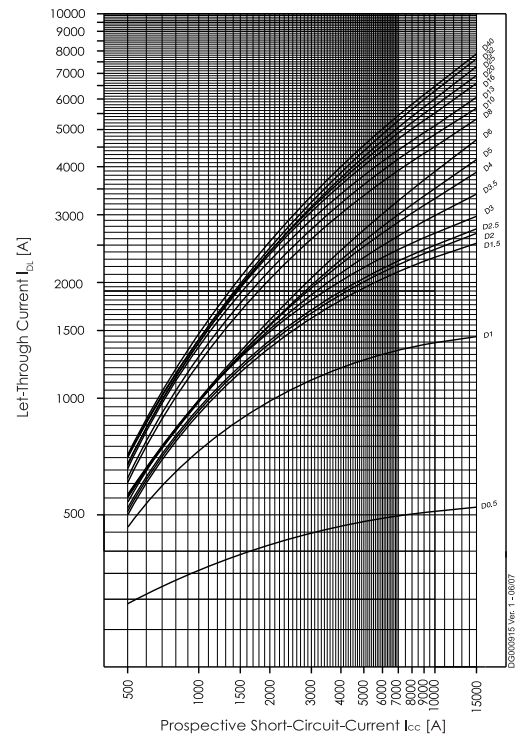
**Type B (IEC/EN60947-2)**



**Type C (IEC/EN60947-2)**



**Type D (IEC/EN60947-2)**





# FAZ | Specifications

## Short Circuit Selectivity FAZ towards NH-00 Fuses



In case of short circuit, there is selectivity between the miniature circuit breakers FAZ and the upstream fuses up to the specified values of the selectivity limit current  $I_s$  [kA] (i. e. in case of short-circuit currents  $I_{ks}$  under  $I_s$ , only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

\*) basically in accordance with EN 60898-1 D.5.2.b

Short circuit selectivity **characteristic B** towards fuse link **NH-00\***)

| FAZ       | NH-00 gL/gG        |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| $I_n$ [A] | 16                 | 20                 | 25                 | 32                 | 35                 | 40                 | 50                 | 63                 | 80                 | 100                | 125                | 160                |
| 1.0       | 0.9                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 1.5       | 0.8                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.0       | <0.5 <sup>1)</sup> | 0.5                | 1.0                | 2.5                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.5       | <0.5 <sup>1)</sup> | 0.5                | 1.0                | 2.3                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.0       | <0.5 <sup>1)</sup> | 0.5                | 0.9                | 2.1                | 8.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.5       | <0.5 <sup>1)</sup> | 0.5                | 0.9                | 1.8                | 5.5                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 4         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.8                | 1.3                | 2.3                | 4.3                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 5         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.7                | 1.1                | 1.6                | 2.2                | 3.6                | 4.8                | 8.9                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 6         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.7                | 1.1                | 1.5                | 2.0                | 3.3                | 4.3                | 7.6                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 8         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 1.0                | 1.3                | 1.7                | 2.6                | 3.3                | 5.2                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 10        |                    | <0.5 <sup>1)</sup> | 0.6                | 0.9                | 1.2                | 1.5                | 2.2                | 2.7                | 4.0                | 9.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 13        |                    | <0.5 <sup>1)</sup> | 0.6                | 0.8                | 1.1                | 1.4                | 2.1                | 2.6                | 3.8                | 7.9                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 16        |                    |                    | 0.5                | 0.7                | 1.0                | 1.3                | 1.9                | 2.4                | 3.4                | 6.4                | 9.3                | 10.0 <sup>2)</sup> |
| 20        |                    |                    |                    | 0.7                | 1.0                | 1.3                | 1.9                | 2.4                | 3.3                | 6.0                | 8.7                | 10.0 <sup>2)</sup> |
| 25        |                    |                    |                    | 0.7                | 1.0                | 1.3                | 1.8                | 2.3                | 3.2                | 5.7                | 8.0                | 10.0 <sup>2)</sup> |
| 32        |                    |                    |                    |                    | 0.9                | 1.2                | 1.7                | 2.2                | 3.1                | 5.4                | 7.6                | 10.0 <sup>2)</sup> |
| 40        |                    |                    |                    |                    |                    |                    |                    | 2.1                | 3.0                | 5.1                | 7.2                | 10.0 <sup>2)</sup> |
| 50        |                    |                    |                    |                    |                    |                    |                    | 1.9                | 2.8                | 4.7                | 6.6                | 9.5                |
| 63        |                    |                    |                    |                    |                    |                    |                    |                    |                    | 4.4                | 6.3                | 8.6                |

Short circuit selectivity **characteristic C** towards fuse link **NH-00\***)

| FAZ       | NH-00 gL/gG        |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |     |                    |                    |
|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----|--------------------|--------------------|
| $I_n$ [A] | 16                 | 20                 | 25                 | 32                 | 35                 | 40                 | 50                 | 63                 | 80                 | 100                | 125                | 160                |     |                    |                    |
| 0.75      | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |     |                    |                    |
| 1.0       | 0.9                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |     |                    |                    |
| 1.5       | <0.5 <sup>1)</sup> | 0.6                | 1.3                | 4.2                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |     |                    |                    |
| 2.0       | <0.5 <sup>1)</sup> | 0.6                | 1.0                | 2.5                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |     |                    |                    |
| 2.5       | <0.5 <sup>1)</sup> | 0.5                | 1.0                | 2.1                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |     |                    |                    |
| 3.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.7                | 1.2                | 1.8                | 2.6                | 4.7                | 6.6                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |     |                    |                    |
| 3.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.7                | 1.1                | 1.7                | 2.4                | 4.2                | 6.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |     |                    |                    |
| 4         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.7                | 1.0                | 1.5                | 2.1                | 3.6                | 5.0                | 10.0               | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |     |                    |                    |
| 5         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 0.8                | 1.2                | 1.7                | 2.8                | 3.8                | 8.7                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |     |                    |                    |
| 6         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.5                | 0.8                | 1.2                | 1.5                | 2.5                | 3.3                | 5.7                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |     |                    |                    |
| 8         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.5                | 0.8                | 1.1                | 1.5                | 2.3                | 2.9                | 4.9                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |     |                    |                    |
| 10        |                    |                    | 0.5                | 0.7                | 1.0                | 1.4                | 2.0                | 2.5                | 3.8                | 8.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |     |                    |                    |
| 13        |                    |                    |                    |                    |                    | 1.0                | 1.3                | 1.9                | 2.4                | 3.6                | 7.0                | 10.0 <sup>2)</sup> |     |                    |                    |
| 16        |                    |                    |                    |                    |                    |                    | 1.0                | 1.3                | 1.8                | 2.3                | 3.3                | 6.0                | 8.8 | 10.0 <sup>2)</sup> |                    |
| 20        |                    |                    |                    |                    |                    |                    |                    | 1.0                | 1.2                | 1.7                | 2.2                | 3.2                | 5.5 | 7.7                | 10.0 <sup>2)</sup> |
| 25        |                    |                    |                    |                    |                    |                    |                    |                    | 1.6                | 2.1                | 3.0                | 5.2                | 7.3 | 10.0 <sup>2)</sup> |                    |
| 32        |                    |                    |                    |                    |                    |                    |                    |                    |                    | 2.1                | 2.9                | 5.0                | 7.0 | 10.0 <sup>2)</sup> |                    |
| 40        |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    | 2.8                | 4.8                | 6.7 | 10.0               |                    |
| 50        |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    | 4.5                | 6.3 | 9.5                |                    |
| 63        |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    | 5.9 | 8.4                |                    |

Short circuit selectivity **characteristic D** towards fuse link **NH-00\***)

| FAZ       | NH-00 gL/gG        |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| $I_n$ [A] | 16                 | 20                 | 25                 | 32                 | 35                 | 40                 | 50                 | 63                 | 80                 | 100                | 125                | 160                |
| 0.5       | 2.1                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 1.0       | <0.5 <sup>1)</sup> | 0.6                | 1.4                | 4.3                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 1.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.9                | 1.6                | 2.7                | 4.0                | 8.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.8                | 1.3                | 2.1                | 3.1                | 6.0                | 8.6                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.7                | 1.2                | 1.8                | 2.6                | 4.8                | 6.9                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.7                | 1.1                | 1.7                | 2.4                | 4.3                | 6.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.7                | 1.1                | 1.7                | 2.4                | 4.2                | 5.6                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 4         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.7                | 1.0                | 1.6                | 2.2                | 3.8                | 5.2                | 10.0               | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 5         |                    | <0.5 <sup>1)</sup> | 0.6                | 0.9                | 1.4                | 1.9                | 3.2                | 4.1                | 7.1                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 6         |                    | <0.5 <sup>1)</sup> | 0.5                | 0.8                | 1.2                | 1.6                | 2.6                | 3.3                | 5.5                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 8         |                    |                    | 0.5                | 0.8                | 1.1                | 1.5                | 2.2                | 2.7                | 4.1                | 8.7                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 10        |                    |                    | 0.5                | 0.7                | 1.0                | 1.3                | 1.9                | 2.5                | 3.6                | 7.2                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 13        |                    |                    |                    | 1.0                | 1.3                | 1.9                | 2.3                | 3.4                | 6.5                | 9.5                | 10.0 <sup>2)</sup> |                    |
| 16        |                    |                    |                    |                    | 1.1                | 1.6                | 2.0                | 3.0                | 5.5                | 8.0                | 10.0 <sup>2)</sup> |                    |
| 20        |                    |                    |                    |                    |                    | 1.4                | 1.8                | 2.8                | 5.0                | 7.5                | 10.0 <sup>2)</sup> |                    |
| 25        |                    |                    |                    |                    |                    |                    | 1.8                | 2.7                | 4.8                | 7.0                | 10.0 <sup>2)</sup> |                    |
| 32        |                    |                    |                    |                    |                    |                    |                    | 2.4                | 4.1                | 6.2                | 9.3                |                    |
| 40        |                    |                    |                    |                    |                    |                    |                    |                    | 4.0                | 6.0                | 9.0                |                    |

<sup>1)</sup> Selectivity limit current  $I_s$  under 0.5 kA

<sup>2)</sup> Selectivity limit current  $I_s$  = rated breaking capacity  $I_{cn}$  of the MCB

Shaded fields: no selectivity





# FAZ | Specifications

## Short Circuit Selectivity FAZ towards D01-D03 fuse link



In case of short circuit, there is selectivity between the miniature circuit breakers FAZ and the upstream fuses up to the specified values of the selectivity limit current  $I_s$  [kA] (i. e. in case of short-circuit currents  $I_{ks}$  under  $I_s$ , only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

\*) basically in accordance with EN 60898-1 D.5.2.b

Short circuit selectivity **characteristic B** towards fuse link **D01-D03\***)

| FAZ       | D01-D03 gL/gG      |                    |                    |                    |                    |                    |                    |                    |                    |                    |
|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| $I_n$ [A] | 10                 | 16                 | 20                 | 25                 | 35                 | 50                 | 63                 | 80                 | 100                |                    |
| 1.0       | <0.5 <sup>1)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 1.5       | <0.5 <sup>1)</sup> | 4.1                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 1.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 1.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.5                | 1.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.5                | 0.9                | 7.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 4         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.5                | 0.9                | 2.5                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 5         |                    | <0.5 <sup>1)</sup> | 0.5                | 0.8                | 1.7                | 4.0                | 7.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |                    |
| 6         |                    | <0.5 <sup>1)</sup> | 0.5                | 0.8                | 1.6                | 3.6                | 6.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |                    |
| 8         |                    |                    | 0.5                | 0.8                | 1.4                | 2.8                | 4.3                | 8.2                | 10.0 <sup>2)</sup> |                    |
| 10        |                    |                    | 0.5                | 0.7                | 1.3                | 2.4                | 3.4                | 6.0                | 10.0 <sup>2)</sup> |                    |
| 13        |                    |                    | <0.5 <sup>1)</sup> | 0.7                | 1.2                | 2.3                | 3.2                | 5.3                | 10.0 <sup>2)</sup> |                    |
| 16        |                    |                    |                    | 0.6                | 1.1                | 2.2                | 2.9                | 4.6                | 10.0               |                    |
| 20        |                    |                    |                    |                    | 1.1                | 2.1                | 2.8                | 4.4                | 9.3                |                    |
| 25        |                    |                    |                    |                    | 1.1                | 2.0                | 2.7                | 4.2                | 8.7                |                    |
| 32        |                    |                    |                    |                    |                    | 2.0                | 2.6                | 4.0                | 8.0                |                    |
| 40        |                    |                    |                    |                    |                    |                    | 2.5                | 3.8                | 7.5                |                    |
| 50        |                    |                    |                    |                    |                    |                    | 2.3                | 3.4                | 6.7                |                    |
| 63        |                    |                    |                    |                    |                    |                    |                    |                    | 6.2                |                    |

Short circuit selectivity **characteristic C** towards fuse link **D01-D03\***)

| FAZ       | D01-D03 gL/gG      |                    |                    |                    |                    |                    |                    |                    |                    |                    |
|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| $I_n$ [A] | 10                 | 16                 | 20                 | 25                 | 35                 | 50                 | 63                 | 80                 | 100                |                    |
| 0.75      | <0.5 <sup>1)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 1.0       | <0.5 <sup>1)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 1.5       | <0.5 <sup>1)</sup> | 0.5                | 0.6                | 0.9                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.5                | 0.7                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.5                | 0.7                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 1.9                | 5.2                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 1.8                | 4.7                | 9.5                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 4         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 1.6                | 4.0                | 7.6                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 5         |                    | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.5                | 1.3                | 3.1                | 5.7                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 6         |                    | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 1.2                | 2.7                | 4.5                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 8         |                    | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 1.2                | 2.5                | 4.0                | 8.6                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 10        |                    |                    | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 1.2                | 2.3                | 3.1                | 5.4                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 13        |                    |                    |                    |                    | 1.1                | 2.2                | 3.0                | 4.9                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 16        |                    |                    |                    |                    | 1.1                | 2.1                | 2.8                | 4.4                | 9.5                | 10.0 <sup>2)</sup> |
| 20        |                    |                    |                    |                    | 1.0                | 2.0                | 2.6                | 4.0                | 8.3                | 10.0 <sup>2)</sup> |
| 25        |                    |                    |                    |                    |                    | 1.9                | 2.5                | 3.8                | 7.8                | 10.0 <sup>2)</sup> |
| 32        |                    |                    |                    |                    |                    |                    | 2.5                | 3.7                | 7.3                | 10.0 <sup>2)</sup> |
| 40        |                    |                    |                    |                    |                    |                    |                    | 3.5                | 7.0                | 10.0 <sup>2)</sup> |
| 50        |                    |                    |                    |                    |                    |                    |                    |                    | 6.5                | 10.0 <sup>2)</sup> |
| 63        |                    |                    |                    |                    |                    |                    |                    |                    |                    | 10.0 <sup>2)</sup> |

Short circuit selectivity **characteristic D** towards fuse link **D01-D03\***)

| FAZ       | D01-D03 gL/gG      |                    |                    |                    |                    |                    |                    |                    |                    |                    |
|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| $I_n$ [A] | 10                 | 16                 | 20                 | 25                 | 35                 | 50                 | 63                 | 80                 | 100                |                    |
| 0.5       | <0.5 <sup>1)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 1.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.7                | 1.3                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 1.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 0.9                | 2.8                | 9.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 0.8                | 2.2                | 6.7                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.5                | 0.7                | 1.9                | 5.4                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.5                | 0.7                | 1.8                | 4.8                | 9.3                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.5                | 0.7                | 1.7                | 4.7                | 8.6                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 4         |                    | <0.5 <sup>1)</sup> | 0.5                | 0.7                | 1.7                | 4.6                | 7.7                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 5         |                    | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 1.5                | 3.5                | 5.8                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 6         |                    |                    | <0.5 <sup>1)</sup> | 0.5                | 1.3                | 2.9                | 4.5                | 9.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 8         |                    |                    | <0.5 <sup>1)</sup> | 0.5                | 1.2                | 2.4                | 3.5                | 6.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 10        |                    |                    |                    | 0.5                | 1.1                | 2.2                | 3.0                | 5.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 13        |                    |                    |                    |                    | 1.1                | 2.1                | 2.9                | 4.6                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 16        |                    |                    |                    |                    |                    | 1.9                | 2.6                | 3.9                | 9.0                | 10.0 <sup>2)</sup> |
| 20        |                    |                    |                    |                    |                    | 1.7                | 2.3                | 3.5                | 8.0                | 10.0 <sup>2)</sup> |
| 25        |                    |                    |                    |                    |                    |                    | 2.2                | 3.4                | 7.5                | 10.0 <sup>2)</sup> |
| 32        |                    |                    |                    |                    |                    |                    |                    | 2.9                | 6.0                | 10.0 <sup>2)</sup> |
| 40        |                    |                    |                    |                    |                    |                    |                    |                    | 5.7                | 10.0 <sup>2)</sup> |

<sup>1)</sup> Selectivity limit current  $I_s$  under 0.5 kA

<sup>2)</sup> Selectivity limit current  $I_s$  = rated breaking capacity  $I_{cn}$  of the MCB

Shaded fields: no selectivity



# FAZ | Specifications

## Short Circuit Selectivity FAZ towards DII-DIV fuse link



In case of short circuit, there is selectivity between the miniature circuit breakers FAZ and the upstream fuses up to the specified values of the selectivity limit current  $I_s$  [kA] (i. e. in case of short-circuit currents  $I_{ks}$  under  $I_s$ , only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

\*) basically in accordance with EN 60898-1 D.5.2.b

| FAZ       | DII-DIV gL/gG      |                    |                    |                    |                    |                    |                    |                    |                    |                    |
|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| $I_n$ [A] | 10                 | 16                 | 20                 | 25                 | 35                 | 50                 | 63                 | 80                 | 100                |                    |
| 1.0       | <0.5 <sup>1)</sup> | 1.2                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 1.5       | <0.5 <sup>1)</sup> | 1.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.8                | 1.6                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.8                | 1.5                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.8                | 1.4                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.7                | 1.3                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 4         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 1.0                | 3.6                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 5         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 0.9                | 2.0                | 3.5                | 8.5                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 6         |                    | <0.5 <sup>1)</sup> | 0.6                | 0.9                | 1.8                | 3.2                | 7.4                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 8         |                    | <0.5 <sup>1)</sup> | 0.5                | 0.8                | 1.6                | 2.6                | 5.2                | 8.3                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 10        |                    |                    | 0.5                | 0.8                | 1.4                | 2.2                | 3.9                | 6.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 13        |                    |                    | 0.5                | 0.7                | 1.3                | 2.0                | 3.6                | 5.4                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 16        |                    |                    |                    | 0.6                | 1.2                | 1.9                | 3.2                | 4.6                | 8.4                | 10.0 <sup>2)</sup> |
| 20        |                    |                    |                    |                    | 1.2                | 1.8                | 3.1                | 4.4                | 7.8                | 10.0 <sup>2)</sup> |
| 25        |                    |                    |                    |                    | 1.2                | 1.8                | 3.0                | 4.2                | 7.3                | 10.0 <sup>2)</sup> |
| 32        |                    |                    |                    |                    |                    | 1.7                | 2.8                | 3.9                | 6.8                | 10.0 <sup>2)</sup> |
| 40        |                    |                    |                    |                    |                    |                    | 2.7                | 3.8                | 6.5                | 10.0 <sup>2)</sup> |
| 50        |                    |                    |                    |                    |                    |                    | 2.5                | 3.5                | 5.7                | 10.0 <sup>2)</sup> |
| 63        |                    |                    |                    |                    |                    |                    |                    |                    | 5.3                | 10.0 <sup>2)</sup> |

| FAZ       | DII-DIV gL/gG      |                    |                    |                    |                    |                    |                    |                    |                    |                    |
|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| $I_n$ [A] | 10                 | 16                 | 20                 | 25                 | 35                 | 50                 | 63                 | 80                 | 100                |                    |
| 0.75      | 1.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 1.0       | <0.5 <sup>1)</sup> | 1.2                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 1.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 1.0                | 2.2                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.8                | 1.6                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.8                | 1.4                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.8                | 0.9                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 0.9                | 2.2                | 4.5                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 4         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 0.8                | 1.8                | 3.6                | 9.7                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 5         | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 0.7                | 1.5                | 2.7                | 7.3                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 6         |                    | <0.5 <sup>1)</sup> | 0.5                | 0.6                | 1.4                | 2.4                | 5.5                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 8         |                    | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 1.3                | 2.2                | 4.7                | 8.7                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 10        |                    |                    | <0.5 <sup>1)</sup> | 0.6                | 1.3                | 2.0                | 3.6                | 5.4                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 13        |                    |                    |                    |                    | 1.3                | 1.9                | 3.3                | 5.0                | 9.4                | 10.0 <sup>2)</sup> |
| 16        |                    |                    |                    |                    | 1.2                | 1.8                | 3.2                | 4.4                | 8.0                | 10.0 <sup>2)</sup> |
| 20        |                    |                    |                    |                    | 1.2                | 1.8                | 3.1                | 4.1                | 7.0                | 10.0 <sup>2)</sup> |
| 25        |                    |                    |                    |                    |                    | 1.7                | 2.8                | 3.8                | 6.5                | 10.0 <sup>2)</sup> |
| 32        |                    |                    |                    |                    |                    |                    | 2.7                | 3.7                | 6.2                | 10.0 <sup>2)</sup> |
| 40        |                    |                    |                    |                    |                    |                    |                    | 3.5                | 5.9                | 10.0 <sup>2)</sup> |
| 50        |                    |                    |                    |                    |                    |                    |                    |                    | 5.5                | 10.0 <sup>2)</sup> |
| 63        |                    |                    |                    |                    |                    |                    |                    |                    |                    | 5.3                |

Short circuit selectivity **characteristic D** towards fuse link **DII-DIV\***

| FAZ       | DII-DIV gL/gG      |                    |                    |                    |                    |                    |                    |                    |                    |                    |
|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| $I_n$ [A] | 10                 | 16                 | 20                 | 25                 | 35                 | 50                 | 63                 | 80                 | 100                |                    |
| 0.5       | 0.5                | 3.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 1.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 1.0                | 2.4                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 1.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.7                | 1.2                | 3.5                | 7.7                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 1.0                | 2.8                | 5.8                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 2.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 1.4                | 2.3                | 4.6                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.0       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 0.9                | 2.3                | 4.3                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 3.5       | <0.5 <sup>1)</sup> | <0.5 <sup>1)</sup> | 0.6                | 0.9                | 2.1                | 4.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 4         |                    | <0.5 <sup>1)</sup> | 0.6                | 0.9                | 2.0                | 3.8                | 9.5                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 5         |                    | <0.5 <sup>1)</sup> | 0.5                | 0.7                | 1.7                | 3.1                | 7.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 6         |                    |                    | 0.5                | 0.7                | 1.5                | 2.6                | 5.3                | 9.1                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 8         |                    |                    | <0.5 <sup>1)</sup> | 0.7                | 1.4                | 2.2                | 3.9                | 6.0                | 10.0 <sup>2)</sup> | 10.0 <sup>2)</sup> |
| 10        |                    |                    |                    | 0.7                | 1.2                | 1.9                | 3.4                | 5.0                | 9.5                | 10.0 <sup>2)</sup> |
| 13        |                    |                    |                    |                    | 1.2                | 1.8                | 3.2                | 4.6                | 8.6                | 10.0 <sup>2)</sup> |
| 16        |                    |                    |                    |                    |                    | 1.6                | 2.7                | 4.0                | 7.4                | 10.0 <sup>2)</sup> |
| 20        |                    |                    |                    |                    |                    | 1.5                | 2.5                | 3.5                | 6.7                | 10.0 <sup>2)</sup> |
| 25        |                    |                    |                    |                    |                    |                    | 2.4                | 3.4                | 6.2                | 10.0 <sup>2)</sup> |
| 32        |                    |                    |                    |                    |                    |                    |                    | 2.8                | 5.0                | 10.0 <sup>2)</sup> |
| 40        |                    |                    |                    |                    |                    |                    |                    |                    | 4.8                | 10.0 <sup>2)</sup> |

1) Selectivity limit current  $I_s$  under 0.5 kA

2) Selectivity limit current  $I_s$  = rated breaking capacity  $I_{cn}$  of the MCB

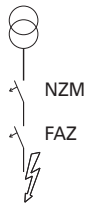
Shaded fields: no selectivity



# FAZ | Specifications

## Short-Circuit Selectivity

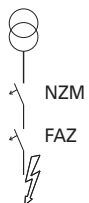
### Between FAZ-B and NZM 1/2



Selectivity-limit current  $I_s$  [kA] for selectivity between FAZ-B and NZM (overload and short-circuit release unit NZM at max. value).

| $I_n$ [A] | NZM...1-A...                  |     |     |     |     |     | NZM...2-A...                            |     |     |     |     |     |     |     |     |
|-----------|-------------------------------|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|
|           | $I_{cu} = 25 (50) \text{ kA}$ |     |     |     |     |     | $I_{cu} = 25 (50)(100)(150) \text{ kA}$ |     |     |     |     |     |     |     |     |
| FAZ-B     | 40                            | 50  | 63  | 80  | 100 | 125 | 40                                      | 50  | 63  | 80  | 100 | 125 | 160 | 200 | 250 |
| 1         | 15                            | 15  | 15  | 15  | 15  | 15  | 15                                      | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  |
| 2         | 2                             | 15  | 15  | 15  | 15  | 15  | 3                                       | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  |
| 3         | 1.2                           | 2   | 3   | 3   | 10  | 15  | 1.5                                     | 1.5 | 3   | 5   | 15  | 15  | 15  | 15  | 15  |
| 4         | 1.2                           | 2   | 3   | 3   | 8   | 15  | 1.2                                     | 1.5 | 3   | 4   | 15  | 15  | 15  | 15  | 15  |
| 6         | 1.2                           | 2   | 2.5 | 3   | 5   | 10  | 1.2                                     | 1.5 | 2.5 | 3   | 15  | 15  | 15  | 15  | 15  |
| 10        | 1.2                           | 1.5 | 2   | 2   | 4   | 10  | 1                                       | 1.5 | 2.5 | 3   | 10  | 10  | 10  | 10  | 10  |
| 13        | 1                             | 1.5 | 2   | 2   | 4   | 10  | 1                                       | 1.2 | 2   | 3   | 10  | 10  | 10  | 10  | 10  |
| 16        | 1                             | 1.2 | 1.5 | 2   | 3   | 8   | 1                                       | 1.2 | 1.5 | 2.5 | 10  | 10  | 10  | 10  | 10  |
| 20        | 0.8                           | 1.2 | 1.5 | 1.5 | 3   | 8   | 1                                       | 1.2 | 1.5 | 1.5 | 10  | 10  | 10  | 10  | 10  |
| 25        | 0.7                           | 1.2 | 1.5 | 1.5 | 3   | 7   | 0.8                                     | 1   | 1.5 | 2   | 10  | 10  | 10  | 10  | 10  |
| 32        | -                             | 1.2 | 1   | 1.5 | 2   | 6   | -                                       | 1   | 1.5 | 2   | 8   | 8   | 8   | 8   | 10  |
| 40        | -                             | -   | 1   | 1.5 | 2   | 5   | -                                       | -   | 1.2 | 1.5 | 7   | 7   | 7   | 7   | 10  |
| 50        | -                             | -   | -   | 1.2 | 1.5 | 4   | -                                       | -   | -   | 1.5 | 6   | 6   | 6   | 6   | 10  |
| 63        | -                             | -   | -   | -   | 1.5 | 3   | -                                       | -   | -   | -   | 6   | 6   | 6   | 6   | 10  |

### Between FAZ-C and NZM 1/2



Selectivity-limit current  $I_s$  [kA] for selectivity between FAZ-C and NZM (overload and short-circuit release unit NZM at max. value).

| $I_n$ [A] | NZM...1-A...                  |     |     |     |     |     | NZM...2-A...                            |     |     |     |     |     |     |     |     |
|-----------|-------------------------------|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|
|           | $I_{cu} = 25 (50) \text{ kA}$ |     |     |     |     |     | $I_{cu} = 25 (50)(100)(150) \text{ kA}$ |     |     |     |     |     |     |     |     |
| FAZ-C     | 40                            | 50  | 63  | 80  | 100 | 125 | 40                                      | 50  | 63  | 80  | 100 | 125 | 160 | 200 | 250 |
| 0.5       | 15                            | 15  | 15  | 15  | 15  | 15  | 15                                      | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  |
| 1         | 15                            | 15  | 15  | 15  | 15  | 15  | 15                                      | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  |
| 2         | 2                             | 15  | 15  | 15  | 15  | 15  | 3                                       | 15  | 15  | 15  | 15  | 15  | 15  | 15  | 15  |
| 3         | 1.2                           | 2   | 3   | 3   | 10  | 15  | 1.5                                     | 1.5 | 3   | 5   | 15  | 15  | 15  | 15  | 15  |
| 4         | 1.2                           | 2   | 3   | 3   | 8   | 15  | 1.2                                     | 1.5 | 3   | 4   | 15  | 15  | 15  | 15  | 15  |
| 6         | 1.2                           | 2   | 2.5 | 3   | 5   | 10  | 1.2                                     | 1.5 | 2.5 | 3   | 15  | 15  | 15  | 15  | 15  |
| 10        | 1.2                           | 1.5 | 2   | 2   | 4   | 10  | 1                                       | 1.5 | 2.5 | 3   | 10  | 10  | 10  | 10  | 10  |
| 13        | 1                             | 1.5 | 2   | 2   | 4   | 10  | 1                                       | 1.2 | 2   | 3   | 10  | 10  | 10  | 10  | 10  |
| 16        | 1                             | 1.2 | 1.5 | 2   | 3   | 8   | 1                                       | 1.2 | 1.5 | 2.5 | 10  | 10  | 10  | 10  | 10  |
| 20        | 0.8                           | 1.2 | 1.5 | 1.5 | 3   | 8   | 1                                       | 1.2 | 1.5 | 1.5 | 10  | 10  | 10  | 10  | 10  |
| 25        | 0.7                           | 1.2 | 1.5 | 1.5 | 3   | 7   | 0.8                                     | 1   | 1.5 | 2   | 10  | 10  | 10  | 10  | 10  |
| 32        | -                             | 1.2 | 1   | 1.5 | 2   | 6   | -                                       | 1   | 1.5 | 2   | 8   | 8   | 8   | 8   | 10  |
| 40        | -                             | -   | 1   | 1.5 | 2   | 5   | -                                       | -   | 1.2 | 1.5 | 7   | 7   | 7   | 7   | 10  |
| 50        | -                             | -   | -   | 1.2 | 1.5 | 4   | -                                       | -   | -   | 1.5 | 6   | 6   | 6   | 6   | 10  |
| 63        | -                             | -   | -   | -   | 1.5 | 3   | -                                       | -   | -   | -   | 6   | 6   | 6   | 6   | 10  |

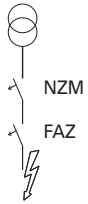




# FAZ | Specifications

## Short-Circuit Selectivity

### Between FAZ-D and NZM 1/2



Selectivity-limit current  $I_s$  [kA] for selectivity between FAZ-D and NZM (overload and short-circuit release unit NZM at max. value).

| $I_n$ [A] | NZM...1-A...                  |     |      |      |      |     | NZM...2-A...                            |     |      |      |      |     |     |     |     |
|-----------|-------------------------------|-----|------|------|------|-----|---|-----|------|------|------|-----|-----|-----|-----|
|           | $I_{cu} = 25 (50) \text{ kA}$ |     |      |      |      |     | $I_{cu} = 25 (50)(100)(150) \text{ kA}$ |     |      |      |      |     |     |     |     |
| FAZ-D     | 40                            | 50  | 63   | 80   | 100  | 125 | 40                                      | 50  | 63   | 80   | 100  | 125 | 160 | 200 | 250 |
| 0.5       | 9                             | 15  | 15   | 15   | 15   | 15  | 9                                       | 15  | 15   | 15   | 15   | 15  | 15  | 15  | 15  |
| 1         | 0.5                           | 0.7 | 1.1  | 1.9  | 4.2  | 15  | 0.5                                     | 0.7 | 1.1  | 1.9  | 4.2  | 15  | 15  | 15  | 15  |
| 1.5       | 0.3                           | 0.6 | 0.8  | 1.1  | 1.6  | 2.6 | 0.3                                     | 0.6 | 0.8  | 1.1  | 1.6  | 2.6 | 5   | 15  | 15  |
| 2         | 0.3                           | 0.5 | 0.75 | 0.95 | 1.4  | 2.4 | 0.3                                     | 0.5 | 0.75 | 0.95 | 1.4  | 2.4 | 4.5 | 10  | 15  |
| 2.5       | 0.3                           | 0.5 | 0.75 | 0.95 | 1.3  | 2.3 | 0.3                                     | 0.5 | 0.75 | 0.95 | 1.3  | 2.3 | 4.2 | 9   | 15  |
| 3         | 0.3                           | 0.5 | 0.7  | 0.9  | 1.3  | 2.1 | 0.3                                     | 0.5 | 0.7  | 0.9  | 1.3  | 2.1 | 3.6 | 7   | 15  |
| 3.5       | 0.3                           | 0.5 | 0.7  | 0.9  | 1.3  | 2   | 0.3                                     | 0.5 | 0.7  | 0.9  | 1.3  | 2   | 3.3 | 5.6 | 10  |
| 4         | 0.3                           | 0.5 | 0.7  | 0.9  | 1.3  | 1.9 | 0.3                                     | 0.5 | 0.7  | 0.9  | 1.3  | 1.9 | 3   | 4.7 | 8   |
| 5         | 0.3                           | 0.5 | 0.7  | 0.9  | 1.3  | 1.9 | 0.3                                     | 0.5 | 0.7  | 0.9  | 1.3  | 1.9 | 3   | 4.4 | 7   |
| 6         | 0.3                           | 0.5 | 0.6  | 0.9  | 1.3  | 1.8 | 0.3                                     | 0.5 | 0.6  | 0.9  | 1.3  | 1.8 | 2.8 | 4   | 6   |
| 8         | 0.3                           | 0.3 | 0.6  | 0.75 | 1    | 1.3 | 0.3                                     | 0.3 | 0.6  | 0.75 | 1    | 1.3 | 1.8 | 2.7 | 4   |
| 10        | 0.3                           | 0.3 | 0.6  | 0.75 | 0.95 | 1.2 | 0.3                                     | 0.3 | 0.6  | 0.75 | 0.95 | 1.2 | 1.7 | 2.4 | 3.6 |
| 13        | 0.3                           | 0.3 | 0.5  | 0.7  | 0.9  | 1.1 | 0.3                                     | 0.3 | 0.5  | 0.7  | 0.9  | 1.1 | 1.6 | 2.2 | 3.2 |
| 16        | -                             | 0.3 | 0.5  | 0.65 | 0.8  | 1.1 | -                                       | 0.3 | 0.5  | 0.65 | 0.8  | 1.1 | 1.5 | 2.1 | 3   |
| 20        | -                             | -   | 0.5  | 0.65 | 0.8  | 1.1 | -                                       | -   | 0.5  | 0.65 | 0.8  | 1.1 | 1.4 | 2.1 | 3   |
| 25        | -                             | -   | 0.5  | 0.65 | 0.8  | 1.1 | -                                       | -   | 0.5  | 0.65 | 0.8  | 1.1 | 1.4 | 1.9 | 2.7 |
| 32        | -                             | -   | -    | -    | 0.8  | 1.1 | -                                       | -   | -    | -    | 0.8  | 1.1 | 1.4 | 1.9 | 2.7 |
| 40        | -                             | -   | -    | -    | -    | 1   | -                                       | -   | -    | -    | -    | 1   | 1.4 | 1.8 | 2.6 |





# FAZ | Specifications

## Back-up Protection

### FAZ/C through PLHT/C

Upstream PLHT protects downstream FAZ up to the specified prospective short-circuit current. Test acc. to IEC 60947.2 -A.6

| $I_n$ [A] | PLHT/C    |    |    |    |    |    |    |     |       |
|-----------|-----------|----|----|----|----|----|----|-----|-------|
|           | $I_n$ [A] |    |    |    |    |    |    |     |       |
| FAZ/C     | 20        | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125   |
| 1         | 25        | 25 | 25 | 25 | 25 | 25 | 20 | 20  | 15 kA |
| 2         | 25        | 25 | 25 | 25 | 25 | 25 | 20 | 20  | 15 kA |
| 4         | 25        | 25 | 25 | 25 | 25 | 25 | 20 | 20  | 15 kA |
| 6         | 25        | 25 | 25 | 25 | 25 | 25 | 20 | 20  | 15 kA |
| 10        | 25        | 25 | 25 | 25 | 25 | 25 | 20 | 20  | 15 kA |
| 13        | 25        | 25 | 25 | 25 | 25 | 25 | 20 | 20  | 15 kA |
| 16        | 25        | 25 | 25 | 25 | 25 | 25 | 20 | 20  | 15 kA |
| 20        | 1)        | 25 | 25 | 25 | 25 | 25 | 20 | 20  | 15 kA |
| 25        | 1)        | 1) | 25 | 25 | 25 | 25 | 20 | 20  | 15 kA |
| 32        | 1)        | 1) | 1) | 25 | 25 | 25 | 20 | 20  | -     |
| 40        | 1)        | 1) | 1) | 1) | 25 | 25 | 20 | 20  | -     |
| 50        | 1)        | 1) | 1) | 1) | 1) | 25 | 20 | 20  | -     |
| 63        | 1)        | 1) | 1) | 1) | 1) | 1) | -  | -   | -     |

1)  $I_n$  (PLHT)  $\leq I_n$  (FAZ)

### FAZ / CL-PKZ0

Back-up tests acc. to EN/IEC 60947-2, App. A:  $U = 1.05 U_e$  (O - t - CO)

| $I_n$ [A] | FAZ- $I_n/1(2,3,4)/B(C)$ + CL-PKZ0<br>$U_e = 230/400$ V |
|-----------|---|
| 0.16      | 65 kA   |
| 0.25      | 65 kA   |
| 0.5       | 65 kA   |
| 0.75      | 65 kA   |
| 1         | 65 kA   |
| 1.5       | 65 kA   |
| 2         | 65 kA   |
| 2.5       | 65 kA   |
| 3         | 65 kA   |
| 3.5       | 65 kA   |
| 4         | 65 kA   |
| 5         | 45 kA   |
| 6         | 45 kA   |
| 8         | 45 kA   |
| 10        | 45 kA   |
| 12        | 45 kA   |
| 13        | 45 kA   |
| 15        | 45 kA   |
| 16        | 45 kA   |
| 20        | 45 kA   |
| 25        | 45 kA   |
| 32        | 45 kA   |
| 40        | 25 kA   |
| 50        | 25 kA   |
| 63        | 25 kA   |

### FAZ / NZM7

| $I_n$ [A] | FAZ- $I_n/1(2,3,4)/B(C)$ + NZM7-40(...100)<br>$U_e = 230/400$ V |
|-----------|---|
| 0.16      | 25 kA   |
| 0.25      | 25 kA   |
| 0.5       | 25 kA   |
| 0.75      | 25 kA   |
| 1         | 25 kA   |
| 1.5       | 25 kA   |
| 2         | 25 kA   |
| 2.5       | 25 kA   |
| 3         | 25 kA   |
| 3.5       | 25 kA   |
| 4         | 25 kA   |
| 5         | 20 kA   |
| 6         | 20 kA   |
| 8         | 20 kA   |
| 10        | 20 kA   |
| 12        | 20 kA   |
| 13        | 20 kA   |
| 15        | 20 kA   |
| 16        | 20 kA   |
| 20        | 18 kA   |
| 25        | 18 kA   |
| 32        | 18 kA   |
| 40        | 18 kA   |
| 50        | 15 kA   |
| 63        | 15 kA   |





# FAZ | Specifications

## Back-up Protection

### FAZ / NZMB1

$U_e = 230/400 \text{ V}$ :  $I_{cu}$  (FAZ) = 15 kA

$U_e = 230/400 \text{ V}$ :  $I_{cu}$  (NZMB1) = 25 kA

Back-up test acc. EN/IEC 60947-2, app. A:  $U = 1.05U_e$ , (O - t - CO)

(Settings NZMB1:  $I_r$ ,  $I_{rm}$  at max. volumes)

| $I_n$ [A] | <b>FAZ-<math>I_n/1(2,3,4)/B(C)</math> + NZMB1</b><br>$U_e = 230/400 \text{ V}$ |
|-----------|--|
| 0.16      | 25 kA  |
| 0.25      | 25 kA  |
| 0.5       | 25 kA  |
| 0.75      | 25 kA  |
| 1         | 25 kA  |
| 1.5       | 25 kA  |
| 2         | 25 kA  |
| 2.5       | 25 kA  |
| 3         | 25 kA  |
| 3.5       | 25 kA  |
| 4         | 25 kA  |
| 5         | 25 kA  |
| 6         | 25 kA  |
| 8         | 25 kA  |
| 10        | 25 kA  |
| 12        | 25 kA  |
| 13        | 25 kA  |
| 15        | 25 kA  |
| 16        | 25 kA  |
| 20        | 20 kA  |
| 25        | 20 kA  |
| 32        | 20 kA  |
| 40        | 20 kA  |
| 50        | 15 kA  |
| 63        | 15 kA  |

### FAZ / NZMN1

$U_e = 230/400 \text{ V}$ :  $I_{cu}$  (FAZ) = 15 kA

$U_e = 230/400 \text{ V}$ :  $I_{cu}$  (NZMN1) = 25 kA

Back-up test acc. EN/IEC 60947-2, app. A:  $U = 1.05U_e$ , (O - t - CO)

(Settings NZM at max. values)

| $I_n$ [A] | <b>FAZ-<math>I_n/1(2,3,4)/B(C)</math> + NZMN1</b><br>$U_e = 230/400 \text{ V}$ |
|-----------|--|
| 0.16      | 25 kA  |
| 0.25      | 25 kA  |
| 0.5       | 25 kA  |
| 0.75      | 25 kA  |
| 1         | 25 kA  |
| 1.5       | 25 kA  |
| 2         | 25 kA  |
| 2.5       | 25 kA  |
| 3         | 25 kA  |
| 3.5       | 25 kA  |
| 4         | 25 kA  |
| 5         | 25 kA  |
| 6         | 25 kA  |
| 8         | 25 kA  |
| 10        | 25 kA  |
| 12        | 25 kA  |
| 13        | 25 kA  |
| 15        | 25 kA  |
| 16        | 25 kA  |
| 20        | 20 kA  |
| 25        | 20 kA  |
| 32        | 20 kA  |
| 40        | 20 kA  |
| 50        | 15 kA  |
| 63        | 15 kA  |





# FAZ | Specifications

## Back-up Protection

### FAZ / NZMB2

$U_e = 230/400\text{ V}$ :  $I_{cu}$  (FAZ) = 15 kA

$U_e = 230/400\text{ V}$ :  $I_{cu}$  (NZMB2) = 25 kA

$U_e = 133/230\text{ V}$ :  $I_{cu}$  (FAZ) = 20 kA

$U_e = 133/230\text{ V}$ :  $I_{cu}$  (NZMB2) = 30 kA

Back-up test acc. EN/IEC 60947-2, app. A:  $U = 1.05U_e$ , (O - t - CO)

(Settings NZM at max. values)

| $I_n$ [A] | FAZ- $I_n/1(2,3,4)/B(C)$ + NZMB2 |                          |
|-----------|----------------------------------|--------------------------|
|           | $U_e = 230/400\text{ V}$         | $U_e = 133/230\text{ V}$ |
| 0.16      | 25 kA                            | 30 kA                    |
| 0.25      | 25 kA                            | 30 kA                    |
| 0.5       | 25 kA                            | 30 kA                    |
| 0.75      | 25 kA                            | 30 kA                    |
| 1         | 25 kA                            | 30 kA                    |
| 1.5       | 25 kA                            | 30 kA                    |
| 2         | 25 kA                            | 30 kA                    |
| 2.5       | 25 kA                            | 30 kA                    |
| 3         | 25 kA                            | 30 kA                    |
| 3.5       | 25 kA                            | 30 kA                    |
| 4         | 25 kA                            | 30 kA                    |
| 5         | 25 kA                            | 25 kA                    |
| 6         | 25 kA                            | 25 kA                    |
| 8         | 25 kA                            | 25 kA                    |
| 10        | 25 kA                            | 25 kA                    |
| 12        | 20 kA                            | 25 kA                    |
| 13        | 20 kA                            | 25 kA                    |
| 15        | 20 kA                            | 25 kA                    |
| 16        | 20 kA                            | 25 kA                    |
| 20        | 20 kA                            | 25 kA                    |
| 25        | 20 kA                            | 25 kA                    |
| 32        | 20 kA                            | 25 kA                    |
| 40        | 15 kA                            | 20 kA                    |
| 50        | 15 kA                            | 20 kA                    |
| 63        | 15 kA                            | 20 kA                    |

### FAZ / NZMN2

$U_e = 230/400\text{ V}$ :  $I_{cu}$  (FAZ) = 15 kA

$U_e = 230/400\text{ V}$ :  $I_{cu}$  (NZMN2) = 50 kA

$U_e = 133/230\text{ V}$ :  $I_{cu}$  (FAZ) = 20 kA

$U_e = 133/230\text{ V}$ :  $I_{cu}$  (NZMN2) = 85 kA

Back-up test acc. EN/IEC 60947-2, app. A:  $U = 1.05U_e$ , (O - t - CO)

(Settings NZM at max. values)

| $I_n$ [A] | FAZ- $I_n/1(2,3,4)/B(C)$ + NZMN2 |                          |
|-----------|----------------------------------|--------------------------|
|           | $U_e = 230/400\text{ V}$         | $U_e = 133/230\text{ V}$ |
| 0.16      | 50 kA                            | 85 kA                    |
| 0.25      | 50 kA                            | 85 kA                    |
| 0.5       | 50 kA                            | 85 kA                    |
| 0.75      | 50 kA                            | 85 kA                    |
| 1         | 50 kA                            | 85 kA                    |
| 1.5       | 50 kA                            | 85 kA                    |
| 2         | 50 kA                            | 85 kA                    |
| 2.5       | 50 kA                            | 85 kA                    |
| 3         | 50 kA                            | 85 kA                    |
| 3.5       | 50 kA                            | 85 kA                    |
| 4         | 50 kA                            | 85 kA                    |
| 5         | 50 kA                            | 80 kA                    |
| 6         | 50 kA                            | 80 kA                    |
| 8         | 50 kA                            | 80 kA                    |
| 10        | 50 kA                            | 80 kA                    |
| 12        | 30 kA                            | 60 kA                    |
| 13        | 30 kA                            | 60 kA                    |
| 15        | 30 kA                            | 60 kA                    |
| 16        | 30 kA                            | 60 kA                    |
| 20        | 30 kA                            | 60 kA                    |
| 25        | 30 kA                            | 60 kA                    |
| 32        | 30 kA                            | 60 kA                    |
| 40        | 20 kA                            | 40 kA                    |
| 50        | 20 kA                            | 40 kA                    |
| 63        | 20 kA                            | 40 kA                    |



# FAZ | Specifications

## Back-up Protection

### FAZ / NZMH2

$U_e = 230/400 \text{ V}$ :  $I_{cu}$  (FAZ) = 15 kA  
 $U_e = 230/400 \text{ V}$ :  $I_{cu}$  (NZMH2) = 150 kA  
 $U_e = 133/230 \text{ V}$ :  $I_{cu}$  (FAZ) = 20 kA  
 $U_e = 133/230 \text{ V}$ :  $I_{cu}$  (NZMH2) = 150 kA  
 Back-up test acc. EN/IEC 60947-2, app. A:  $U = 1.05U_e$ , (O - t - CO)  
 (Settings NZM at max. values)

| $I_n$ [A] | FAZ- $I_n/1(2,3,4)/B(C)$ + NZMH2 |                           |
|-----------|----------------------------------|---------------------------|
|           | $U_e = 230/400 \text{ V}$        | $U_e = 133/230 \text{ V}$ |
| 0.16      | 50 kA                            | 85 kA                     |
| 0.25      | 50 kA                            | 85 kA                     |
| 0.5       | 50 kA                            | 85 kA                     |
| 0.75      | 50 kA                            | 85 kA                     |
| 1         | 50 kA                            | 85 kA                     |
| 1.5       | 50 kA                            | 85 kA                     |
| 2         | 50 kA                            | 85 kA                     |
| 2.5       | 50 kA                            | 85 kA                     |
| 3         | 50 kA                            | 85 kA                     |
| 3.5       | 50 kA                            | 85 kA                     |
| 4         | 50 kA                            | 85 kA                     |
| 5         | 50 kA                            | 80 kA                     |
| 6         | 50 kA                            | 80 kA                     |
| 8         | 50 kA                            | 80 kA                     |
| 10        | 50 kA                            | 80 kA                     |
| 12        | 30 kA                            | 60 kA                     |
| 13        | 30 kA                            | 60 kA                     |
| 15        | 30 kA                            | 60 kA                     |
| 16        | 30 kA                            | 60 kA                     |
| 20        | 30 kA                            | 60 kA                     |
| 25        | 30 kA                            | 60 kA                     |
| 32        | 30 kA                            | 60 kA                     |
| 40        | 20 kA                            | 40 kA                     |
| 50        | 20 kA                            | 40 kA                     |
| 63        | 20 kA                            | 40 kA                     |

### FAZ / NZML2

$U_e = 230/400 \text{ V}$ :  $I_{cu}$  (FAZ) = 15 kA  
 $U_e = 230/400 \text{ V}$ :  $I_{cu}$  (NZML2) = 150 kA  
 $U_e = 133/230 \text{ V}$ :  $I_{cu}$  (FAZ) = 20 kA  
 $U_e = 133/230 \text{ V}$ :  $I_{cu}$  (NZML2) = 150 kA  
 Back-up test acc. EN/IEC 60947-2, app. A:  $U = 1.05U_e$ , (O - t - CO)  
 (Settings NZM at max. values)

| $I_n$ [A] | FAZ- $I_n/1(2,3,4)/B(C)$ + NZML2 |                           |
|-----------|----------------------------------|---------------------------|
|           | $U_e = 230/400 \text{ V}$        | $U_e = 133/230 \text{ V}$ |
| 0.16      | 50 kA                            | 85 kA                     |
| 0.25      | 50 kA                            | 85 kA                     |
| 0.5       | 50 kA                            | 85 kA                     |
| 0.75      | 50 kA                            | 85 kA                     |
| 1         | 50 kA                            | 85 kA                     |
| 1.5       | 50 kA                            | 85 kA                     |
| 2         | 50 kA                            | 85 kA                     |
| 2.5       | 50 kA                            | 85 kA                     |
| 3         | 50 kA                            | 85 kA                     |
| 3.5       | 50 kA                            | 85 kA                     |
| 4         | 50 kA                            | 85 kA                     |
| 5         | 50 kA                            | 80 kA                     |
| 6         | 50 kA                            | 80 kA                     |
| 8         | 50 kA                            | 80 kA                     |
| 10        | 50 kA                            | 80 kA                     |
| 12        | 30 kA                            | 60 kA                     |
| 13        | 30 kA                            | 60 kA                     |
| 15        | 30 kA                            | 60 kA                     |
| 16        | 30 kA                            | 60 kA                     |
| 20        | 30 kA                            | 60 kA                     |
| 25        | 30 kA                            | 60 kA                     |
| 32        | 30 kA                            | 60 kA                     |
| 40        | 20 kA                            | 40 kA                     |
| 50        | 20 kA                            | 40 kA                     |
| 63        | 20 kA                            | 40 kA                     |





# FAZ | Specifications

## Back-up Protection

### FAZ / NH

$U_e = 230\text{ V}$ :  $I_{cu}$  (FAZ) = 15 (10) kA (acc. to IEC/EN 60947)

$U_e = 500\text{ V}$ :  $I_{cu}$  (NH00 125 A gL / gG) = 120kA

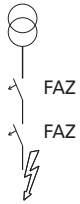
| $I_n$ [A] | <b>FAZ-I<sub>n</sub>/B,(C),(D)... + NH00 125 A gL/gG</b> |
|-----------|--|
|           | IT-system U = 230 V                                      |
| 0,5       | 50 kA  |
| 1         | 50 kA  |
| 2         | 50 kA  |
| 3         | 50 kA  |
| 4         | 50 kA  |
| 6         | 50 kA  |
| 10        | 50 kA  |
| 13        | 50 kA  |
| 16        | 50 kA  |
| 20        | 50 kA  |
| 25        | 50 kA  |
| 32        | 50 kA  |
| 40        | 50 kA  |
| 50        | 50 kA  |
| 63        | 50 kA  |



# FAZ | Specifications

## Overload Selectivity

### FAZ-B(C)(D) to FAZ-B



**Upstream side FAZ, Characteristic B**  
**Downstream side FAZ, Characteristic B, C, D**

x ... Selectivity range (i.e. only the downstream switch drops in case  $I < I_s$ )

| Upstream side →                         |    | FAZ Characteristic B |      |    |    |    |      |    |    |      |     |     |     |       |
|---|----|----------------------|------|----|----|----|------|----|----|------|-----|-----|-----|-------|
| Type B rated current $I_n$ [A]          |    | 2                    | 3    | 4  | 6  | 10 | 13   | 16 | 20 | 25   | 32  | 40  | 50  | 63    |
| Selectivity limiting current $I_s$ [A]  |    | 7                    | 10.5 | 14 | 21 | 35 | 45.5 | 56 | 70 | 87.5 | 112 | 140 | 175 | 220.5 |
| Downstream side<br>FAZ Characteristic B | 2  |                      | x    | x  | x  | x  | x    | x  | x  | x    | x   | x   | x   | x     |
|   | 3  |                      |      | x  | x  | x  | x    | x  | x  | x    | x   | x   | x   | x     |
|   | 4  |                      |      |    | x  | x  | x    | x  | x  | x    | x   | x   | x   | x     |
|   | 6  |                      |      |    |    | x  | x    | x  | x  | x    | x   | x   | x   | x     |
|   | 10 |                      |      |    |    |    | x    | x  | x  | x    | x   | x   | x   | x     |
|   | 13 |                      |      |    |    |    |      | x  | x  | x    | x   | x   | x   | x     |
|   | 16 |                      |      |    |    |    |      |    | x  | x    | x   | x   | x   | x     |
|   | 20 |                      |      |    |    |    |      |    |    | x    | x   | x   | x   | x     |
|   | 25 |                      |      |    |    |    |      |    |    |      | x   | x   | x   | x     |
|   | 32 |                      |      |    |    |    |      |    |    |      |     | x   | x   | x     |
|   | 40 |                      |      |    |    |    |      |    |    |      |     |     | x   | x     |
|   | 50 |                      |      |    |    |    |      |    |    |      |     |     |     | x     |
|   | 63 |                      |      |    |    |    |      |    |    |      |     |     |     |       |

| Upstream side →                         |     | FAZ Characteristic B |      |    |    |    |      |    |    |      |     |     |     |       |
|---|-----|----------------------|------|----|----|----|------|----|----|------|-----|-----|-----|-------|
| Type B rated current $I_n$ [A]          |     | 2                    | 3    | 4  | 6  | 10 | 13   | 16 | 20 | 25   | 32  | 40  | 50  | 63    |
| Selectivity limiting current $I_s$ [A]  |     | 7                    | 10.5 | 14 | 21 | 35 | 45.5 | 56 | 70 | 87.5 | 112 | 140 | 175 | 220.5 |
| Downstream side<br>FAZ Characteristic C | 0.5 | x                    | x    | x  | x  | x  | x    | x  | x  | x    | x   | x   | x   | x     |
|   | 1   | x                    | x    | x  | x  | x  | x    | x  | x  | x    | x   | x   | x   | x     |
|   | 2   |                      |      | x  | x  | x  | x    | x  | x  | x    | x   | x   | x   | x     |
|   | 3   |                      |      |    | x  | x  | x    | x  | x  | x    | x   | x   | x   | x     |
|   | 4   |                      |      |    |    | x  | x    | x  | x  | x    | x   | x   | x   | x     |
|   | 6   |                      |      |    |    |    | x    | x  | x  | x    | x   | x   | x   | x     |
|   | 8   |                      |      |    |    |    |      | x  | x  | x    | x   | x   | x   | x     |
|   | 10  |                      |      |    |    |    |      |    | x  | x    | x   | x   | x   | x     |
|   | 13  |                      |      |    |    |    |      |    |    | x    | x   | x   | x   | x     |
|   | 16  |                      |      |    |    |    |      |    |    |      | x   | x   | x   | x     |
|   | 20  |                      |      |    |    |    |      |    |    |      |     | x   | x   | x     |
|   | 25  |                      |      |    |    |    |      |    |    |      |     |     | x   | x     |
|   | 32  |                      |      |    |    |    |      |    |    |      |     |     |     | x     |
|   | 40  |                      |      |    |    |    |      |    |    |      |     |     |     |       |
| 50                                      |     |                      |      |    |    |    |      |    |    |      |     |     |     |       |
| 63                                      |     |                      |      |    |    |    |      |    |    |      |     |     |     |       |

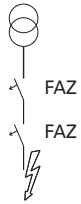
| Upstream side →                         |    | FAZ Characteristic B |      |    |    |    |      |    |    |      |     |     |     |       |
|---|----|----------------------|------|----|----|----|------|----|----|------|-----|-----|-----|-------|
| Type B rated current $I_n$ [A]          |    | 2                    | 3    | 4  | 6  | 10 | 13   | 16 | 20 | 25   | 32  | 40  | 50  | 63    |
| Selectivity limiting current $I_s$ [A]  |    | 7                    | 10.5 | 14 | 21 | 35 | 45.5 | 56 | 70 | 87.5 | 112 | 140 | 175 | 220.5 |
| Downstream side<br>FAZ Characteristic D | 2  |                      |      |    |    | x  | x    | x  | x  | x    | x   | x   | x   | x     |
|   | 4  |                      |      |    |    |    |      | x  | x  | x    | x   | x   | x   | x     |
|   | 6  |                      |      |    |    |    |      |    | x  | x    | x   | x   | x   | x     |
|   | 10 |                      |      |    |    |    |      |    |    | x    | x   | x   | x   | x     |
|   | 13 |                      |      |    |    |    |      |    |    |      | x   | x   | x   | x     |
|   | 16 |                      |      |    |    |    |      |    |    |      |     | x   | x   | x     |
|   | 20 |                      |      |    |    |    |      |    |    |      |     |     | x   | x     |
|   | 25 |                      |      |    |    |    |      |    |    |      |     |     |     | x     |
|   | 32 |                      |      |    |    |    |      |    |    |      |     |     |     |       |
|   | 40 |                      |      |    |    |    |      |    |    |      |     |     |     |       |



# FAZ | Specifications

## Overload Selectivity

### FAZ-B(C)(D) to FAZ-C



**Upstream side FAZ, Characteristic C**  
**Downstream side FAZ, Characteristic B, C, D**

x ... Selectivity range (i.e. only the downstream switch drops in case  $I < I_s$ )

| Upstream side →                         |    | FAZ Characteristic C |     |      |      |      |      |      |    |      |      |     |       |       |     |     |       |
|---|----|----------------------|-----|------|------|------|------|------|----|------|------|-----|-------|-------|-----|-----|-------|
| Type B rated current $I_n$ [A]          |    | 0.5                  | 1   | 2    | 3    | 4    | 6    | 8    | 10 | 13   | 16   | 20  | 25    | 32    | 40  | 50  | 63    |
| Selectivity limiting current $I_s$ [A]  |    | 2.85                 | 5.7 | 11.4 | 17.1 | 22.8 | 34.2 | 45.6 | 57 | 74.1 | 91.2 | 114 | 142.5 | 182.4 | 228 | 285 | 359.1 |
| Downstream side<br>FAZ Characteristic B | 2  |                      |     |      | x    | x    | x    | x    | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 3  |                      |     |      |      | x    | x    | x    | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 4  |                      |     |      |      |      | x    | x    | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 6  |                      |     |      |      |      |      | x    | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 10 |                      |     |      |      |      |      |      | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 13 |                      |     |      |      |      |      |      |    | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 16 |                      |     |      |      |      |      |      |    |      | x    | x   | x     | x     | x   | x   | x     |
|   | 20 |                      |     |      |      |      |      |      |    |      |      | x   | x     | x     | x   | x   | x     |
|   | 25 |                      |     |      |      |      |      |      |    |      |      |     | x     | x     | x   | x   | x     |
|   | 32 |                      |     |      |      |      |      |      |    |      |      |     |       | x     | x   | x   | x     |
|   | 40 |                      |     |      |      |      |      |      |    |      |      |     |       |       | x   | x   | x     |
|   | 50 |                      |     |      |      |      |      |      |    |      |      |     |       |       |     | x   | x     |
|   | 63 |                      |     |      |      |      |      |      |    |      |      |     |       |       |     |     | x     |

| Upstream side →                         |     | FAZ Characteristic C |     |      |      |      |      |      |    |      |      |     |       |       |     |     |       |
|---|-----|----------------------|-----|------|------|------|------|------|----|------|------|-----|-------|-------|-----|-----|-------|
| Type B rated current $I_n$ [A]          |     | 0.5                  | 1   | 2    | 3    | 4    | 6    | 8    | 10 | 13   | 16   | 20  | 25    | 32    | 40  | 50  | 63    |
| Selectivity limiting current $I_s$ [A]  |     | 2.85                 | 5.7 | 11.4 | 17.1 | 22.8 | 34.2 | 45.6 | 57 | 74.1 | 91.2 | 114 | 142.5 | 182.4 | 228 | 285 | 359.1 |
| Downstream side<br>FAZ Characteristic C | 0.5 |                      | x   | x    | x    | x    | x    | x    | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 1   |                      |     | x    | x    | x    | x    | x    | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 2   |                      |     |      | x    | x    | x    | x    | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 3   |                      |     |      |      | x    | x    | x    | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 4   |                      |     |      |      |      | x    | x    | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 6   |                      |     |      |      |      |      | x    | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 8   |                      |     |      |      |      |      |      | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 10  |                      |     |      |      |      |      |      |    | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 13  |                      |     |      |      |      |      |      |    |      | x    | x   | x     | x     | x   | x   | x     |
|   | 16  |                      |     |      |      |      |      |      |    |      |      | x   | x     | x     | x   | x   | x     |
|   | 20  |                      |     |      |      |      |      |      |    |      |      |     | x     | x     | x   | x   | x     |
|   | 25  |                      |     |      |      |      |      |      |    |      |      |     |       | x     | x   | x   | x     |
|   | 32  |                      |     |      |      |      |      |      |    |      |      |     |       |       | x   | x   | x     |
| 40                                      |     |                      |     |      |      |      |      |      |    |      |      |     |       |       | x   | x   |       |
| 50                                      |     |                      |     |      |      |      |      |      |    |      |      |     |       |       |     | x   | x     |
| 63                                      |     |                      |     |      |      |      |      |      |    |      |      |     |       |       |     |     | x     |

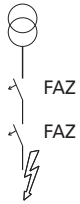
| Upstream side →                         |    | FAZ Characteristic C |     |      |      |      |      |      |    |      |      |     |       |       |     |     |       |
|---|----|----------------------|-----|------|------|------|------|------|----|------|------|-----|-------|-------|-----|-----|-------|
| Type B rated current $I_n$ [A]          |    | 0.5                  | 1   | 2    | 3    | 4    | 6    | 8    | 10 | 13   | 16   | 20  | 25    | 32    | 40  | 50  | 63    |
| Selectivity limiting current $I_s$ [A]  |    | 2.85                 | 5.7 | 11.4 | 17.1 | 22.8 | 34.2 | 45.6 | 57 | 74.1 | 91.2 | 114 | 142.5 | 182.4 | 228 | 285 | 359.1 |
| Downstream side<br>FAZ Characteristic D | 2  |                      |     |      |      |      | x    | x    | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 4  |                      |     |      |      |      |      | x    | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 6  |                      |     |      |      |      |      |      | x  | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 10 |                      |     |      |      |      |      |      |    | x    | x    | x   | x     | x     | x   | x   | x     |
|   | 13 |                      |     |      |      |      |      |      |    |      | x    | x   | x     | x     | x   | x   | x     |
|   | 16 |                      |     |      |      |      |      |      |    |      |      | x   | x     | x     | x   | x   | x     |
|   | 20 |                      |     |      |      |      |      |      |    |      |      |     | x     | x     | x   | x   | x     |
|   | 25 |                      |     |      |      |      |      |      |    |      |      |     |       | x     | x   | x   | x     |
|   | 32 |                      |     |      |      |      |      |      |    |      |      |     |       |       | x   | x   | x     |
|   | 40 |                      |     |      |      |      |      |      |    |      |      |     |       |       |     | x   | x     |



# FAZ | Specifications

## Overload Selectivity

### FAZ-B(C)(D) to FAZ-D



**Upstream side FAZ, Characteristic D**  
**Downstream side FAZ, Characteristic B, C, D**

x ... Selectivity range (i.e. only the downstream switch drops in case  $I < I_s$ )

| Upstream side →                         | FAZ Characteristic D |    |    |     |       |     |     |       |     |     |   |
|---|----------------------|----|----|-----|-------|-----|-----|-------|-----|-----|---|
| Type B rated current $I_n$ [A]          | 2                    | 4  | 6  | 10  | 13    | 16  | 20  | 25    | 32  | 40  |   |
| Selectivity limiting current $I_s$ [A]  | 21                   | 42 | 63 | 105 | 136.5 | 168 | 210 | 262.5 | 336 | 420 |   |
| Downstream side<br>FAZ Characteristic B | 2                    | x  | x  | x   | x     | x   | x   | x     | x   | x   |   |
|   | 3                    | x  | x  | x   | x     | x   | x   | x     | x   | x   |   |
|   | 4                    |    |    | x   | x     | x   | x   | x     | x   | x   |   |
|   | 6                    |    |    |     | x     | x   | x   | x     | x   | x   |   |
|   | 10                   |    |    |     |       | x   | x   | x     | x   | x   |   |
|   | 13                   |    |    |     |       |     | x   | x     | x   | x   |   |
|   | 16                   |    |    |     |       |     |     | x     | x   | x   |   |
|   | 20                   |    |    |     |       |     |     |       | x   | x   |   |
|   | 25                   |    |    |     |       |     |     |       |     | x   | x |
|   | 32                   |    |    |     |       |     |     |       |     |     | x |
|   | 40                   |    |    |     |       |     |     |       |     |     |   |
|   | 50                   |    |    |     |       |     |     |       |     |     |   |
|   | 63                   |    |    |     |       |     |     |       |     |     |   |

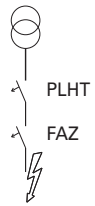
| Upstream side →                         | FAZ Characteristic D |    |    |     |       |     |     |       |     |     |   |   |
|---|----------------------|----|----|-----|-------|-----|-----|-------|-----|-----|---|---|
| Type B rated current $I_n$ [A]          | 2                    | 4  | 6  | 10  | 13    | 16  | 20  | 25    | 32  | 40  |   |   |
| Selectivity limiting current $I_s$ [A]  | 21                   | 42 | 63 | 105 | 136.5 | 168 | 210 | 262.5 | 336 | 420 |   |   |
| Downstream side<br>FAZ Characteristic C | 0.5                  | x  | x  | x   | x     | x   | x   | x     | x   | x   |   |   |
|   | 1                    | x  | x  | x   | x     | x   | x   | x     | x   | x   |   |   |
|   | 2                    |    | x  | x   | x     | x   | x   | x     | x   | x   |   |   |
|   | 3                    |    | x  | x   | x     | x   | x   | x     | x   | x   |   |   |
|   | 4                    |    |    | x   | x     | x   | x   | x     | x   | x   |   |   |
|   | 6                    |    |    |     | x     | x   | x   | x     | x   | x   |   |   |
|   | 8                    |    |    |     |       | x   | x   | x     | x   | x   |   |   |
|   | 10                   |    |    |     |       |     | x   | x     | x   | x   |   |   |
|   | 13                   |    |    |     |       |     |     | x     | x   | x   |   |   |
|   | 16                   |    |    |     |       |     |     |       | x   | x   | x |   |
|   | 20                   |    |    |     |       |     |     |       |     | x   | x |   |
|   | 25                   |    |    |     |       |     |     |       |     |     | x | x |
|   | 32                   |    |    |     |       |     |     |       |     |     |   | x |
|   | 40                   |    |    |     |       |     |     |       |     |     |   |   |
|   | 50                   |    |    |     |       |     |     |       |     |     |   |   |
| 63                                      |                      |    |    |     |       |     |     |       |     |     |   |   |

| Upstream side →                         | FAZ Characteristic D |    |    |     |       |     |     |       |     |     |   |
|---|----------------------|----|----|-----|-------|-----|-----|-------|-----|-----|---|
| Type B rated current $I_n$ [A]          | 2                    | 4  | 6  | 10  | 13    | 16  | 20  | 25    | 32  | 40  |   |
| Selectivity limiting current $I_s$ [A]  | 21                   | 42 | 63 | 105 | 136.5 | 168 | 210 | 262.5 | 336 | 420 |   |
| Downstream side<br>FAZ Characteristic D | 2                    | x  | x  | x   | x     | x   | x   | x     | x   | x   |   |
|   | 4                    |    |    | x   | x     | x   | x   | x     | x   | x   |   |
|   | 6                    |    |    |     | x     | x   | x   | x     | x   | x   |   |
|   | 10                   |    |    |     |       | x   | x   | x     | x   | x   |   |
|   | 13                   |    |    |     |       |     | x   | x     | x   | x   |   |
|   | 16                   |    |    |     |       |     |     | x     | x   | x   |   |
|   | 20                   |    |    |     |       |     |     |       | x   | x   | x |
|   | 25                   |    |    |     |       |     |     |       |     | x   | x |
|   | 32                   |    |    |     |       |     |     |       |     |     | x |
|   | 40                   |    |    |     |       |     |     |       |     |     |   |

# FAZ | Specifications

## Overload Selectivity

### FAZ-B(C)(D) to PLHT-B



**Upstream side PLHT, Characteristic B**  
**Downstream side FAZ, Characteristic B, C, D**

x ... Selectivity range (i.e. only the downstream switch drops in case  $I < I_s$ )

| Upstream side →                         |    | PLHT Characteristic B |    |     |     |     |     |     |     |     |   |  |  |
|---|----|-----------------------|----|-----|-----|-----|-----|-----|-----|-----|---|--|--|
| Type B rated current $I_n$ [A]          |    | 20                    | 25 | 32  | 40  | 50  | 63  | 80  | 100 | 125 |   |  |  |
| Selectivity limiting current $I_s$ [A]  |    | 65                    | 81 | 104 | 130 | 163 | 205 | 260 | 325 | 406 |   |  |  |
| Downstream side<br>FAZ Characteristic B | 2  | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 3  | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 4  | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 6  | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 10 | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 13 | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 16 | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 20 |                       | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 25 |                       |    | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 32 |                       |    |     | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 40 |                       |    |     |     | x   | x   | x   | x   | x   | x |  |  |
|   | 50 |                       |    |     |     |     | x   | x   | x   | x   | x |  |  |
| 63                                      |    |                       |    |     |     |     | x   | x   | x   | x   |   |  |  |

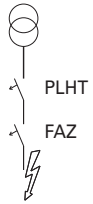
| Upstream side →                         |     | PLHT Characteristic B |    |     |     |     |     |     |     |     |   |  |  |
|---|-----|-----------------------|----|-----|-----|-----|-----|-----|-----|-----|---|--|--|
| Type B rated current $I_n$ [A]          |     | 20                    | 25 | 32  | 40  | 50  | 63  | 80  | 100 | 125 |   |  |  |
| Selectivity limiting current $I_s$ [A]  |     | 65                    | 81 | 104 | 130 | 163 | 205 | 260 | 325 | 406 |   |  |  |
| Downstream side<br>FAZ Characteristic C | 0.5 | x                     | x  | x   | x   | x   | x   | x   | x   | x   |   |  |  |
|   | 1   | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 2   | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 3   | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 4   | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 6   | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 8   | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 10  | x                     | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 13  |                       | x  | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 16  |                       |    | x   | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 20  |                       |    |     | x   | x   | x   | x   | x   | x   | x |  |  |
|   | 25  |                       |    |     |     | x   | x   | x   | x   | x   | x |  |  |
|   | 32  |                       |    |     |     |     | x   | x   | x   | x   | x |  |  |
|   | 40  |                       |    |     |     |     |     | x   | x   | x   | x |  |  |
|   | 50  |                       |    |     |     |     |     |     | x   | x   | x |  |  |
| 63                                      |     |                       |    |     |     |     |     |     | x   | x   |   |  |  |

| Upstream side →                         |    | PLHT Characteristic B |    |     |     |     |     |     |     |     |  |  |
|---|----|-----------------------|----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Type B rated current $I_n$ [A]          |    | 20                    | 25 | 32  | 40  | 50  | 63  | 80  | 100 | 125 |  |  |
| Selectivity limiting current $I_s$ [A]  |    | 65                    | 81 | 104 | 130 | 163 | 205 | 260 | 325 | 406 |  |  |
| Downstream side<br>FAZ Characteristic D | 2  | x                     | x  | x   | x   | x   | x   | x   | x   | x   |  |  |
|   | 4  | x                     | x  | x   | x   | x   | x   | x   | x   | x   |  |  |
|   | 6  |                       | x  | x   | x   | x   | x   | x   | x   | x   |  |  |
|   | 10 |                       |    |     | x   | x   | x   | x   | x   | x   |  |  |
|   | 13 |                       |    |     |     | x   | x   | x   | x   | x   |  |  |
|   | 16 |                       |    |     |     |     | x   | x   | x   | x   |  |  |
|   | 20 |                       |    |     |     |     |     | x   | x   | x   |  |  |
|   | 25 |                       |    |     |     |     |     |     | x   | x   |  |  |
|   | 32 |                       |    |     |     |     |     |     |     | x   |  |  |
|   | 40 |                       |    |     |     |     |     |     |     |     |  |  |

# FAZ | Specifications

## Overload Selectivity

### FAZ-B(C)(D) to PLHT-C



**Upstream side PLHT, Characteristic C**  
**Downstream side FAZ, Characteristic B, C, D**

x ... Selectivity range (i.e. only the downstream switch drops in case  $I < I_s$ )

| Upstream side →                         |    | PLHT Characteristic C |     |     |     |     |     |     |     |     |  |
|---|----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Type B rated current $I_n$ [A]          |    | 20                    | 25  | 32  | 40  | 50  | 63  | 80  | 100 | 125 |  |
| Selectivity limiting current $I_s$ [A]  |    | 130                   | 163 | 208 | 260 | 325 | 410 | 520 | 650 | 813 |  |
| Downstream side<br>FAZ Characteristic B | 2  | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 3  | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 4  | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 6  | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 10 | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 13 | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 16 | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 20 |                       | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 25 |                       |     | x   | x   | x   | x   | x   | x   | x   |  |
|   | 32 |                       |     |     | x   | x   | x   | x   | x   | x   |  |
|   | 40 |                       |     |     |     | x   | x   | x   | x   | x   |  |
|   | 50 |                       |     |     |     |     | x   | x   | x   | x   |  |
| 63                                      |    |                       |     |     |     |     | x   | x   | x   |     |  |

| Upstream side →                         |     | PLHT Characteristic C |     |     |     |     |     |     |     |     |  |
|---|-----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Type B rated current $I_n$ [A]          |     | 20                    | 25  | 32  | 40  | 50  | 63  | 80  | 100 | 125 |  |
| Selectivity limiting current $I_s$ [A]  |     | 130                   | 163 | 208 | 260 | 325 | 410 | 520 | 650 | 813 |  |
| Downstream side<br>FAZ Characteristic C | 0.5 | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 1   | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 2   | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 3   | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 4   | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 6   | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 8   | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 10  | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 13  | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 16  | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 20  |                       | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 25  |                       |     | x   | x   | x   | x   | x   | x   | x   |  |
|   | 32  |                       |     |     | x   | x   | x   | x   | x   | x   |  |
|   | 40  |                       |     |     |     | x   | x   | x   | x   | x   |  |
|   | 50  |                       |     |     |     |     | x   | x   | x   | x   |  |
| 63                                      |     |                       |     |     |     |     | x   | x   | x   |     |  |

| Upstream side →                         |    | PLHT Characteristic C |     |     |     |     |     |     |     |     |  |
|---|----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Type B rated current $I_n$ [A]          |    | 20                    | 25  | 32  | 40  | 50  | 63  | 80  | 100 | 125 |  |
| Selectivity limiting current $I_s$ [A]  |    | 130                   | 163 | 208 | 260 | 325 | 410 | 520 | 650 | 813 |  |
| Downstream side<br>FAZ Characteristic D | 2  | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 4  | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 6  | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 10 | x                     | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 13 |                       | x   | x   | x   | x   | x   | x   | x   | x   |  |
|   | 16 |                       |     | x   | x   | x   | x   | x   | x   | x   |  |
|   | 20 |                       |     |     | x   | x   | x   | x   | x   | x   |  |
|   | 25 |                       |     |     |     | x   | x   | x   | x   | x   |  |
|   | 32 |                       |     |     |     |     | x   | x   | x   | x   |  |
|   | 40 |                       |     |     |     |     |     | x   | x   | x   |  |

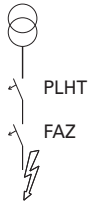




# FAZ | Specifications

## Overload Selectivity

### FAZ-B(C)(D) to PLHT-D



**Upstream side PLHT, Characteristic D**  
**Downstream side FAZ, Characteristic B, C, D**

x ... Selectivity range (i.e. only the downstream switch drops in case  $I < I_s$ )

| Upstream side →                         |    | PLHT Characteristic D |     |     |     |     |     |     |      |
|---|----|-----------------------|-----|-----|-----|-----|-----|-----|------|
| Type B rated current $I_n$ [A]          |    | 20                    | 25  | 32  | 40  | 50  | 63  | 80  | 100  |
| Selectivity limiting current $I_s$ [A]  |    | 230                   | 285 | 365 | 450 | 550 | 680 | 850 | 1020 |
| Downstream side<br>FAZ Characteristic B | 2  | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 3  | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 4  | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 6  | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 10 | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 13 | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 16 | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 20 |                       | x   | x   | x   | x   | x   | x   | x    |
|   | 25 |                       |     | x   | x   | x   | x   | x   | x    |
|   | 32 |                       |     |     | x   | x   | x   | x   | x    |
|   | 40 |                       |     |     |     | x   | x   | x   | x    |
|   | 50 |                       |     |     |     |     | x   | x   | x    |
| 63                                      |    |                       |     |     |     |     | x   | x   |      |

| Upstream side →                         |     | PLHT Characteristic D |     |     |     |     |     |     |      |
|---|-----|-----------------------|-----|-----|-----|-----|-----|-----|------|
| Type B rated current $I_n$ [A]          |     | 20                    | 25  | 32  | 40  | 50  | 63  | 80  | 100  |
| Selectivity limiting current $I_s$ [A]  |     | 230                   | 285 | 365 | 450 | 550 | 680 | 850 | 1020 |
| Downstream side<br>FAZ Characteristic C | 0.5 | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 1   | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 2   | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 3   | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 4   | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 6   | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 8   | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 10  | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 13  | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 16  | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 20  |                       | x   | x   | x   | x   | x   | x   | x    |
|   | 25  |                       |     | x   | x   | x   | x   | x   | x    |
|   | 32  |                       |     |     | x   | x   | x   | x   | x    |
|   | 40  |                       |     |     |     | x   | x   | x   | x    |
|   | 50  |                       |     |     |     |     | x   | x   | x    |
| 63                                      |     |                       |     |     |     |     | x   | x   |      |

| Upstream side →                         |    | PLHT Characteristic D |     |     |     |     |     |     |      |
|---|----|-----------------------|-----|-----|-----|-----|-----|-----|------|
| Type B rated current $I_n$ [A]          |    | 20                    | 25  | 32  | 40  | 50  | 63  | 80  | 100  |
| Selectivity limiting current $I_s$ [A]  |    | 230                   | 285 | 365 | 450 | 550 | 680 | 850 | 1020 |
| Downstream side<br>FAZ Characteristic D | 2  | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 4  | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 6  | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 10 | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 13 | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 16 | x                     | x   | x   | x   | x   | x   | x   | x    |
|   | 20 |                       | x   | x   | x   | x   | x   | x   | x    |
|   | 25 |                       |     | x   | x   | x   | x   | x   | x    |
| 32                                      |    |                       |     | x   | x   | x   | x   | x   |      |
| 40                                      |    |                       |     |     | x   | x   | x   | x   |      |





# FAZ | Specifications

## Influence of the Line Frequency

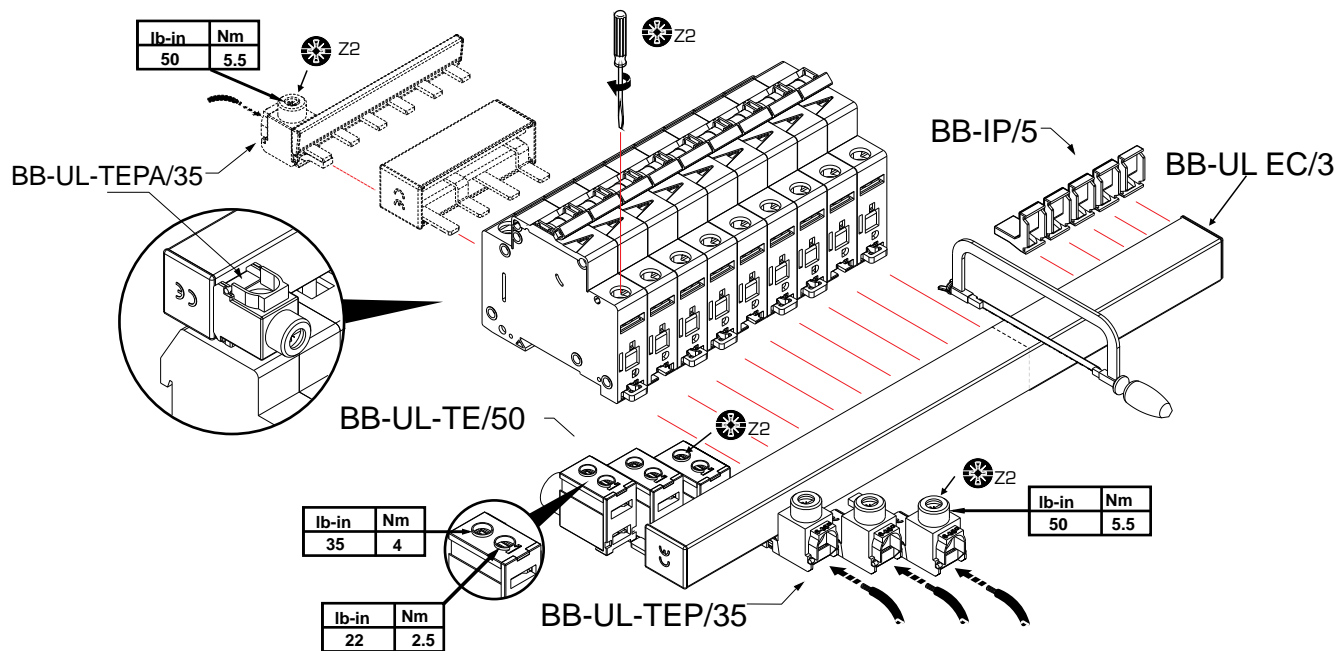
On the Instantaneous Tripping Current  $I_{MA}$




|                              | Line Frequency f [Hz] |     |     |     |     |     |     |
|------------------------------|-----------------------|-----|-----|-----|-----|-----|-----|
|                              | $16\frac{2}{3}$       | 50  | 60  | 100 | 200 | 300 | 400 |
| $I_{MA}(f)/I_{MA}(50Hz)$ [%] | 91                    | 100 | 101 | 106 | 115 | 134 | 141 |

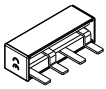


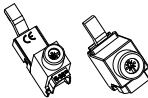


# FAZ | Busbars

## UL508 Busbars for FAZ



|   |                         |                              |
|---|-------------------------|------------------------------|
| <b>BB-UL-TE/50</b>  |                         |                              |
|  | <b>UL508</b>            | <b>EN/IEC 60947-2</b>        |
| $U_e$   | 480 V AC                | 240/690V AC                  |
| $f$   | 50/60 Hz                | 50/60 Hz                     |
| $I_e$   | 115 A @ 40°C            | 160 A @ 30°C                 |
|  | #1-14 AWG<br>60/75°C Cu | 1.5–50 mm <sup>2</sup><br>Cu |
|  | 0.56 in                 | 14 mm                        |

|  |                   |                       |
|--|-------------------|-----------------------|
| <b>BB-UL</b>   |                   |                       |
|  | <b>UL508</b>      | <b>EN/IEC 60947-2</b> |
| $U_e$  | 480 V AC          | 690V AC               |
| $f$  | 50/60 Hz          |                       |
| $I_{pk}$   | 10kA              | 15kA                  |
| $I_e$  | 18mm <sup>2</sup> | 25mm <sup>2</sup>     |
| Infeed at the start of the busbar  | 80A@40 °C         | 100A@30°C             |
| Infeed at the center of the busbar   | 160A@40°C         | 200A@30°C             |

|   |                         |                              |
|---|-------------------------|------------------------------|
| <b>BB-UL-TEP/35 / BB-UL-TEPA/35</b>   |                         |                              |
|  | <b>UL508</b>            | <b>EN/IEC 60947-2</b>        |
| $U_e$   | 480 V AC                | 240/690V AC                  |
| $f$   | 50/60 Hz                | 50/60 Hz                     |
| $I_e$   | 115 A@40°C              | 80 A@30°C                    |
|  | #2-14 AWG<br>60/75°C Cu | 2.5–35 mm <sup>2</sup><br>Cu |
|  | 0.56 in                 | 14 mm                        |








### \*-UL508 SHORT CIRCUIT RATINGS

- SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 10,000 RMS SYMETRICAL AMPERES, 600 VOLTS MAXIMUM.
- SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 100,000 RMS SYMETRICAL AMPERES, 600 VOLTS MAXIMUM WHEN PROTECTED BY A CLASS J FUSE RATED 175A.



# FAZ | Busbars

## BB Busbars


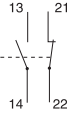
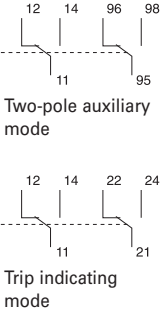


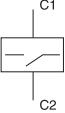
| Article No. |  |  |  |  |  |  |  |
|-------------|---|---|---|--|---|---|---|
| 121981      | BB-UL-18/1P-1M/57   | 57  | -   | -  | -   | -   | -   |
| 121982      | BB-UL-18/2P-2M/56   | -   | 28  | -  | -   | -   | -   |
| 121983      | BB-UL-18/3P-3M/57   | -   | -   | 19   | -   | -   | -   |
| 121984      | BB-UL-18/1P-1,5M/37   | -   | -   | -  | 37  | -   | -   |
| 121987      | BB-UL-18/2P+AS-2,5M/46  | -   | -   | -  | -   | 23  | -   |
| 121988      | BB-UL-18/3P+AS-3,5M/48  | -   | -   | -  | -   | -   | 16  |
| 121989      | BB-UL-25/1P-1M/57   | 57  | -   | -  | -   | -   | -   |
| 121990      | BB-UL-25/2P-2M/56   | -   | 28  | -  | -   | -   | -   |
| 121991      | BB-UL-25/3P-3M/57   | -   | -   | 19   | -   | -   | -   |
| 121992      | BB-UL-25/1P-1,5M/37   | -   | -   | -  | 37  | -   | -   |
| 121995      | BB-UL-25/2P+AS-2,5M/46  | -   | -   | -  | -   | 23  | -   |
| 121996      | BB-UL-25/3P+AS-3,5M/48  | -   | -   | -  | -   | -   | 16  |
| 121997      | BB-UL-TEP/35  | -   | -   | -  | -   | -   | -   |
| in prep.    | BB-UL-TEPA/35   | -   | -   | -  | -   | -   | -   |
| 121998      | BB-UL-TE/50   | -   | -   | -  | -   | -   | -   |
| 121999      | BB-IP/5   | -   | -   | -  | -   | -   | -   |
| 122000      | BB-UL-EC/1  | -   | -   | -  | -   | -   | -   |
| 122001      | BB-UL-EC/3  | -   | -   | -  | -   | -   | -   |



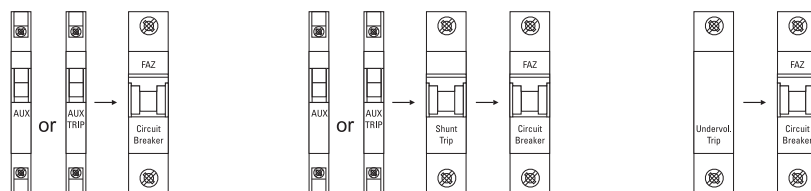


# FAZ | Accessories for FAZ-MCBs

## Auxiliary Contacts and Voltage Trips

| Circuit Diagram   | Description   | Rated Operational Voltage                             | Type Designation                                      | Article No.                | Units per package |
|---|---|---|---|----------------------------|-------------------|
|       | <p><b>Standard Auxiliary Contact</b></p> <ul style="list-style-type: none"> <li>• 1NO/1NC</li> <li>• Installs on left side of FAZ or shunt trip</li> <li>• Max. one per FAZ (1077) device</li> <li>• Switches when FAZ is tripped electrically or manually</li> </ul>   | 230 Vac   | FAZ-XHIN11  | 286054                     | 1                 |
|  <p>Two-pole auxiliary mode</p> <p>Trip indicating mode</p>                           | <p><b>Auxiliary/Trip Indicating Contact</b></p> <ul style="list-style-type: none"> <li>• Small selector screw changes mode</li> <li>• Two Form C (changeover) contacts</li> <li>• Installs on left side of FAZ or shunt trip</li> <li>• Auxiliary contacts switch when FAZ is tripped electrically or manually</li> <li>• Trip indicating contact switches only when FAZ is tripped electrically</li> </ul> | 230 Vac   | FAZ-XAM002  | 262414                     | 1                 |
|    | <p><b>Undervoltage Trip</b></p> <ul style="list-style-type: none"> <li>• Prevents FAZ from operating unless voltage is present</li> <li>• Installs on left side of FAZ</li> <li>• Includes test button</li> </ul>   | 115 Vac<br>230 Vac<br>400 Vac                         | FAZ-XUA(115VAC)<br>FAZ-XUA(230VAC)<br>FAZ-XUA(400VAC) | 212049<br>212051<br>212053 | 1<br>1<br>1       |
|   | <p><b>Shunt Trip</b></p> <ul style="list-style-type: none"> <li>• Allows remote trip of FAZ</li> <li>• Installs on left side of FAZ</li> </ul>  | 12–110 Vac<br>12–60 Vdc<br>110–415 Vac<br>110–230 Vdc | FAZ-XAA-C-12-110VAC<br>FAZ-XAA-C-110-415VAC           | 278518<br>278519           | 1<br>1            |
|   | <p><b>Padlock Hasp (for all FAZ)</b></p> <ul style="list-style-type: none"> <li>• Prevents reactivation of the device during maintenance</li> <li>• Holds one padlock</li> </ul>  |   | IS/SPE-1TE  | 101911                     | 1                 |

## Allowable Combinations of Accessories





## FAZ | Accessories for FAZ-MCBs

### Specifications

#### Technical Data

|   | <b>FAZ-XHIN</b><br><b>FAZ-XAM002</b>         | <b>FAZ-XAA-C</b>                             | <b>FAZ-XUA</b>                               |
|---|--|--|--|
| <b>Electrical</b>   |  |  |  |
| Contact function  | 1A + 1B<br>2 C/O                             | —  | —  |
| Rated operational voltage $U_n$                           | 250 Vac                                      | —  | 115 Vac<br>230 Vac<br>400 Vac                |
| Voltage range   | —  | 12–110 Vac<br>12–60 Vdc                      | —  |
| Voltage range   | —  | 110–415 Vac<br>110–230 Vdc                   | —  |
| Closing threshold [ $\times U_n$ ]                        | —  | —  | 0.8  |
| Tripping threshold [ $\times U_n$ ]                       | —  | —  | 0.5  |
| Rated frequency $f$                                       | 50/60 Hz                                     | 50/60 Hz                                     | 50/60 Hz                                     |
| General use (UL/CSA)                                      |  |  |  |
| AC—230/240 Vac  | 2/2A   | —  | —  |
| DC—110/120 Vdc  | 0.5/0.5A                                     | —  | —  |
| Pilot duty  | A600/Q600                                    | —  | —  |
| Conventional free air thermal current $I_{th}$            | 4A   | —  | —  |
| Rated operational current                                 |  |  |  |
| AC-13 $I_e$   | 3A (250 Vac)                                 | —  | —  |
| AC-15 $I_e$   | 2A (250 Vac)                                 | —  | —  |
| DC-13 $I_e$   | 0.5A (110 Vdc)                               | —  | —  |
| Rated insulation voltage $U_i$                            | 250 Vac                                      | —  | —  |
| Minimum operating voltage per contract $U_{min}$          | 5 Vdc  | —  | —  |
| Rated impulse withstand voltage (1.2/50 $\mu$ ) $U_{imp}$ | 2.5 kV                                       | —  | —  |
| Rated conditional short-circuit current                   |  |  |  |
| with 6A back-up fuse $I_{SC}$                             | 1 kA   | —  | —  |
| Max. admissible back-up fuse                              | 4A gL  | —  | —  |
| <b>Mechanical</b>   |  |  |  |
| Standard front dimension                                  | 45 mm  | 45 mm  | 45 mm  |
| Device height   | 80 mm  | 80 mm  | 80 mm  |
| Mounting width  | 8.8 mm                                       | 17.6 mm                                      | 17.8 mm                                      |
| Degree of protection enclosed                             | IP40   | IP40   | IP40   |
| Terminal protection                                       | Protection against electric shock to IEC 536 | Protection against electric shock to IEC 536 | Protection against electric shock to IEC 536 |
| Terminals   | Lift terminals                               | Twin-purpose terminals                       | Twin-purpose terminals                       |
| Terminal capacity [mm <sup>2</sup> ]                      |  |  |  |
| Solid   | 0.5–2.5                                      | 1–2.5  | 2 x (1–2.5)                                  |
| Flexible  | 0.5–2.5                                      | 1–2.5  | 2 x (1–2.5)                                  |
| Tightening torque of terminal screws                      | 0.8–1.0 Nm (7–9 lb-in)                       | 2.4 Nm (21 lb-in)                            | 0.8 Nm (7 lb-in)                             |



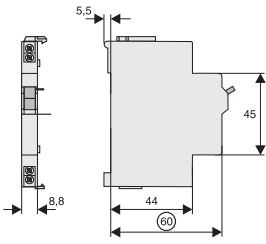


# FAZ | Accessories for FAZ-MCBs

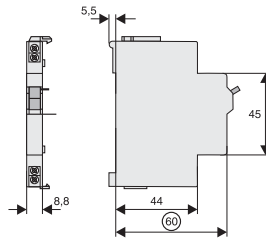
## Dimensions (mm) Accessories

### Auxiliary Contacts

FAZ-XHI11

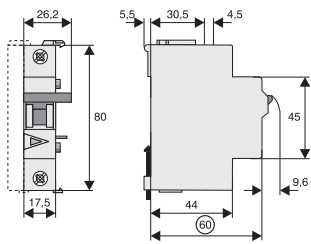


FAZ-XAM002



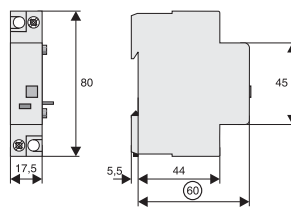
### Shunt Releases

FAZ-XAA



### Undervoltage Releases




FAZ-XUA





# FAZ-T | Characteristic B

## FAZ-T Miniature Circuit Breakers (MCBs) Characteristic B

|   | Rated current<br>$I_n$ (A) | Rated voltage<br>IEC/EN<br>60898-1<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60898-1<br>(kA) | Rated voltage<br>IEC/EN<br>60947-2<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|---|----------------------------|---|---|---|---|---------------------|-------------|-------------------------|
| <b>1-pole</b>   |                            |   |   |   |   |                     |             |                         |
|    |                            |   |   |   |   |                     |             |                         |
| 1   | 240/415                    | 15  | 240   | 25  |   | FAZT-B1/1           | 240770      | 12/120                  |
| 2   | 240/415                    | 15  | 240   | 25  |   | FAZT-B2/1           | 240771      | 12/120                  |
| 3   | 240/415                    | 15  | 240   | 25  |   | FAZT-B3/1           | 240772      | 12/120                  |
| 4   | 240/415                    | 15  | 240   | 25  |   | FAZT-B4/1           | 240777      | 12/120                  |
| 6   | 240/415                    | 15  | 240   | 25  |   | FAZT-B6/1           | 240782      | 12/120                  |
| 10  | 240/415                    | 15  | 240   | 25  |   | FAZT-B10/1          | 240787      | 12/120                  |
| 12  | 240/415                    | 15  | 240   | 25  |   | FAZT-B12/1          | 240792      | 12/120                  |
| 13  | 240/415                    | 15  | 240   | 25  |   | FAZT-B13/1          | 240793      | 12/120                  |
| 15  | 240/415                    | 15  | 240   | 25  |   | FAZT-B15/1          | 240794      | 12/120                  |
| 16  | 240/415                    | 15  | 240   | 25  |   | FAZT-B16/1          | 240795      | 12/120                  |
| 20  | 240/415                    | 15  | 240   | 25  |   | FAZT-B20/1          | 240796      | 12/120                  |
| 25  | 240/415                    | 15  | 240   | 25  |   | FAZT-B25/1          | 240797      | 12/120                  |
| 32  | 240/415                    | 10  | 240   | 20  |   | FAZT-B32/1          | 141907      | 12/120                  |
| 40  | 240/415                    | 10  | 240   | 20  |   | FAZT-B40/1          | 141908      | 12/120                  |
| <b>1+N-pole</b>   |                            |   |   |   |   |                     |             |                         |
|  |                            |   |   |   |   |                     |             |                         |
| 1   | 240                        | 15  | 240   | 25  |   | FAZT-B1/1N          | 240994      | 1/60                    |
| 2   | 240                        | 15  | 240   | 25  |   | FAZT-B2/1N          | 240995      | 1/60                    |
| 3   | 240                        | 15  | 240   | 25  |   | FAZT-B3/1N          | 240996      | 1/60                    |
| 4   | 240                        | 15  | 240   | 25  |   | FAZT-B4/1N          | 240997      | 1/60                    |
| 6   | 240                        | 15  | 240   | 25  |   | FAZT-B6/1N          | 240998      | 1/60                    |
| 10  | 240                        | 15  | 240   | 25  |   | FAZT-B10/1N         | 240999      | 1/60                    |
| 12  | 240                        | 15  | 240   | 25  |   | FAZT-B12/1N         | 241000      | 1/60                    |
| 13  | 240                        | 15  | 240   | 25  |   | FAZT-B13/1N         | 241001      | 1/60                    |
| 15  | 240                        | 15  | 240   | 25  |   | FAZT-B15/1N         | 241005      | 1/60                    |
| 16  | 240                        | 15  | 240   | 25  |   | FAZT-B16/1N         | 241009      | 1/60                    |
| 20  | 240                        | 15  | 240   | 25  |   | FAZT-B20/1N         | 241015      | 1/60                    |
| 25  | 240                        | 15  | 240   | 25  |   | FAZT-B25/1N         | 241019      | 1/60                    |
| 32  | 240                        | 10  | 240   | 20  |   | FAZT-B32/1N         | 142509      | 1/60                    |
| 40  | 240                        | 10  | 240   | 20  |   | FAZT-B40/1N         | 142510      | 1/60                    |
| <b>2-pole</b>   |                            |   |   |   |   |                     |             |                         |
|  |                            |   |   |   |   |                     |             |                         |
| 1   | 415                        | 15  | 240/415   | 25  |   | FAZT-B1/2           | 240820      | 1/60                    |
| 2   | 415                        | 15  | 240/415   | 25  |   | FAZT-B2/2           | 240821      | 1/60                    |
| 3   | 415                        | 15  | 240/415   | 25  |   | FAZT-B3/2           | 240822      | 1/60                    |
| 4   | 415                        | 15  | 240/415   | 25  |   | FAZT-B4/2           | 240823      | 1/60                    |
| 6   | 415                        | 15  | 240/415   | 25  |   | FAZT-B6/2           | 240824      | 1/60                    |
| 10  | 415                        | 15  | 240/415   | 25  |   | FAZT-B10/2          | 240825      | 1/60                    |
| 12  | 415                        | 15  | 240/415   | 25  |   | FAZT-B12/2          | 240826      | 1/60                    |
| 13  | 415                        | 15  | 240/415   | 25  |   | FAZT-B13/2          | 240827      | 1/60                    |
| 15  | 415                        | 15  | 240/415   | 25  |   | FAZT-B15/2          | 240828      | 1/60                    |
| 16  | 415                        | 15  | 240/415   | 25  |   | FAZT-B16/2          | 240829      | 1/60                    |
| 20  | 415                        | 15  | 240/415   | 25  |   | FAZT-B20/2          | 240830      | 1/60                    |
| 25  | 415                        | 15  | 240/415   | 25  |   | FAZT-B25/2          | 240831      | 1/60                    |
| 32  | 415                        | 10  | 240/415   | 20  |   | FAZT-B32/2          | 142485      | 1/60                    |
| 40  | 415                        | 10  | 240/415   | 20  |   | FAZT-B40/2          | 142486      | 1/60                    |







# FAZ-T | Characteristic B

| Rated current<br>$I_n$ (A) | Rated voltage<br>IEC/EN<br>60898-1<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60898-1<br>(kA) | Rated voltage<br>IEC/EN<br>60947-2<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|---|---|---|---|---------------------|-------------|-------------------------|
|----------------------------|---|---|---|---|---------------------|-------------|-------------------------|

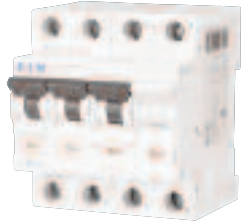
SG13011



## 3-pole

|    |     |    |         |    |            |        |      |
|----|-----|----|---------|----|------------|--------|------|
| 1  | 415 | 15 | 240/415 | 25 | FAZT-B1/3  | 240874 | 1/40 |
| 2  | 415 | 15 | 240/415 | 25 | FAZT-B2/3  | 240875 | 1/40 |
| 3  | 415 | 15 | 240/415 | 25 | FAZT-B3/3  | 240876 | 1/40 |
| 4  | 415 | 15 | 240/415 | 25 | FAZT-B4/3  | 240877 | 1/40 |
| 6  | 415 | 15 | 240/415 | 25 | FAZT-B6/3  | 240878 | 1/40 |
| 10 | 415 | 15 | 240/415 | 25 | FAZT-B10/3 | 240879 | 1/40 |
| 12 | 415 | 15 | 240/415 | 25 | FAZT-B12/3 | 240880 | 1/40 |
| 13 | 415 | 15 | 240/415 | 25 | FAZT-B13/3 | 240881 | 1/40 |
| 15 | 415 | 15 | 240/415 | 25 | FAZT-B15/3 | 240882 | 1/40 |
| 16 | 415 | 15 | 240/415 | 25 | FAZT-B16/3 | 240883 | 1/40 |
| 20 | 415 | 15 | 240/415 | 25 | FAZT-B20/3 | 240884 | 1/40 |
| 25 | 415 | 15 | 240/415 | 25 | FAZT-B25/3 | 240885 | 1/40 |
| 32 | 415 | 10 | 240/415 | 20 | FAZT-B32/3 | 142493 | 1/40 |
| 40 | 415 | 10 | 240/415 | 20 | FAZT-B40/3 | 142494 | 1/40 |

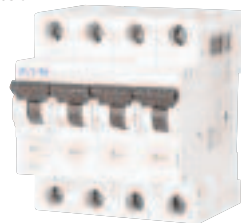
SG13211



## 3+N-pole

|    |     |    |         |    |             |        |      |
|----|-----|----|---------|----|-------------|--------|------|
| 1  | 415 | 15 | 240/415 | 25 | FAZT-B1/3N  | 241060 | 1/30 |
| 2  | 415 | 15 | 240/415 | 25 | FAZT-B2/3N  | 241065 | 1/30 |
| 3  | 415 | 15 | 240/415 | 25 | FAZT-B3/3N  | 241070 | 1/30 |
| 4  | 415 | 15 | 240/415 | 25 | FAZT-B4/3N  | 241075 | 1/30 |
| 6  | 415 | 15 | 240/415 | 25 | FAZT-B6/3N  | 241080 | 1/30 |
| 10 | 415 | 15 | 240/415 | 25 | FAZT-B10/3N | 241085 | 1/30 |
| 12 | 415 | 15 | 240/415 | 25 | FAZT-B12/3N | 241090 | 1/30 |
| 13 | 415 | 15 | 240/415 | 25 | FAZT-B13/3N | 241095 | 1/30 |
| 15 | 415 | 15 | 240/415 | 25 | FAZT-B15/3N | 241100 | 1/30 |
| 16 | 415 | 15 | 240/415 | 25 | FAZT-B16/3N | 241105 | 1/30 |
| 20 | 415 | 15 | 240/415 | 25 | FAZT-B20/3N | 241110 | 1/30 |
| 25 | 415 | 15 | 240/415 | 25 | FAZT-B25/3N | 241115 | 1/30 |
| 32 | 415 | 10 | 240/415 | 20 | FAZT-B32/3N | 142517 | 1/30 |
| 40 | 415 | 10 | 240/415 | 20 | FAZT-B40/3N | 142518 | 1/30 |

SG13111



## 4-pole




|    |     |    |         |    |            |        |      |
|----|-----|----|---------|----|------------|--------|------|
| 1  | 415 | 15 | 240/415 | 25 | FAZT-B1/4  | 240922 | 1/30 |
| 2  | 415 | 15 | 240/415 | 25 | FAZT-B2/4  | 240927 | 1/30 |
| 3  | 415 | 15 | 240/415 | 25 | FAZT-B3/4  | 240930 | 1/30 |
| 4  | 415 | 15 | 240/415 | 25 | FAZT-B4/4  | 240931 | 1/30 |
| 6  | 415 | 15 | 240/415 | 25 | FAZT-B6/4  | 240932 | 1/30 |
| 10 | 415 | 15 | 240/415 | 25 | FAZT-B10/4 | 240933 | 1/30 |
| 12 | 415 | 15 | 240/415 | 25 | FAZT-B12/4 | 240934 | 1/30 |
| 13 | 415 | 15 | 240/415 | 25 | FAZT-B13/4 | 240935 | 1/30 |
| 15 | 415 | 15 | 240/415 | 25 | FAZT-B15/4 | 240936 | 1/30 |
| 16 | 415 | 15 | 240/415 | 25 | FAZT-B16/4 | 240937 | 1/30 |
| 20 | 415 | 15 | 240/415 | 25 | FAZT-B20/4 | 240938 | 1/30 |
| 25 | 415 | 15 | 240/415 | 25 | FAZT-B25/4 | 240939 | 1/30 |
| 32 | 415 | 10 | 240/415 | 20 | FAZT-B32/4 | 142501 | 1/30 |
| 40 | 415 | 10 | 240/415 | 20 | FAZT-B40/4 | 142502 | 1/30 |





# FAZ-T | Characteristic C

## FAZ-T Miniature Circuit Breakers (MCBs) Characteristic C

|   | Rated current<br>$I_n$ (A) | Rated voltage<br>IEC/EN<br>60898-1<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60898-1<br>(kA) | Rated voltage<br>IEC/EN<br>60947-2<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|---|----------------------------|---|---|---|---|---------------------|-------------|-------------------------|
| <b>1-pole</b>   |                            |   |   |   |   |                     |             |                         |
| SG12411   |                            |   |   |   |   |                     |             |                         |
|    |                            |   |   |   |   |                     |             |                         |
| 1   | 240/415                    | 15  | 240   | 25  |   | FAZT-C1/1           | 240798      | 12/120                  |
| 2   | 240/415                    | 15  | 240   | 25  |   | FAZT-C2/1           | 240799      | 12/120                  |
| 3   | 240/415                    | 15  | 240   | 25  |   | FAZT-C3/1           | 240800      | 12/120                  |
| 4   | 240/415                    | 15  | 240   | 25  |   | FAZT-C4/1           | 240801      | 12/120                  |
| 6   | 240/415                    | 15  | 240   | 25  |   | FAZT-C6/1           | 240802      | 12/120                  |
| 10  | 240/415                    | 15  | 240   | 25  |   | FAZT-C10/1          | 240803      | 12/120                  |
| 12  | 240/415                    | 15  | 240   | 25  |   | FAZT-C12/1          | 240804      | 12/120                  |
| 13  | 240/415                    | 15  | 240   | 25  |   | FAZT-C13/1          | 240805      | 12/120                  |
| 15  | 240/415                    | 15  | 240   | 25  |   | FAZT-C15/1          | 240806      | 12/120                  |
| 16  | 240/415                    | 15  | 240   | 25  |   | FAZT-C16/1          | 240807      | 12/120                  |
| 20  | 240/415                    | 15  | 240   | 25  |   | FAZT-C20/1          | 240808      | 12/120                  |
| 25  | 240/415                    | 15  | 240   | 25  |   | FAZT-C25/1          | 240809      | 12/120                  |
| 32  | 240/415                    | 10  | 240   | 20  |   | FAZT-C32/1          | 141909      | 12/120                  |
| 40  | 240/415                    | 10  | 240   | 20  |   | FAZT-C40/1          | 142480      | 12/120                  |
| <b>1+N-pole</b>   |                            |   |   |   |   |                     |             |                         |
| SG12711   |                            |   |   |   |   |                     |             |                         |
|  |                            |   |   |   |   |                     |             |                         |
| 1   | 240                        | 15  | 240   | 25  |   | FAZT-C1/1N          | 241022      | 1/60                    |
| 2   | 240                        | 15  | 240   | 25  |   | FAZT-C2/1N          | 241023      | 1/60                    |
| 3   | 240                        | 15  | 240   | 25  |   | FAZT-C3/1N          | 241024      | 1/60                    |
| 4   | 240                        | 15  | 240   | 25  |   | FAZT-C4/1N          | 241025      | 1/60                    |
| 6   | 240                        | 15  | 240   | 25  |   | FAZT-C6/1N          | 241026      | 1/60                    |
| 10  | 240                        | 15  | 240   | 25  |   | FAZT-C10/1N         | 241027      | 1/60                    |
| 12  | 240                        | 15  | 240   | 25  |   | FAZT-C12/1N         | 241028      | 1/60                    |
| 13  | 240                        | 15  | 240   | 25  |   | FAZT-C13/1N         | 241029      | 1/60                    |
| 15  | 240                        | 15  | 240   | 25  |   | FAZT-C15/1N         | 241030      | 1/60                    |
| 16  | 240                        | 15  | 240   | 25  |   | FAZT-C16/1N         | 241034      | 1/60                    |
| 20  | 240                        | 15  | 240   | 25  |   | FAZT-C20/1N         | 241038      | 1/60                    |
| 25  | 240                        | 15  | 240   | 25  |   | FAZT-C25/1N         | 241044      | 1/60                    |
| 32  | 240                        | 10  | 240   | 20  |   | FAZT-C32/1N         | 142511      | 1/60                    |
| 40  | 240                        | 10  | 240   | 20  |   | FAZT-C40/1N         | 142512      | 1/60                    |
| <b>2-pole</b>   |                            |   |   |   |   |                     |             |                         |
| SG12811   |                            |   |   |   |   |                     |             |                         |
|  |                            |   |   |   |   |                     |             |                         |
| 1   | 415                        | 15  | 240/415   | 25  |   | FAZT-C1/2           | 240832      | 1/60                    |
| 2   | 415                        | 15  | 240/415   | 25  |   | FAZT-C2/2           | 240833      | 1/60                    |
| 3   | 415                        | 15  | 240/415   | 25  |   | FAZT-C3/2           | 240838      | 1/60                    |
| 4   | 415                        | 15  | 240/415   | 25  |   | FAZT-C4/2           | 240843      | 1/60                    |
| 6   | 415                        | 15  | 240/415   | 25  |   | FAZT-C6/2           | 240850      | 1/60                    |
| 10  | 415                        | 15  | 240/415   | 25  |   | FAZT-C10/2          | 240855      | 1/60                    |
| 12  | 415                        | 15  | 240/415   | 25  |   | FAZT-C12/2          | 240858      | 1/60                    |
| 13  | 415                        | 15  | 240/415   | 25  |   | FAZT-C13/2          | 240859      | 1/60                    |
| 15  | 415                        | 15  | 240/415   | 25  |   | FAZT-C15/2          | 240860      | 1/60                    |
| 16  | 415                        | 15  | 240/415   | 25  |   | FAZT-C16/2          | 240861      | 1/60                    |
| 20  | 415                        | 15  | 240/415   | 25  |   | FAZT-C20/2          | 240862      | 1/60                    |
| 25  | 415                        | 15  | 240/415   | 25  |   | FAZT-C25/2          | 240863      | 1/60                    |
| 32  | 415                        | 10  | 240/415   | 20  |   | FAZT-C32/2          | 142487      | 1/60                    |
| 40  | 415                        | 10  | 240/415   | 20  |   | FAZT-C40/2          | 142488      | 1/60                    |





# FAZ-T | Characteristic C

| Rated current<br>$I_n$ (A) | Rated voltage<br>IEC/EN<br>60898-1<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60898-1<br>(kA) | Rated voltage<br>IEC/EN<br>60947-2<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|---|---|---|---|---------------------|-------------|-------------------------|
|----------------------------|---|---|---|---|---------------------|-------------|-------------------------|

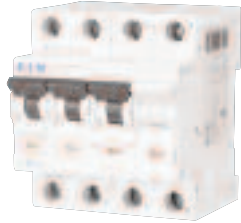
SG13011



### 3-pole

|    |     |    |         |    |            |        |      |
|----|-----|----|---------|----|------------|--------|------|
| 1  | 415 | 15 | 240/415 | 25 | FAZT-C1/3  | 240886 | 1/40 |
| 2  | 415 | 15 | 240/415 | 25 | FAZT-C2/3  | 240887 | 1/40 |
| 3  | 415 | 15 | 240/415 | 25 | FAZT-C3/3  | 240888 | 1/40 |
| 4  | 415 | 15 | 240/415 | 25 | FAZT-C4/3  | 240889 | 1/40 |
| 6  | 415 | 15 | 240/415 | 25 | FAZT-C6/3  | 240890 | 1/40 |
| 10 | 415 | 15 | 240/415 | 25 | FAZT-C10/3 | 240891 | 1/40 |
| 12 | 415 | 15 | 240/415 | 25 | FAZT-C12/3 | 240892 | 1/40 |
| 13 | 415 | 15 | 240/415 | 25 | FAZT-C13/3 | 240893 | 1/40 |
| 15 | 415 | 15 | 240/415 | 25 | FAZT-C15/3 | 240894 | 1/40 |
| 16 | 415 | 15 | 240/415 | 25 | FAZT-C16/3 | 240895 | 1/40 |
| 20 | 415 | 15 | 240/415 | 25 | FAZT-C20/3 | 240896 | 1/40 |
| 25 | 415 | 15 | 240/415 | 25 | FAZT-C25/3 | 240897 | 1/40 |
| 32 | 415 | 10 | 240/415 | 20 | FAZT-C32/3 | 142495 | 1/40 |
| 40 | 415 | 10 | 240/415 | 20 | FAZT-C40/3 | 142496 | 1/40 |

SG13211



### 3+N-pole

|    |     |    |         |    |             |        |      |
|----|-----|----|---------|----|-------------|--------|------|
| 1  | 415 | 15 | 240/415 | 25 | FAZT-C1/3N  | 241120 | 1/30 |
| 2  | 415 | 15 | 240/415 | 25 | FAZT-C2/3N  | 241125 | 1/30 |
| 3  | 415 | 15 | 240/415 | 25 | FAZT-C3/3N  | 241130 | 1/30 |
| 4  | 415 | 15 | 240/415 | 25 | FAZT-C4/3N  | 241135 | 1/30 |
| 6  | 415 | 15 | 240/415 | 25 | FAZT-C6/3N  | 241140 | 1/30 |
| 10 | 415 | 15 | 240/415 | 25 | FAZT-C10/3N | 241145 | 1/30 |
| 12 | 415 | 15 | 240/415 | 25 | FAZT-C12/3N | 241150 | 1/30 |
| 13 | 415 | 15 | 240/415 | 25 | FAZT-C13/3N | 241155 | 1/30 |
| 15 | 415 | 15 | 240/415 | 25 | FAZT-C15/3N | 241160 | 1/30 |
| 16 | 415 | 15 | 240/415 | 25 | FAZT-C16/3N | 241165 | 1/30 |
| 20 | 415 | 15 | 240/415 | 25 | FAZT-C20/3N | 241170 | 1/30 |
| 25 | 415 | 15 | 240/415 | 25 | FAZT-C25/3N | 241175 | 1/30 |
| 32 | 415 | 10 | 240/415 | 20 | FAZT-C32/3N | 142519 | 1/30 |
| 40 | 415 | 10 | 240/415 | 20 | FAZT-C40/3N | 142520 | 1/30 |

SG13111



### 4-pole




|    |     |    |         |    |            |        |      |
|----|-----|----|---------|----|------------|--------|------|
| 1  | 415 | 15 | 240/415 | 25 | FAZT-C1/4  | 240940 | 1/30 |
| 2  | 415 | 15 | 240/415 | 25 | FAZT-C2/4  | 240941 | 1/30 |
| 3  | 415 | 15 | 240/415 | 25 | FAZT-C3/4  | 240945 | 1/30 |
| 4  | 415 | 15 | 240/415 | 25 | FAZT-C4/4  | 240949 | 1/30 |
| 6  | 415 | 15 | 240/415 | 25 | FAZT-C6/4  | 240955 | 1/30 |
| 10 | 415 | 15 | 240/415 | 25 | FAZT-C10/4 | 240959 | 1/30 |
| 12 | 415 | 15 | 240/415 | 25 | FAZT-C12/4 | 240962 | 1/30 |
| 13 | 415 | 15 | 240/415 | 25 | FAZT-C13/4 | 240963 | 1/30 |
| 15 | 415 | 15 | 240/415 | 25 | FAZT-C15/4 | 240964 | 1/30 |
| 16 | 415 | 15 | 240/415 | 25 | FAZT-C16/4 | 240965 | 1/30 |
| 20 | 415 | 15 | 240/415 | 25 | FAZT-C20/4 | 240966 | 1/30 |
| 25 | 415 | 15 | 240/415 | 25 | FAZT-C25/4 | 240967 | 1/30 |
| 32 | 415 | 10 | 240/415 | 20 | FAZT-C32/4 | 142503 | 1/30 |
| 40 | 415 | 10 | 240/415 | 20 | FAZT-C40/4 | 142504 | 1/30 |





# FAZ-T | Characteristic D

## FAZ-T Miniature Circuit Breakers (MCBs) Characteristic D

|   | Rated current<br>$I_n$ (A) | Rated voltage<br>IEC/EN<br>60898-1<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60898-1<br>(kA) | Rated voltage<br>IEC/EN<br>60947-2<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|---|----------------------------|---|---|---|---|---------------------|-------------|-------------------------|
| <b>1-pole</b>   |                            |   |   |   |   |                     |             |                         |
|    |                            |   |   |   |   |                     |             |                         |
| 1   | 240/415                    | 15  | 240   | 25  |   | FAZT-D1/1           | 240810      | 12/120                  |
| 2   | 240/415                    | 15  | 240   | 25  |   | FAZT-D2/1           | 240811      | 12/120                  |
| 3   | 240/415                    | 15  | 240   | 25  |   | FAZT-D3/1           | 240812      | 12/120                  |
| 4   | 240/415                    | 15  | 240   | 25  |   | FAZT-D4/1           | 240813      | 12/120                  |
| 6   | 240/415                    | 15  | 240   | 25  |   | FAZT-D6/1           | 240814      | 12/120                  |
| 10  | 240/415                    | 15  | 240   | 25  |   | FAZT-D10/1          | 240815      | 12/120                  |
| 12  | 240/415                    | 15  | 240   | 25  |   | FAZT-D12/1          | 240816      | 12/120                  |
| 13  | 240/415                    | 15  | 240   | 25  |   | FAZT-D13/1          | 240817      | 12/120                  |
| 15  | 240/415                    | 15  | 240   | 20  |   | FAZT-D15/1          | 240818      | 12/120                  |
| 16  | 240/415                    | 15  | 240   | 20  |   | FAZT-D16/1          | 240819      | 12/120                  |
| 20  | 240/415                    | 10  | 240   | 20  |   | FAZT-D20/1          | 142481      | 12/120                  |
| 25  | 240/415                    | 10  | 240   | 15  |   | FAZT-D25/1          | 142482      | 12/120                  |
| 32  | 240/415                    | 10  | 240   | 15  |   | FAZT-D32/1          | 142483      | 12/120                  |
| 40  | 240/415                    | 10  | 240   | 15  |   | FAZT-D40/1          | 142484      | 12/120                  |
| <b>1+N-pole</b>   |                            |   |   |   |   |                     |             |                         |
|  |                            |   |   |   |   |                     |             |                         |
| 1   | 240                        | 15  | 240   | 25  |   | FAZT-D1/1N          | 241048      | 1/60                    |
| 2   | 240                        | 15  | 240   | 25  |   | FAZT-D2/1N          | 241051      | 1/60                    |
| 3   | 240                        | 15  | 240   | 25  |   | FAZT-D3/1N          | 241052      | 1/60                    |
| 4   | 240                        | 15  | 240   | 25  |   | FAZT-D4/1N          | 241053      | 1/60                    |
| 6   | 240                        | 15  | 240   | 25  |   | FAZT-D6/1N          | 241054      | 1/60                    |
| 10  | 240                        | 15  | 240   | 25  |   | FAZT-D10/1N         | 241055      | 1/60                    |
| 12  | 240                        | 15  | 240   | 25  |   | FAZT-D12/1N         | 241056      | 1/60                    |
| 13  | 240                        | 15  | 240   | 25  |   | FAZT-D13/1N         | 241057      | 1/60                    |
| 15  | 240                        | 15  | 240   | 20  |   | FAZT-D15/1N         | 241058      | 1/60                    |
| 16  | 240                        | 15  | 240   | 20  |   | FAZT-D16/1N         | 241059      | 1/60                    |
| 20  | 240                        | 10  | 240   | 20  |   | FAZT-D20/1N         | 142513      | 1/60                    |
| 25  | 240                        | 10  | 240   | 15  |   | FAZT-D25/1N         | 142514      | 1/60                    |
| 32  | 240                        | 10  | 240   | 15  |   | FAZT-D32/1N         | 142515      | 1/60                    |
| 40  | 240                        | 10  | 240   | 15  |   | FAZT-D40/1N         | 142516      | 1/60                    |
| <b>2-pole</b>   |                            |   |   |   |   |                     |             |                         |
|  |                            |   |   |   |   |                     |             |                         |
| 1   | 415                        | 15  | 240/415   | 25  |   | FAZT-D1/2           | 240864      | 1/60                    |
| 2   | 415                        | 15  | 240/415   | 25  |   | FAZT-D2/2           | 240865      | 1/60                    |
| 3   | 415                        | 15  | 240/415   | 25  |   | FAZT-D3/2           | 240866      | 1/60                    |
| 4   | 415                        | 15  | 240/415   | 25  |   | FAZT-D4/2           | 240867      | 1/60                    |
| 6   | 415                        | 15  | 240/415   | 25  |   | FAZT-D6/2           | 240868      | 1/60                    |
| 10  | 415                        | 15  | 240/415   | 25  |   | FAZT-D10/2          | 240869      | 1/60                    |
| 12  | 415                        | 15  | 240/415   | 25  |   | FAZT-D12/2          | 240870      | 1/60                    |
| 13  | 415                        | 15  | 240/415   | 25  |   | FAZT-D13/2          | 240871      | 1/60                    |
| 15  | 415                        | 15  | 240/415   | 20  |   | FAZT-D15/2          | 240872      | 1/60                    |
| 16  | 415                        | 15  | 240/415   | 20  |   | FAZT-D16/2          | 240873      | 1/60                    |
| 20  | 415                        | 10  | 240/415   | 20  |   | FAZT-D20/2          | 142489      | 1/60                    |
| 25  | 415                        | 10  | 240/415   | 15  |   | FAZT-D25/2          | 142490      | 1/60                    |
| 32  | 415                        | 10  | 240/415   | 15  |   | FAZT-D32/2          | 142491      | 1/60                    |
| 40  | 415                        | 10  | 240/415   | 15  |   | FAZT-D40/2          | 142492      | 1/60                    |





# FAZ-T | Characteristic D

| Rated current<br>$I_n$ (A) | Rated voltage<br>IEC/EN<br>60898-1<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60898-1<br>(kA) | Rated voltage<br>IEC/EN<br>60947-2<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|----------------------------|---|---|---|---|---------------------|-------------|-------------------------|
|----------------------------|---|---|---|---|---------------------|-------------|-------------------------|

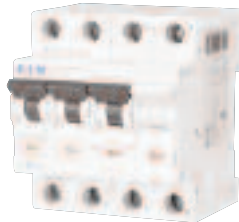
SG13011



### 3-pole

|    |     |    |         |    |            |        |      |
|----|-----|----|---------|----|------------|--------|------|
| 1  | 415 | 15 | 240/415 | 25 | FAZT-D1/3  | 240898 | 1/40 |
| 2  | 415 | 15 | 240/415 | 25 | FAZT-D2/3  | 240899 | 1/40 |
| 3  | 415 | 15 | 240/415 | 25 | FAZT-D3/3  | 240900 | 1/40 |
| 4  | 415 | 15 | 240/415 | 25 | FAZT-D4/3  | 240901 | 1/40 |
| 6  | 415 | 15 | 240/415 | 25 | FAZT-D6/3  | 240902 | 1/40 |
| 10 | 415 | 15 | 240/415 | 25 | FAZT-D10/3 | 240903 | 1/40 |
| 12 | 415 | 15 | 240/415 | 25 | FAZT-D12/3 | 240904 | 1/40 |
| 13 | 415 | 15 | 240/415 | 25 | FAZT-D13/3 | 240905 | 1/40 |
| 15 | 415 | 15 | 240/415 | 25 | FAZT-D15/3 | 240910 | 1/40 |
| 16 | 415 | 15 | 240/415 | 25 | FAZT-D16/3 | 240915 | 1/40 |
| 20 | 415 | 10 | 240/415 | 20 | FAZT-D20/3 | 142497 | 1/40 |
| 25 | 415 | 10 | 240/415 | 15 | FAZT-D25/3 | 142498 | 1/40 |
| 32 | 415 | 10 | 240/415 | 15 | FAZT-D32/3 | 142499 | 1/40 |
| 40 | 415 | 10 | 240/415 | 15 | FAZT-D40/3 | 142500 | 1/40 |

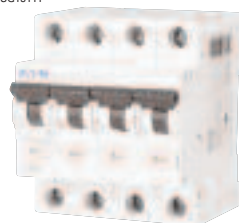
SG13211



### 3+N-pole

|    |     |    |         |    |             |        |      |
|----|-----|----|---------|----|-------------|--------|------|
| 1  | 415 | 15 | 240/415 | 25 | FAZT-D1/3N  | 241180 | 1/30 |
| 2  | 415 | 15 | 240/415 | 25 | FAZT-D2/3N  | 241181 | 1/30 |
| 3  | 415 | 15 | 240/415 | 25 | FAZT-D3/3N  | 241182 | 1/30 |
| 4  | 415 | 15 | 240/415 | 25 | FAZT-D4/3N  | 241183 | 1/30 |
| 6  | 415 | 15 | 240/415 | 25 | FAZT-D6/3N  | 241184 | 1/30 |
| 10 | 415 | 15 | 240/415 | 25 | FAZT-D10/3N | 241185 | 1/30 |
| 12 | 415 | 15 | 240/415 | 25 | FAZT-D12/3N | 241186 | 1/30 |
| 13 | 415 | 15 | 240/415 | 25 | FAZT-D13/3N | 241187 | 1/30 |
| 15 | 415 | 15 | 240/415 | 25 | FAZT-D15/3N | 241188 | 1/30 |
| 16 | 415 | 15 | 240/415 | 25 | FAZT-D16/3N | 241189 | 1/30 |
| 20 | 415 | 10 | 240/415 | 20 | FAZT-D20/3N | 142521 | 1/30 |
| 25 | 415 | 10 | 240/415 | 15 | FAZT-D25/3N | 142522 | 1/30 |
| 32 | 415 | 10 | 240/415 | 15 | FAZT-D32/3N | 142523 | 1/30 |
| 40 | 415 | 10 | 240/415 | 15 | FAZT-D40/3N | 142524 | 1/30 |

SG13111



### 4-pole

|    |     |    |         |    |            |        |      |
|----|-----|----|---------|----|------------|--------|------|
| 1  | 415 | 15 | 240/415 | 25 | FAZT-D1/4  | 240968 | 1/30 |
| 2  | 415 | 15 | 240/415 | 25 | FAZT-D2/4  | 240969 | 1/30 |
| 3  | 415 | 15 | 240/415 | 25 | FAZT-D3/4  | 240970 | 1/30 |
| 4  | 415 | 15 | 240/415 | 25 | FAZT-D4/4  | 240971 | 1/30 |
| 6  | 415 | 15 | 240/415 | 25 | FAZT-D6/4  | 240975 | 1/30 |
| 10 | 415 | 15 | 240/415 | 25 | FAZT-D10/4 | 240979 | 1/30 |
| 12 | 415 | 15 | 240/415 | 25 | FAZT-D12/4 | 240985 | 1/30 |
| 13 | 415 | 15 | 240/415 | 25 | FAZT-D13/4 | 240989 | 1/30 |
| 15 | 415 | 15 | 240/415 | 25 | FAZT-D15/4 | 240992 | 1/30 |
| 16 | 415 | 15 | 240/415 | 25 | FAZT-D16/4 | 240993 | 1/30 |
| 20 | 415 | 10 | 240/415 | 20 | FAZT-D20/4 | 142505 | 1/30 |
| 25 | 415 | 10 | 240/415 | 15 | FAZT-D25/4 | 142506 | 1/30 |
| 32 | 415 | 10 | 240/415 | 15 | FAZT-D32/4 | 142507 | 1/30 |
| 40 | 415 | 10 | 240/415 | 15 | FAZT-D40/4 | 142508 | 1/30 |





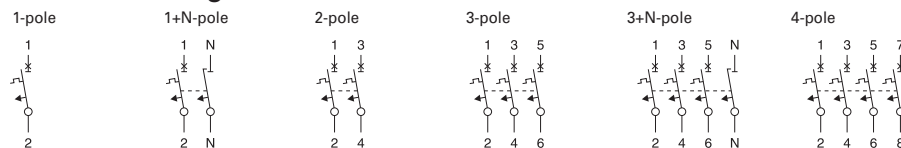
# FAZ-T | Specifications

## Specifications

### Technical data

|   |           | <b>FAZ-T</b>   |
|---|-----------|--|
| Productstandard   |           | IEC/EN 60947-2<br>IEC/EN 60898-1   |
| Number of poles   |           | 1, 1p+N, 2, 3, 3p+N, 4   |
| <b>Mechanical specifications</b>  |           |  |
| Device width  |           | 17.7 mm (1p), 27 mm (1p+N), 36 mm (2p), 54 mm (3p), 72mm (3p+N),<br>72 mm (4p)   |
| Frame size  |           | 45 mm  |
| Socket size   |           | 80 mm  |
| Device depth  |           | 60 mm  |
| Terminals   |           | lift terminal  |
| Terminal capacity rigid solid/stranded wire                             |           | 1-25 mm <sup>2</sup>   |
| Terminal screw  |           | M5 (with slotted screw acc. to EN ISO 4757-Z2, PZ2)  |
| Terminal torque   |           | max. 2.4 Nm  |
| Snap on fixing  |           | tristable (on DIN rail acc. to EN 50022)   |
| Finger proof  |           | acc.to VBG4, ÖVE EN-6  |
| Degree of Protection (DIN VDE 0470)                                     |           |  |
| Surface mounted   |           | IP 20  |
| Built-in behind panel   |           | IP 40  |
| Contact position indicator  |           | red / green  |
| <b>Electrical specifications</b>  |           |  |
| Rated voltage   | $U_n$     | 240/415 V  |
| Rated current   | $I_n$     | Type B, C, D: 1, 2, 3, 4, 6, 10, 12, 13, 15, 16, 20, 25, 32, 40 A  |
| Rated insulation voltage  | $U_i$     | 440 V  |
| Rated impulse withstand voltage   | $U_{imp}$ | 4 kV (1.2/50)µsec  |
| <b>Tripping characteristic</b>  |           |  |
| Conventional non-tripping current                                       | $I_{nt}$  | $I_{nt}=1.13 I_n$  |
| Conventional tripping current   | $I_t$     | $I_t=1.45 I_n$   |
| Reference temperature   |           | 30 °C  |
| Temperature factor  |           | 0.4% /K  |
| Instantaneous tripping current  | $I_{mt}$  | type B: $3 I_n < I_{mt} = 5 I_n \cdot t (I_{mt}) < 0,1 \text{ sec}$<br>type C: $5 I_n < I_{mt} = 10 I_n \cdot t (I_{mt}) < 0,1 \text{ sec}$<br>type D: $10 I_n < I_{mt} = 20 I_n \cdot t (I_{mt}) < 0,1 \text{ sec}$ |
| Rated ultimate short-circuit braking capacity $I_{cu}$ (IEC/EN 60947-2) |           | type B 1-25 A: 25 kA, 32-40 A: 20 kA<br>type C 1-25 A: 25 kA, 32-40 A: 20 kA<br>type D 1p/1p+N/2p - 1-13 A: 25 kA, 15-20 A: 20 kA, 25-40 A: 15 kA<br>3p/3p+N/4p - 1-16 A: 25 kA, 20 A: 20 kA, 25-40 A: 15 kA         |
| Rated service short-circuit braking capacity $I_{cs}$ (IEC/EN 60947-2)  |           | for $I_{cu} = 25 \text{ kA} \rightarrow I_{cs} = 12.5 \text{ kA}$<br>for $I_{cu} = 20 \text{ kA} \rightarrow I_{cs} = 10 \text{ kA}$<br>for $I_{cu} = 15 \text{ kA} \rightarrow I_{cs} = 7.5 \text{ kA}$             |
| Rated short-circuit braking capacity $I_{cn}$ (IEC/EN 60898-1)          |           | type B 1-25 A: 15 kA, 32-40 A: 10 kA<br>type C 1-25 A: 15 kA, 32-40 A: 10 kA<br>type D 1-16 A: 15 kA, 20-40 A: 10 kA   |
| Selectivity class   |           | 3 (acc. to EN 60898)   |
| Number of electrical operations   |           | > 4000 (IEC/EN 60898)  |
| Number of mechanical operations   |           | > 10000 (IEC/EN 60947)   |
| Climatic conditions   |           | acc. to IEC 68-2 (25..55°C / 90..95% RH)   |

### Connection diagrams

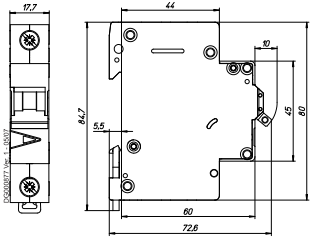
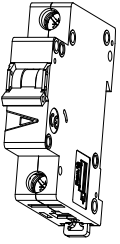




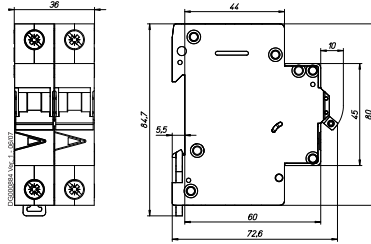
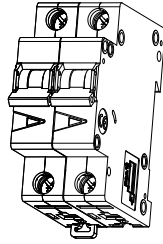
# FAZ-T | Specifications

## Dimensions (mm) FAZ-T

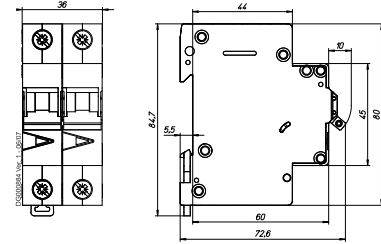
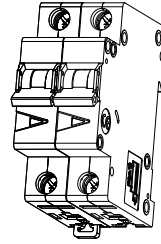
1-pole



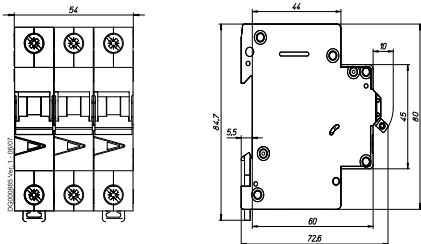
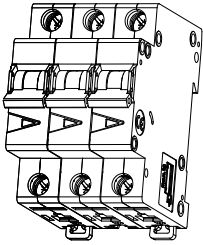
1+N-pole



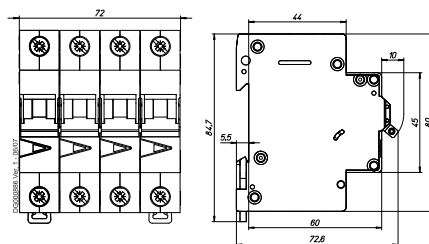
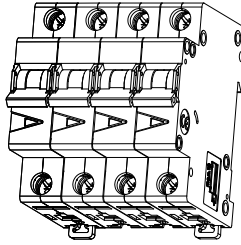
2-pole



3-pole



3+N-pole, 4-pole

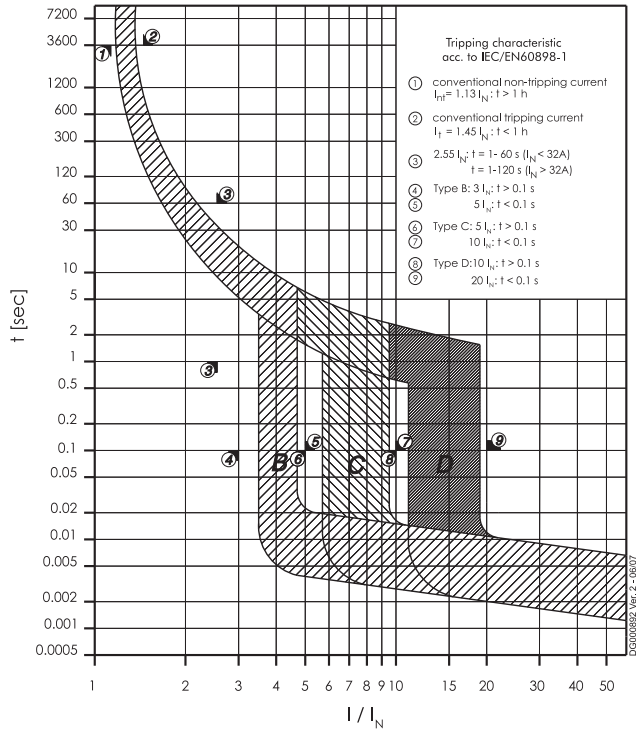




# FAZ-T | Specifications

## Tripping Characteristic FAZ-T

### Characteristics B, C and D - EN60898





# FAZ-T | Specifications

## Power Loss at $I_n$ FAZ-T

### Type B

|           | 1p    | 1pN   | 2p    | 3p    | 3pN*  | 4p    |
|-----------|-------|-------|-------|-------|-------|-------|
| $I_n$ [A] | P [W] | P [W] | P [W] | P [W] | P [W] | P [W] |
| 1         | 1.6   | 1.7   | 3.1   | 4.7   | 4.8   | 6.3   |
| 2         | 1.4   | 1.5   | 2.8   | 4.1   | 4.3   | 5.5   |
| 3         | 2.5   | 2.7   | 5.0   | 7.6   | 7.8   | 10.1  |
| 4         | 1.4   | 1.6   | 2.9   | 4.4   | 4.5   | 5.8   |
| 6         | 1.8   | 2.0   | 3.6   | 5.5   | 5.6   | 7.3   |
| 10        | 1.9   | 2.1   | 3.9   | 5.9   | 6.1   | 7.8   |
| 12        | 2.8   | 3.2   | 5.9   | 8.7   | 9.0   | 11.5  |
| 13        | 2.5   | 2.9   | 5.3   | 7.8   | 8.1   | 10.3  |
| 15        | 2.1   | 2.4   | 4.4   | 6.5   | 6.7   | 8.6   |
| 16        | 2.2   | 2.6   | 4.7   | 6.9   | 7.2   | 9.1   |
| 20        | 3.2   | 3.6   | 6.6   | 9.8   | 10.1  | 13.0  |
| 25        | 3.0   | 3.5   | 6.4   | 9.4   | 9.7   | 12.4  |
| 32        | 3.7   | 4.4   | 8.1   | 12.1  | 12.5  | 15.8  |
| 40        | 3.4   | 4.1   | 7.5   | 11.2  | 11.5  | 14.6  |

\*symmetrical load

### Type C

|           | 1p    | 1pN   | 2p    | 3p    | 3pN*  | 4p    |
|-----------|-------|-------|-------|-------|-------|-------|
| $I_n$ [A] | P [W] | P [W] | P [W] | P [W] | P [W] | P [W] |
| 1         | 1.6   | 1.7   | 3.1   | 4.7   | 4.8   | 6.3   |
| 2         | 1.4   | 1.5   | 2.8   | 4.1   | 4.3   | 5.5   |
| 3         | 1.2   | 1.3   | 2.4   | 3.6   | 3.7   | 4.8   |
| 4         | 1.4   | 1.6   | 2.9   | 4.4   | 4.5   | 5.8   |
| 6         | 1.5   | 1.6   | 2.9   | 4.4   | 4.6   | 5.9   |
| 10        | 1.5   | 1.7   | 3.0   | 4.6   | 4.7   | 6.1   |
| 12        | 2.1   | 2.4   | 4.4   | 6.5   | 6.8   | 8.6   |
| 13        | 2.5   | 2.9   | 5.3   | 7.8   | 8.1   | 10.3  |
| 15        | 2.1   | 2.4   | 4.4   | 6.5   | 6.7   | 8.6   |
| 16        | 2.2   | 2.6   | 4.7   | 6.9   | 7.2   | 9.1   |
| 20        | 3.2   | 3.6   | 6.6   | 9.8   | 10.1  | 13.0  |
| 25        | 3.0   | 3.5   | 6.4   | 9.4   | 9.7   | 12.4  |
| 32        | 3.7   | 4.4   | 8.1   | 12.1  | 12.5  | 15.8  |
| 40        | 3.4   | 4.1   | 7.5   | 11.2  | 11.5  | 14.6  |

\*symmetrical load

### Type D

|           | 1p    | 1pN   | 2p    | 3p    | 3pN*  | 4p    |
|-----------|-------|-------|-------|-------|-------|-------|
| $I_n$ [A] | P [W] | P [W] | P [W] | P [W] | P [W] | P [W] |
| 1         | 0.8   | 0.9   | 1.6   | 2.4   | 2.5   | 3.2   |
| 2         | 1.0   | 1.1   | 2.0   | 3.0   | 3.1   | 4.0   |
| 3         | 1.2   | 1.3   | 2.4   | 3.6   | 3.7   | 4.8   |
| 4         | 1.4   | 1.6   | 2.9   | 4.4   | 4.5   | 5.8   |
| 6         | 1.5   | 1.6   | 2.9   | 4.4   | 4.6   | 5.9   |
| 10        | 1.5   | 1.7   | 3.0   | 4.6   | 4.7   | 6.1   |
| 12        | 1.7   | 2.0   | 3.6   | 5.3   | 5.4   | 7.0   |
| 13        | 1.9   | 2.2   | 4.0   | 5.9   | 6.1   | 7.8   |
| 15        | 2.1   | 2.4   | 4.4   | 6.5   | 6.7   | 8.6   |
| 16        | 2.2   | 2.6   | 4.7   | 6.9   | 7.2   | 9.1   |
| 20        | 2.0   | 2.2   | 4.1   | 6.1   | 6.2   | 8.1   |
| 25        | 2.5   | 2.9   | 5.2   | 7.7   | 7.9   | 10.2  |
| 32        | 3.4   | 4.0   | 7.4   | 11.1  | 11.4  | 14.5  |
| 40        | 3.2   | 3.8   | 7.0   | 10.4  | 10.7  | 13.6  |

\*symmetrical load



# FAZ-T | Specifications

## Influence of Ambient Temperature FAZ-T

On Load Carrying Capacity (temperature derating)

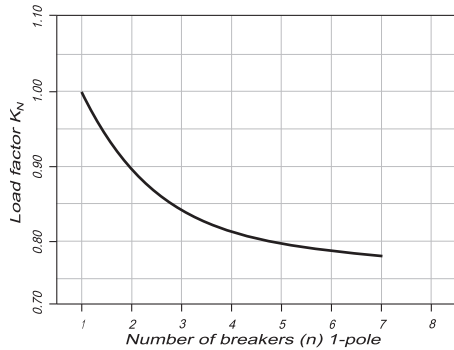
| $I_N$ [A] | Ambient temperature T [°C] |     |     |     |     |     |     |    |      |      |      |      |     |      |      |      |      |
|-----------|----------------------------|-----|-----|-----|-----|-----|-----|----|------|------|------|------|-----|------|------|------|------|
|           | -40                        | -30 | -20 | -10 | 0   | 10  | 20  | 30 | 35   | 40   | 45   | 50   | 55  | 60   | 65   | 70   | 75   |
| 1         | 1,3                        | 1,2 | 1,2 | 1,2 | 1,1 | 1,1 | 1   | 1  | 0,99 | 0,97 | 0,95 | 0,93 | 0,9 | 0,89 | 0,87 | 0,85 | 0,83 |
| 2         | 2,6                        | 2,5 | 2,4 | 2,3 | 2,2 | 2,2 | 2,1 | 2  | 2    | 1,9  | 1,9  | 1,9  | 1,8 | 1,8  | 1,7  | 1,7  | 1,7  |
| 3         | 3,8                        | 3,7 | 3,6 | 3,5 | 3,4 | 3,3 | 3,1 | 3  | 3    | 2,9  | 2,8  | 2,8  | 2,7 | 2,7  | 2,6  | 2,5  | 2,5  |
| 4         | 5,1                        | 5   | 4,8 | 4,7 | 4,5 | 4,3 | 4,2 | 4  | 3,9  | 3,9  | 3,8  | 3,7  | 3,6 | 3,5  | 3,5  | 3,4  | 3,3  |
| 6         | 7,7                        | 7,5 | 7,2 | 7   | 6,7 | 6,5 | 6,3 | 6  | 5,9  | 5,8  | 5,7  | 5,6  | 5,4 | 5,3  | 5,2  | 5,1  | 5    |
| 10        | 13                         | 12  | 12  | 12  | 11  | 11  | 10  | 10 | 9,9  | 9,7  | 9,5  | 9,3  | 9   | 8,9  | 8,7  | 8,5  | 8,3  |
| 12        | 15                         | 15  | 14  | 14  | 13  | 13  | 13  | 12 | 12   | 12   | 11   | 11   | 11  | 11   | 10   | 10   | 10   |
| 13        | 17                         | 16  | 16  | 15  | 15  | 14  | 14  | 13 | 13   | 13   | 12   | 12   | 12  | 12   | 11   | 11   | 11   |
| 15        | 19                         | 19  | 18  | 17  | 17  | 16  | 16  | 15 | 15   | 15   | 14   | 14   | 14  | 13   | 13   | 13   | 12   |
| 16        | 20                         | 20  | 19  | 19  | 18  | 17  | 17  | 16 | 16   | 15   | 15   | 15   | 14  | 14   | 14   | 14   | 13   |
| 20        | 26                         | 25  | 24  | 23  | 22  | 22  | 21  | 20 | 20   | 19   | 19   | 19   | 18  | 18   | 17   | 17   | 17   |
| 25        | 32                         | 31  | 30  | 29  | 28  | 27  | 26  | 25 | 25   | 24   | 24   | 23   | 23  | 22   | 22   | 21   | 21   |
| 32        | 41                         | 40  | 38  | 37  | 36  | 35  | 33  | 32 | 32   | 31   | 30   | 30   | 29  | 28   | 28   | 27   | 26   |
| 40        | 51                         | 50  | 48  | 47  | 45  | 43  | 42  | 40 | 39   | 39   | 38   | 37   | 36  | 35   | 35   | 34   | 33   |

## Influence of the Line Frequency

On the Instantaneous Tripping Current  $I_{MA}$

|                                     | Line Frequency f [Hz]          |     |     |     |     |     |     |
|-------------------------------------|--------------------------------|-----|-----|-----|-----|-----|-----|
|                                     | 16 <sup>2</sup> / <sub>3</sub> | 50  | 60  | 100 | 200 | 300 | 400 |
| $I_{MA}(f)/I_{MA}(50\text{Hz})$ [%] | 91                             | 100 | 101 | 106 | 115 | 134 | 141 |

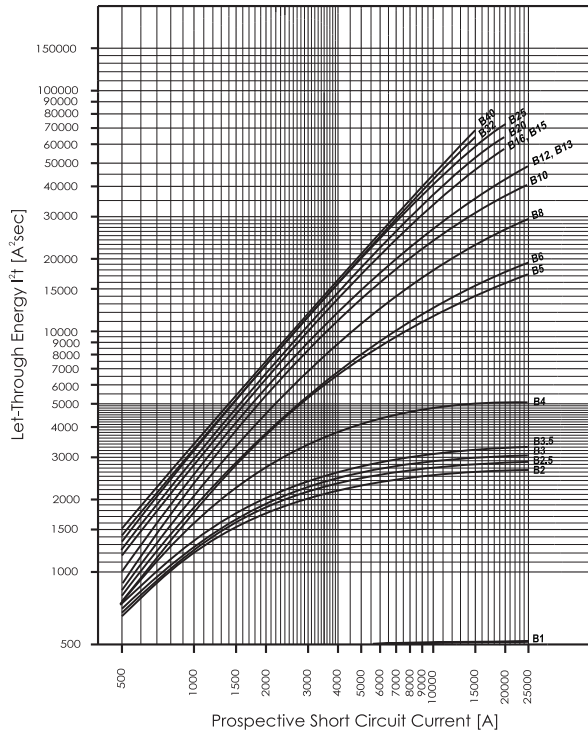
## Load rating in case of circuit breakers arranged one next to the other



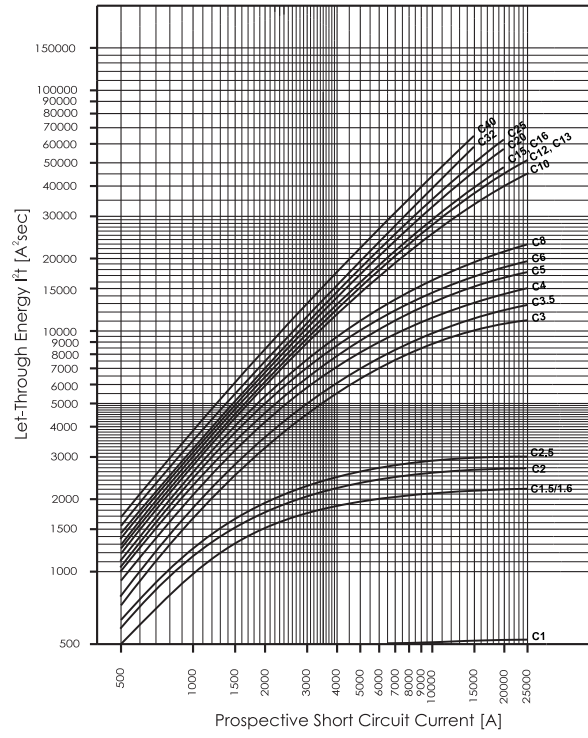
# FAZ-T | Specifications

## Maximum Let-Through Energy FAZ-T

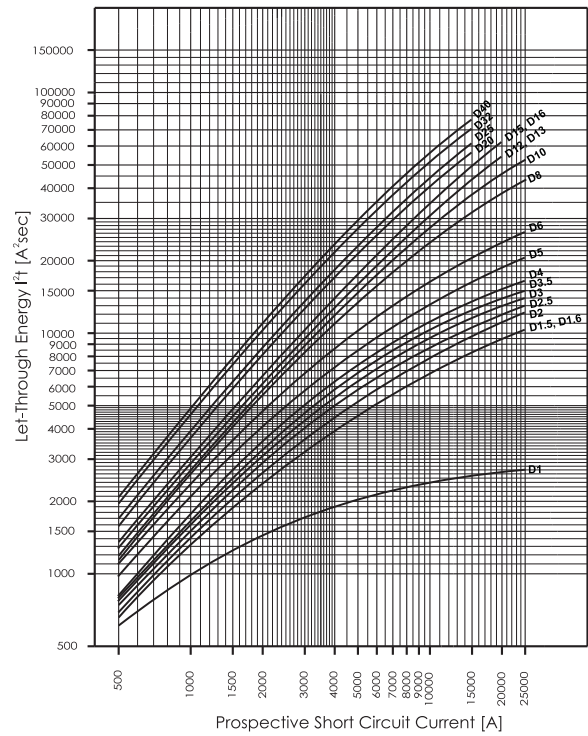
Type B



Type C



Type D

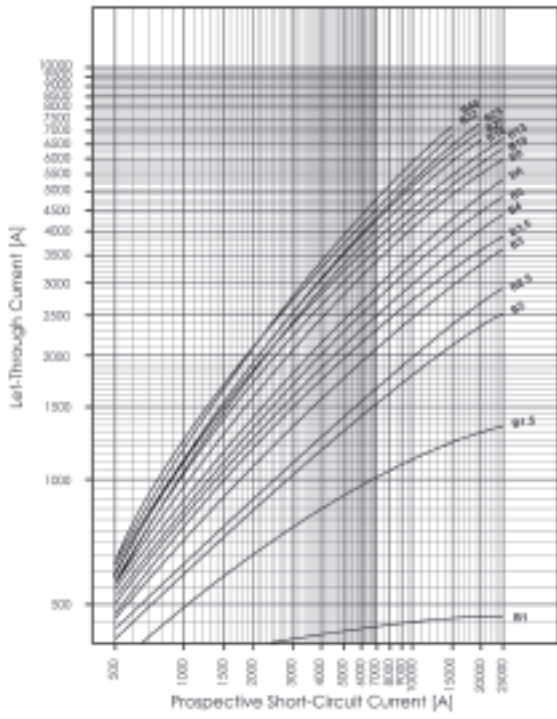




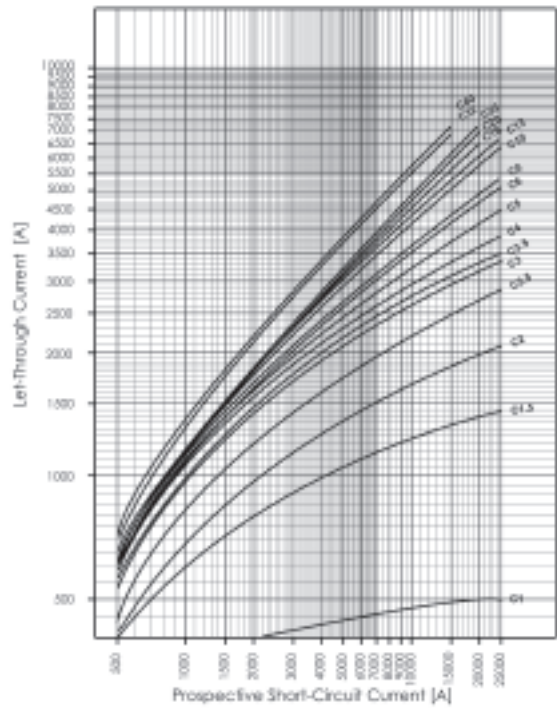
# FAZ-T | Specifications

## Maximum Let-Through Current FAZ-T

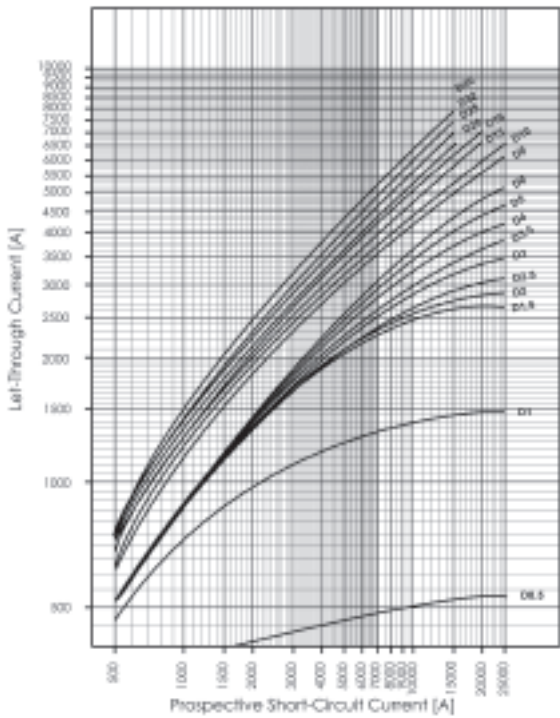
Type B



Type C





Type D





# FAZ-...-DC | Characteristic C

## FAZ-...-DC Miniature Circuit Breakers (MCBs) Characteristic C

|  | Rated<br>current<br>$I_n$ (A) | Rated<br>voltage<br>IEC/EN<br>60947-2<br>(V DC) | Breaking<br>capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Type<br>Designation | Article No. | Units<br>per<br>package |
|--|-------------------------------|---|--|---------------------|-------------|-------------------------|
| <b>1-pole</b>  |                               |   |  |                     |             |                         |
|   | 2                             | 220   | 10   | FAZ-C2/1-DC         | 279122      | 12/120                  |
|  | 3                             | 250   | 10   | FAZ-C3/1-DC         | 279123      | 12/120                  |
|  | 4                             | 250   | 10   | FAZ-C4/1-DC         | 279124      | 12/120                  |
|  | 6                             | 250   | 10   | FAZ-C6/1-DC         | 279125      | 12/120                  |
|  | 10                            | 250   | 10   | FAZ-C10/1-DC        | 279126      | 12/120                  |
|  | 13                            | 250   | 10   | FAZ-C13/1-DC        | 279127      | 12/120                  |
|  | 16                            | 250   | 10   | FAZ-C16/1-DC        | 279128      | 12/120                  |
|  | 20                            | 250   | 10   | FAZ-C20/1-DC        | 279129      | 12/120                  |
|  | 25                            | 250   | 10   | FAZ-C25/1-DC        | 279130      | 12/120                  |
|  | 32                            | 250   | 10   | FAZ-C32/1-DC        | 279131      | 12/120                  |
|  | 40                            | 250   | 10   | FAZ-C40/1-DC        | 279132      | 12/120                  |
|  | 50                            | 250   | 10   | FAZ-C50/1-DC        | 279133      | 12/120                  |
| <b>2-pole</b>  |                               |   |  |                     |             |                         |
|  | 2                             | 440   | 10   | FAZ-C2/2-DC         | 279134      | 1/60                    |
|  | 3                             | 500   | 10   | FAZ-C3/2-DC         | 279135      | 1/60                    |
|  | 4                             | 500   | 10   | FAZ-C4/2-DC         | 279136      | 1/60                    |
|  | 6                             | 500   | 10   | FAZ-C6/2-DC         | 279137      | 1/60                    |
|  | 10                            | 500   | 10   | FAZ-C10/2-DC        | 279138      | 1/60                    |
|  | 13                            | 500   | 10   | FAZ-C13/2-DC        | 279139      | 1/60                    |
|  | 16                            | 500   | 10   | FAZ-C16/2-DC        | 279140      | 1/60                    |
|  | 20                            | 500   | 10   | FAZ-C20/2-DC        | 279141      | 1/60                    |
|  | 25                            | 500   | 10   | FAZ-C25/2-DC        | 279142      | 1/60                    |
|  | 32                            | 500   | 10   | FAZ-C32/2-DC        | 279143      | 1/60                    |
|  | 40                            | 500   | 10   | FAZ-C40/2-DC        | 279144      | 1/60                    |
|  | 50                            | 500   | 10   | FAZ-C50/2-DC        | 279145      | 1/60                    |

SG08511

SG08511





# FAZ-...-DC | Specifications

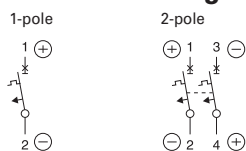
## Specifications

### Technical data

|   | <b>FAZ-DC *)</b>                                    |  |
|---|---|--|
| Productstandard                             | IEC/EN 60947-2                                      |  |
| Number of poles                             | 1, 2  |  |
| <b>Mechanical specifications</b>            |   |  |
| Device width                                | 17.7 mm (1p), 36 mm (2p)                            |  |
| Frame size                                  | 45 mm   |  |
| Socket size                                 | 80 mm   |  |
| Device depth                                | 60 mm   |  |
| Terminals                                   | lift terminal                                       |  |
| Terminal capacity rigid solid/stranded wire | 1-25 mm <sup>2</sup>                                |  |
| Terminal screw                              | M5 (with slotted screw acc. to EN ISO 4757-Z2, PZ2) |  |
| Terminal torque                             | max. 2.4 Nm   |  |
| Snap on fixing                              | tristable (on DIN rail acc. to EN 50022)            |  |
| Finger proof                                | acc.to VBG4, ÖVE EN-6                               |  |
| Degree of Protection (DIN VDE 0470)         |   |  |
| Surface mounted                             | IP 20   |  |
| Built-in behind panel                       | IP 40   |  |
| Contact position indicator                  | red / green   |  |
| <b>Electrical specifications</b>            |   |  |
| Rated voltage DC                            | $U_n$   | 2 A type: 220V (per pole)<br>3-50 A types: 250V (per pole)     |
| Rated current                               | $I_n$   | Type C: 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50 A           |
| Rated insulation voltage                    | $U_i$   | 440 V  |
| Rated impulse withstand voltage             | $U_{imp}$   | 4 kV (1.2/50)µsec  |
| <b>Tripping characteristic</b>              |   |  |
| Conventional non-tripping current           | $I_{nt}$  | $I_{nt}=1.13 I_n$  |
| Conventional tripping current               | $I_t$   | $I_t=1.45 I_n$   |
| Reference temperature                       |   | 30 °C  |
| Temperature factor                          |   | 0.4% /K  |
| Instantaneous tripping current              | $I_{mt}$  | type C: $7 I_n < I_{mt} = 15 I_n; t(I_{mt}) < 0,1 \text{ sec}$ |
| Rated short-circuit braking capacity        | $I_{cu}$  | 10 kA  |
| Selectivity class                           |   | 3  |
| Number of electrical operations             |   | > 4000   |
| Number of mechanical operations             |   | > 20000  |
| Climatic conditions                         |   | acc. to IEC 68-2 (25..55°C / 90..95% RH)                       |

\*) not for PV string protection!

### Connection diagrams

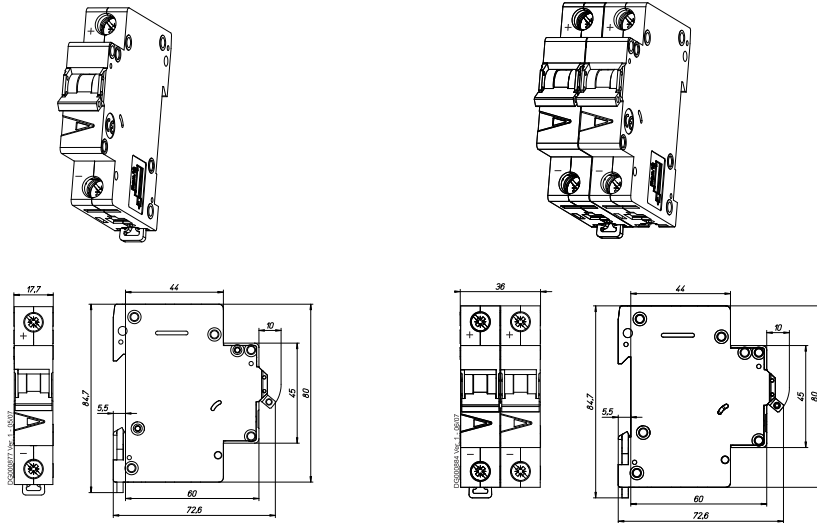


# FAZ-...-DC | Specifications

## Dimensions (mm) FAZ-...-DC

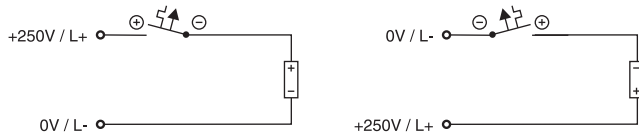
1-pole

2-pole

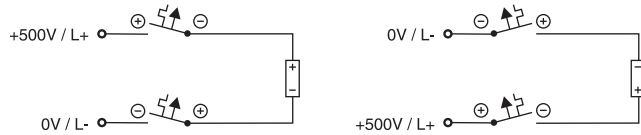


## Connection examples FAZ-...-DC

Connection example at 250V=, 1-pole

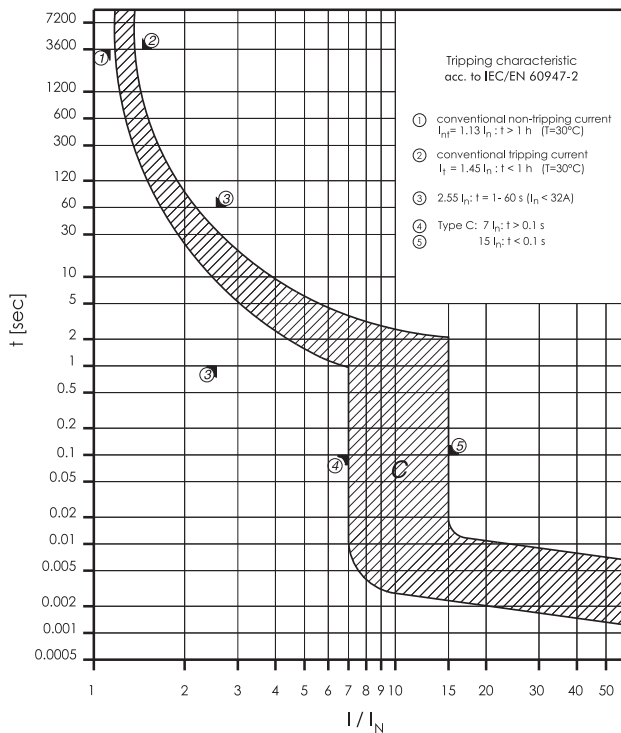


Connection example at 500V=, 2-pole



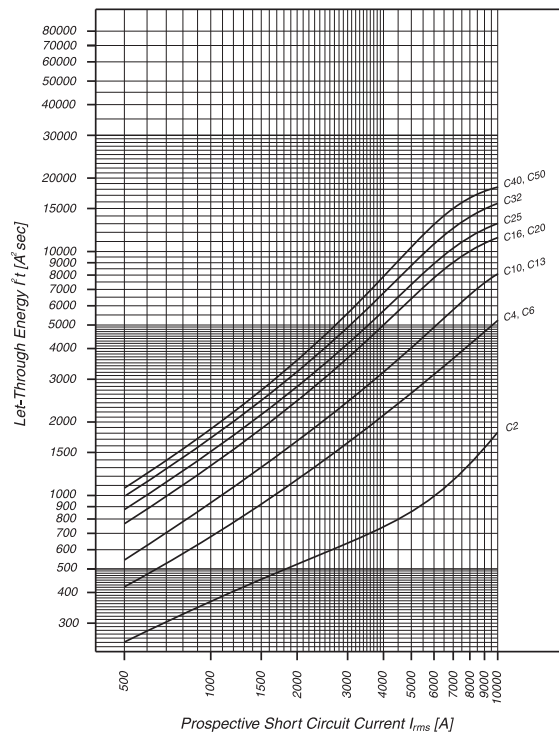
## Tripping Characteristic FAZ-...-DC

Characteristics C - IEC/EN 60947-2



## Maximum Let-Through Energy FAZ-...-DC

Type C





# FAZ-...-NA | Characteristic B

## FAZ-...-NA Miniature Circuit Breakers (MCBs) Characteristic B

|               | Rated current<br>$I_n$ (A) | Rated voltage<br>IEC/EN<br>60947-2<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL489<br>(V) | Breaking capacity<br>acc. to<br>UL489<br>(kA) | SWD    | NFPA 79       | Type<br>Designation | Article No. | Units<br>per<br>package |
|---------------|----------------------------|---|---|-------------------------------|---|--------|---------------|---------------------|-------------|-------------------------|
| <b>1-pole</b> |                            |   |   |                               |   |        |               |                     |             |                         |
| 1             | 240/415                    | 15  | 277   | 10                            | SWD   | AWG 18 | FAZ-B1/1-NA   | 132414              | 12/120      |                         |
| 1,5           | 240/415                    | 15  | 277   | 10                            | SWD   | AWG 18 | FAZ-B1,5/1-NA | 132415              | 12/120      |                         |
| 2             | 240/415                    | 15  | 277   | 10                            | SWD   | AWG 18 | FAZ-B2/1-NA   | 132416              | 12/120      |                         |
| 3             | 240/415                    | 15  | 277   | 10                            | SWD   | AWG 18 | FAZ-B3/1-NA   | 132417              | 12/120      |                         |
| 4             | 240/415                    | 15  | 277   | 10                            | SWD   | AWG 18 | FAZ-B4/1-NA   | 132418              | 12/120      |                         |
| 5             | 240/415                    | 15  | 277   | 10                            | SWD   | AWG 18 | FAZ-B5/1-NA   | 132419              | 12/120      |                         |
| 6             | 240/415                    | 15  | 277   | 10                            | SWD   | AWG 18 | FAZ-B6/1-NA   | 132680              | 12/120      |                         |
| 7             | 240/415                    | 15  | 277   | 10                            | SWD   | AWG 18 | FAZ-B7/1-NA   | 132681              | 12/120      |                         |
| 8             | 240/415                    | 15  | 277   | 10                            | SWD   | AWG 16 | FAZ-B8/1-NA   | 132682              | 12/120      |                         |
| 10            | 240/415                    | 15  | 277   | 10                            | SWD   | AWG 16 | FAZ-B10/1-NA  | 132683              | 12/120      |                         |
| 13            | 240/415                    | 15  | 277   | 10                            | SWD   |        | FAZ-B13/1-NA  | 132684              | 12/120      |                         |
| 15            | 240/415                    | 15  | 277   | 14                            | SWD   |        | FAZ-B15/1-NA  | 132685              | 12/120      |                         |
| 16            | 240/415                    | 15  | 277   | 14                            | SWD   |        | FAZ-B16/1-NA  | 132686              | 12/120      |                         |
| 20            | 240/415                    | 15  | 277   | 14                            | SWD   |        | FAZ-B20/1-NA  | 132687              | 12/120      |                         |
| 25            | 240/415                    | 15  | 277   | 14                            |   |        | FAZ-B25/1-NA  | 132688              | 12/120      |                         |
| 30            | 240/415                    | 15  | 277   | 10                            |   |        | FAZ-B30/1-NA  | 132689              | 12/120      |                         |
| 32            | 240/415                    | 15  | 277   | 10                            |   |        | FAZ-B32/1-NA  | 132690              | 12/120      |                         |
| 35            | 240/415                    | 15  | 240   | 10                            |   |        | FAZ-B35/1-NA  | 132691              | 12/120      |                         |
| 40            | 240/415                    | 15  | 240   | 10                            |   |        | FAZ-B40/1-NA  | 132692              | 12/120      |                         |
| <b>2-pole</b> |                            |   |   |                               |   |        |               |                     |             |                         |
| 1             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B1/2-NA   | 132693              | 1/60        |                         |
| 1,5           | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B1,5/2-NA | 132694              | 1/60        |                         |
| 2             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B2/2-NA   | 132695              | 1/60        |                         |
| 3             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B3/2-NA   | 132696              | 1/60        |                         |
| 4             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B4/2-NA   | 132697              | 1/60        |                         |
| 5             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B5/2-NA   | 132698              | 1/60        |                         |
| 6             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B6/2-NA   | 132699              | 1/60        |                         |
| 7             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B7/2-NA   | 132700              | 1/60        |                         |
| 8             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 16 | FAZ-B8/2-NA   | 132701              | 1/60        |                         |
| 10            | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 16 | FAZ-B10/2-NA  | 132702              | 1/60        |                         |
| 13            | 415                        | 15  | 480Y/277  | 10                            | SWD   |        | FAZ-B13/2-NA  | 132703              | 1/60        |                         |
| 15            | 415                        | 15  | 480Y/277  | 14                            | SWD   |        | FAZ-B15/2-NA  | 132704              | 1/60        |                         |
| 16            | 415                        | 15  | 480Y/277  | 14                            | SWD   |        | FAZ-B16/2-NA  | 132705              | 1/60        |                         |
| 20            | 415                        | 15  | 480Y/277  | 14                            | SWD   |        | FAZ-B20/2-NA  | 132706              | 1/60        |                         |
| 25            | 415                        | 15  | 480Y/277  | 14                            |   |        | FAZ-B25/2-NA  | 132707              | 1/60        |                         |
| 30            | 415                        | 15  | 480Y/277  | 10                            |   |        | FAZ-B30/2-NA  | 132708              | 1/60        |                         |
| 32            | 415                        | 15  | 480Y/277  | 10                            |   |        | FAZ-B32/2-NA  | 132709              | 1/60        |                         |
| 35            | 415                        | 15  | 240   | 10                            |   |        | FAZ-B35/2-NA  | 132710              | 1/60        |                         |
| 40            | 415                        | 15  | 240   | 10                            |   |        | FAZ-B40/2-NA  | 132711              | 1/60        |                         |
| <b>3-pole</b> |                            |   |   |                               |   |        |               |                     |             |                         |
| 1             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B1/3-NA   | 132712              | 1/40        |                         |
| 1,5           | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B1,5/3-NA | 132713              | 1/40        |                         |
| 2             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B2/3-NA   | 132714              | 1/40        |                         |
| 3             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B3/3-NA   | 132715              | 1/40        |                         |
| 4             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B4/3-NA   | 132716              | 1/40        |                         |
| 5             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B5/3-NA   | 132717              | 1/40        |                         |
| 6             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B6/3-NA   | 132718              | 1/40        |                         |
| 7             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 18 | FAZ-B7/3-NA   | 132719              | 1/40        |                         |
| 8             | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 16 | FAZ-B8/3-NA   | 132720              | 1/40        |                         |
| 10            | 415                        | 15  | 480Y/277  | 10                            | SWD   | AWG 16 | FAZ-B10/3-NA  | 132721              | 1/40        |                         |
| 13            | 415                        | 15  | 480Y/277  | 10                            | SWD   |        | FAZ-B13/3-NA  | 132722              | 1/40        |                         |
| 15            | 415                        | 15  | 480Y/277  | 14                            | SWD   |        | FAZ-B15/3-NA  | 132723              | 1/40        |                         |
| 16            | 415                        | 15  | 480Y/277  | 14                            | SWD   |        | FAZ-B16/3-NA  | 132724              | 1/40        |                         |
| 20            | 415                        | 15  | 480Y/277  | 14                            | SWD   |        | FAZ-B20/3-NA  | 132725              | 1/40        |                         |
| 25            | 415                        | 15  | 480Y/277  | 14                            |   |        | FAZ-B25/3-NA  | 132726              | 1/40        |                         |
| 30            | 415                        | 15  | 480Y/277  | 10                            |   |        | FAZ-B30/3-NA  | 132727              | 1/40        |                         |
| 32            | 415                        | 15  | 480Y/277  | 10                            |   |        | FAZ-B32/3-NA  | 132728              | 1/40        |                         |
| 35            | 415                        | 15  | 240   | 10                            |   |        | FAZ-B35/3-NA  | 132729              | 1/40        |                         |
| 40            | 415                        | 15  | 240   | 10                            |   |        | FAZ-B40/3-NA  | 132730              | 1/40        |                         |

SG09011



SG09111



SG09211










# FAZ-...-NA | Characteristic C

## FAZ-...-NA Miniature Circuit Breakers (MCBs) Characteristic C

|   | Rated current<br>$I_n$ (A) | Rated voltage<br>IEC/EN<br>60947-2<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL489<br>(V) | Breaking capacity<br>acc. to<br>UL489<br>(kA) | SWD | NFPA 79 | Type<br>Designation | Article No. | Units<br>per<br>package |
|---|----------------------------|---|---|-------------------------------|---|-----|---------|---------------------|-------------|-------------------------|
| <b>1-pole</b>   |                            |   |   |                               |   |     |         |                     |             |                         |
|    | 0,5                        | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18  | FAZ-C0,5/1-NA       | 102077      | 12/120                  |
|   | 1                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18  | FAZ-C1/1-NA         | 102078      | 12/120                  |
|   | 1,5                        | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18  | FAZ-C1,5/1-NA       | 102079      | 12/120                  |
|   | 2                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18  | FAZ-C2/1-NA         | 102080      | 12/120                  |
|   | 3                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18  | FAZ-C3/1-NA         | 102081      | 12/120                  |
|   | 4                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18  | FAZ-C4/1-NA         | 102082      | 12/120                  |
|   | 5                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18  | FAZ-C5/1-NA         | 102083      | 12/120                  |
|   | 6                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18  | FAZ-C6/1-NA         | 102084      | 12/120                  |
|   | 7                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18  | FAZ-C7/1-NA         | 102085      | 12/120                  |
|   | 8                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 16  | FAZ-C8/1-NA         | 102086      | 12/120                  |
|   | 10                         | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 16  | FAZ-C10/1-NA        | 102087      | 12/120                  |
|   | 13                         | 240/415                                   | 15  | 277                           | 10  | SWD |         | FAZ-C13/1-NA        | 102088      | 12/120                  |
|   | 15                         | 240/415                                   | 15  | 277                           | 14  | SWD |         | FAZ-C15/1-NA        | 102089      | 12/120                  |
|   | 16                         | 240/415                                   | 15  | 277                           | 14  | SWD |         | FAZ-C16/1-NA        | 102090      | 12/120                  |
|   | 20                         | 240/415                                   | 15  | 277                           | 14  | SWD |         | FAZ-C20/1-NA        | 102091      | 12/120                  |
|   | 25                         | 240/415                                   | 15  | 277                           | 14  |     |         | FAZ-C25/1-NA        | 102092      | 12/120                  |
|   | 30                         | 240/415                                   | 15  | 277                           | 10  |     |         | FAZ-C30/1-NA        | 102093      | 12/120                  |
|   | 32                         | 240/415                                   | 15  | 277                           | 10  |     |         | FAZ-C32/1-NA        | 102094      | 12/120                  |
|   | 35                         | 240/415                                   | 15  | 240                           | 10  |     |         | FAZ-C35/1-NA        | 102095      | 12/120                  |
|   | 40                         | 240/415                                   | 15  | 240                           | 10  |     |         | FAZ-C40/1-NA        | 102096      | 12/120                  |
| <b>2-pole</b>   |                            |   |   |                               |   |     |         |                     |             |                         |
|  | 0,5                        | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C0,5/2-NA       | 102157      | 1/60                    |
|   | 1                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C1/2-NA         | 102158      | 1/60                    |
|   | 1,5                        | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C1,5/2-NA       | 102159      | 1/60                    |
|   | 2                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C2/2-NA         | 102160      | 1/60                    |
|   | 3                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C3/2-NA         | 102161      | 1/60                    |
|   | 4                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C4/2-NA         | 102162      | 1/60                    |
|   | 5                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C5/2-NA         | 102163      | 1/60                    |
|   | 6                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C6/2-NA         | 102164      | 1/60                    |
|   | 7                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C7/2-NA         | 102165      | 1/60                    |
|   | 8                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 16  | FAZ-C8/2-NA         | 102166      | 1/60                    |
|   | 10                         | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 16  | FAZ-C10/2-NA        | 102167      | 1/60                    |
|   | 13                         | 415                                       | 15  | 480Y/277                      | 10  | SWD |         | FAZ-C13/2-NA        | 102168      | 1/60                    |
|   | 15                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |         | FAZ-C15/2-NA        | 102169      | 1/60                    |
|   | 16                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |         | FAZ-C16/2-NA        | 102170      | 1/60                    |
|   | 20                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |         | FAZ-C20/2-NA        | 102171      | 1/60                    |
|   | 25                         | 415                                       | 15  | 480Y/277                      | 14  |     |         | FAZ-C25/2-NA        | 102172      | 1/60                    |
|   | 30                         | 415                                       | 15  | 480Y/277                      | 10  |     |         | FAZ-C30/2-NA        | 102173      | 1/60                    |
|   | 32                         | 415                                       | 15  | 480Y/277                      | 10  |     |         | FAZ-C32/2-NA        | 102174      | 1/60                    |
|   | 35                         | 415                                       | 15  | 240                           | 10  |     |         | FAZ-C35/2-NA        | 102175      | 1/60                    |
|   | 40                         | 415                                       | 15  | 240                           | 10  |     |         | FAZ-C40/2-NA        | 102176      | 1/60                    |
| <b>3-pole</b>   |                            |   |   |                               |   |     |         |                     |             |                         |
|  | 0,5                        | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C0,5/3-NA       | 102237      | 1/40                    |
|   | 1                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C1/3-NA         | 102238      | 1/40                    |
|   | 1,5                        | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C1,5/3-NA       | 102239      | 1/40                    |
|   | 2                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C2/3-NA         | 102240      | 1/40                    |
|   | 3                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C3/3-NA         | 102241      | 1/40                    |
|   | 4                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C4/3-NA         | 102242      | 1/40                    |
|   | 5                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C5/3-NA         | 102243      | 1/40                    |
|   | 6                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C6/3-NA         | 102244      | 1/40                    |
|   | 7                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18  | FAZ-C7/3-NA         | 102245      | 1/40                    |
|   | 8                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 16  | FAZ-C8/3-NA         | 102246      | 1/40                    |
|   | 10                         | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 16  | FAZ-C10/3-NA        | 102247      | 1/40                    |
|   | 13                         | 415                                       | 15  | 480Y/277                      | 10  | SWD |         | FAZ-C13/3-NA        | 102248      | 1/40                    |
|   | 15                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |         | FAZ-C15/3-NA        | 102249      | 1/40                    |
|   | 16                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |         | FAZ-C16/3-NA        | 102250      | 1/40                    |
|   | 20                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |         | FAZ-C20/3-NA        | 102251      | 1/40                    |
|   | 25                         | 415                                       | 15  | 480Y/277                      | 14  |     |         | FAZ-C25/3-NA        | 102252      | 1/40                    |
|   | 30                         | 415                                       | 15  | 480Y/277                      | 10  |     |         | FAZ-C30/3-NA        | 102253      | 1/40                    |
|   | 32                         | 415                                       | 15  | 480Y/277                      | 10  |     |         | FAZ-C32/3-NA        | 102254      | 1/40                    |
|   | 35                         | 415                                       | 15  | 240                           | 10  |     |         | FAZ-C35/3-NA        | 102255      | 1/40                    |
|   | 40                         | 415                                       | 15  | 240                           | 10  |     |         | FAZ-C40/3-NA        | 102256      | 1/40                    |





# FAZ-...-NA | Characteristic D

## FAZ-...-NA Miniature Circuit Breakers (MCBs) Characteristic D

|               | Rated current<br>$I_n$ (A) | Rated voltage<br>IEC/EN<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL489<br>(V) | Breaking capacity<br>acc. to<br>UL489<br>(kA) | SWD | NFPA 79 | Type<br>Designation | Article No. | Units<br>per<br>package |
|---------------|----------------------------|--------------------------------|---|-------------------------------|---|-----|---------|---------------------|-------------|-------------------------|
| <b>1-pole</b> |                            |                                |   |                               |   |     |         |                     |             |                         |
| 0,5           | 240/415                    | 15                             | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-D0,5/1-NA       | 102097      | 12/120                  |
| 1             | 240/415                    | 15                             | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-D1/1-NA         | 102098      | 12/120                  |
| 1,5           | 240/415                    | 15                             | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-D1,5/1-NA       | 102099      | 12/120                  |
| 2             | 240/415                    | 15                             | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-D2/1-NA         | 102100      | 12/120                  |
| 3             | 240/415                    | 15                             | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-D3/1-NA         | 102101      | 12/120                  |
| 4             | 240/415                    | 15                             | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-D4/1-NA         | 102102      | 12/120                  |
| 5             | 240/415                    | 15                             | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-D5/1-NA         | 102103      | 12/120                  |
| 6             | 240/415                    | 15                             | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-D6/1-NA         | 102104      | 12/120                  |
| 7             | 240/415                    | 15                             | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-D7/1-NA         | 102105      | 12/120                  |
| 8             | 240/415                    | 15                             | 277   | 10                            | 10  | SWD | AWG 16  | FAZ-D8/1-NA         | 102106      | 12/120                  |
| 10            | 240/415                    | 15                             | 277   | 10                            | 10  | SWD | AWG 16  | FAZ-D10/1-NA        | 102107      | 12/120                  |
| 13            | 240/415                    | 15                             | 277   | 14                            | 14  | SWD |         | FAZ-D13/1-NA        | 102108      | 12/120                  |
| 15            | 240/415                    | 15                             | 277   | 14                            | 14  | SWD |         | FAZ-D15/1-NA        | 102109      | 12/120                  |
| 16            | 240/415                    | 15                             | 277   | 14                            | 14  | SWD |         | FAZ-D16/1-NA        | 102110      | 12/120                  |
| 20            | 240/415                    | 15                             | 277   | 14                            | 14  | SWD |         | FAZ-D20/1-NA        | 102111      | 12/120                  |
| 25            | 240/415                    | 15                             | 277   | 10                            | 10  |     |         | FAZ-D25/1-NA        | 102112      | 12/120                  |
| 30            | 240/415                    | 15                             | 277   | 10                            | 10  |     |         | FAZ-D30/1-NA        | 102113      | 12/120                  |
| 32            | 240/415                    | 15                             | 277   | 10                            | 10  |     |         | FAZ-D32/1-NA        | 102114      | 12/120                  |
| 35            | 240/415                    | 15                             | 240   | 10                            | 10  |     |         | FAZ-D35/1-NA        | 102115      | 12/120                  |
| 40            | 240/415                    | 15                             | 240   | 10                            | 10  |     |         | FAZ-D40/1-NA        | 102116      | 12/120                  |
| <b>2-pole</b> |                            |                                |   |                               |   |     |         |                     |             |                         |
| 0,5           | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D0,5/2-NA       | 102177      | 1/60                    |
| 1             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D1/2-NA         | 102178      | 1/60                    |
| 1,5           | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D1,5/2-NA       | 102179      | 1/60                    |
| 2             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D2/2-NA         | 102180      | 1/60                    |
| 3             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D3/2-NA         | 102181      | 1/60                    |
| 4             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D4/2-NA         | 102182      | 1/60                    |
| 5             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D5/2-NA         | 102183      | 1/60                    |
| 6             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D6/2-NA         | 102184      | 1/60                    |
| 7             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D7/2-NA         | 102185      | 1/60                    |
| 8             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 16  | FAZ-D8/2-NA         | 102186      | 1/60                    |
| 10            | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 16  | FAZ-D10/2-NA        | 102187      | 1/60                    |
| 13            | 415                        | 15                             | 480Y/277  | 14                            | 14  | SWD |         | FAZ-D13/2-NA        | 102188      | 1/60                    |
| 15            | 415                        | 15                             | 480Y/277  | 14                            | 14  | SWD |         | FAZ-D15/2-NA        | 102189      | 1/60                    |
| 16            | 415                        | 15                             | 480Y/277  | 14                            | 14  | SWD |         | FAZ-D16/2-NA        | 102190      | 1/60                    |
| 20            | 415                        | 15                             | 480Y/277  | 14                            | 14  | SWD |         | FAZ-D20/2-NA        | 102191      | 1/60                    |
| 25            | 415                        | 15                             | 480Y/277  | 10                            | 10  |     |         | FAZ-D25/2-NA        | 102192      | 1/60                    |
| 30            | 415                        | 15                             | 480Y/277  | 10                            | 10  |     |         | FAZ-D30/2-NA        | 102193      | 1/60                    |
| 32            | 415                        | 15                             | 480Y/277  | 10                            | 10  |     |         | FAZ-D32/2-NA        | 102194      | 1/60                    |
| 35            | 415                        | 15                             | 240   | 10                            | 10  |     |         | FAZ-D35/2-NA        | 102195      | 1/60                    |
| 40            | 415                        | 15                             | 240   | 10                            | 10  |     |         | FAZ-D40/2-NA        | 102196      | 1/60                    |
| <b>3-pole</b> |                            |                                |   |                               |   |     |         |                     |             |                         |
| 0,5           | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D0,5/3-NA       | 102257      | 1/40                    |
| 1             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D1/3-NA         | 102258      | 1/40                    |
| 1,5           | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D1,5/3-NA       | 102259      | 1/40                    |
| 2             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D2/3-NA         | 102260      | 1/40                    |
| 3             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D3/3-NA         | 102261      | 1/40                    |
| 4             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D4/3-NA         | 102262      | 1/40                    |
| 5             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D5/3-NA         | 102263      | 1/40                    |
| 6             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D6/3-NA         | 102264      | 1/40                    |
| 7             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-D7/3-NA         | 102265      | 1/40                    |
| 8             | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 16  | FAZ-D8/3-NA         | 102266      | 1/40                    |
| 10            | 415                        | 15                             | 480Y/277  | 10                            | 10  | SWD | AWG 16  | FAZ-D10/3-NA        | 102267      | 1/40                    |
| 13            | 415                        | 15                             | 480Y/277  | 14                            | 14  | SWD |         | FAZ-D13/3-NA        | 102268      | 1/40                    |
| 15            | 415                        | 15                             | 480Y/277  | 14                            | 14  | SWD |         | FAZ-D15/3-NA        | 102269      | 1/40                    |
| 16            | 415                        | 15                             | 480Y/277  | 14                            | 14  | SWD |         | FAZ-D16/3-NA        | 102270      | 1/40                    |
| 20            | 415                        | 15                             | 480Y/277  | 14                            | 14  | SWD |         | FAZ-D20/3-NA        | 102271      | 1/40                    |
| 25            | 415                        | 15                             | 480Y/277  | 10                            | 10  |     |         | FAZ-D25/3-NA        | 102272      | 1/40                    |
| 30            | 415                        | 15                             | 480Y/277  | 10                            | 10  |     |         | FAZ-D30/3-NA        | 102273      | 1/40                    |
| 32            | 415                        | 15                             | 480Y/277  | 10                            | 10  |     |         | FAZ-D32/3-NA        | 102274      | 1/40                    |
| 35            | 415                        | 15                             | 240   | 10                            | 10  |     |         | FAZ-D35/3-NA        | 102275      | 1/40                    |
| 40            | 415                        | 15                             | 240   | 10                            | 10  |     |         | FAZ-D40/3-NA        | 102276      | 1/40                    |

SG09011



SG09111



SG09211





# FAZ-...-NA-DC | Characteristic C

## FAZ-...-NA-DC Miniature Circuit Breakers (MCBs) Characteristic C

|               | Rated current<br>$I_n$ (A) | Rated voltage<br>IEC/EN<br>60947-2<br>(V DC) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL489<br>(V) | Breaking capacity<br>acc. to<br>UL489<br>(kA) | SWD | NFPA 79 | Type<br>Designation | Article No. | Units<br>per<br>package |
|---------------|----------------------------|--|---|-------------------------------|---|-----|---------|---------------------|-------------|-------------------------|
| <b>1-pole</b> |                            |  |   |                               |   |     |         |                     |             |                         |
|               | 2                          | 220  | 10  | 125                           | 10  |     |         | FAZ-C2/1-NA-DC      | 113752      | 12/120                  |
|               | 3                          | 250  | 10  | 125                           | 10  |     |         | FAZ-C3/1-NA-DC      | 113753      | 12/120                  |
|               | 4                          | 250  | 10  | 125                           | 10  |     |         | FAZ-C4/1-NA-DC      | 113754      | 12/120                  |
|               | 5                          | 250  | 10  | 125                           | 10  |     |         | FAZ-C5/1-NA-DC      | 113755      | 12/120                  |
|               | 6                          | 250  | 10  | 125                           | 10  |     |         | FAZ-C6/1-NA-DC      | 113756      | 12/120                  |
|               | 7                          | 250  | 10  | 125                           | 10  |     |         | FAZ-C7/1-NA-DC      | 113757      | 12/120                  |
|               | 8                          | 250  | 10  | 125                           | 10  |     |         | FAZ-C8/1-NA-DC      | 113758      | 12/120                  |
|               | 10                         | 250  | 10  | 125                           | 10  |     |         | FAZ-C10/1-NA-DC     | 113759      | 12/120                  |
|               | 13                         | 250  | 10  | 125                           | 10  |     |         | FAZ-C13/1-NA-DC     | 113760      | 12/120                  |
|               | 15                         | 250  | 10  | 125                           | 10  |     |         | FAZ-C15/1-NA-DC     | 113761      | 12/120                  |
|               | 16                         | 250  | 10  | 125                           | 10  |     |         | FAZ-C16/1-NA-DC     | 113762      | 12/120                  |
|               | 20                         | 250  | 10  | 125                           | 10  |     |         | FAZ-C20/1-NA-DC     | 113763      | 12/120                  |
|               | 25                         | 250  | 10  | 125                           | 10  |     |         | FAZ-C25/1-NA-DC     | 113764      | 12/120                  |
|               | 30                         | 250  | 10  | 125                           | 10  |     |         | FAZ-C30/1-NA-DC     | 113765      | 12/120                  |
|               | 32                         | 250  | 10  | 125                           | 10  |     |         | FAZ-C32/1-NA-DC     | 113766      | 12/120                  |
|               | 35                         | 250  | 10  | 125                           | 10  |     |         | FAZ-C35/1-NA-DC     | 113767      | 12/120                  |
|               | 40                         | 250  | 10  | 125                           | 10  |     |         | FAZ-C40/1-NA-DC     | 113768      | 12/120                  |

SG09011



SG09111



### 2-pole

|  |    |     |    |     |    |  |  |                 |        |      |
|--|----|-----|----|-----|----|--|--|-----------------|--------|------|
|  | 2  | 440 | 10 | 250 | 10 |  |  | FAZ-C2/2-NA-DC  | 137239 | 1/60 |
|  | 3  | 500 | 10 | 250 | 10 |  |  | FAZ-C3/2-NA-DC  | 137250 | 1/60 |
|  | 4  | 500 | 10 | 250 | 10 |  |  | FAZ-C4/2-NA-DC  | 137251 | 1/60 |
|  | 5  | 500 | 10 | 250 | 10 |  |  | FAZ-C5/2-NA-DC  | 137252 | 1/60 |
|  | 6  | 500 | 10 | 250 | 10 |  |  | FAZ-C6/2-NA-DC  | 120638 | 1/60 |
|  | 7  | 500 | 10 | 250 | 10 |  |  | FAZ-C7/2-NA-DC  | 120639 | 1/60 |
|  | 8  | 500 | 10 | 250 | 10 |  |  | FAZ-C8/2-NA-DC  | 120640 | 1/60 |
|  | 10 | 500 | 10 | 250 | 10 |  |  | FAZ-C10/2-NA-DC | 120641 | 1/60 |
|  | 13 | 500 | 10 | 250 | 10 |  |  | FAZ-C13/2-NA-DC | 120642 | 1/60 |
|  | 15 | 500 | 10 | 250 | 10 |  |  | FAZ-C15/2-NA-DC | 120643 | 1/60 |
|  | 16 | 500 | 10 | 250 | 10 |  |  | FAZ-C16/2-NA-DC | 120644 | 1/60 |
|  | 20 | 500 | 10 | 250 | 10 |  |  | FAZ-C20/2-NA-DC | 120645 | 1/60 |
|  | 25 | 500 | 10 | 250 | 10 |  |  | FAZ-C25/2-NA-DC | 120646 | 1/60 |
|  | 30 | 500 | 10 | 250 | 10 |  |  | FAZ-C30/2-NA-DC | 120647 | 1/60 |
|  | 32 | 500 | 10 | 250 | 10 |  |  | FAZ-C32/2-NA-DC | 120648 | 1/60 |
|  | 35 | 500 | 10 | 250 | 10 |  |  | FAZ-C35/2-NA-DC | 120649 | 1/60 |
|  | 40 | 500 | 10 | 250 | 10 |  |  | FAZ-C40/2-NA-DC | 120650 | 1/60 |





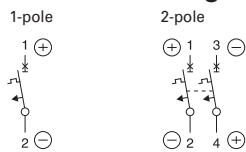
# FAZ-...-NA-DC | Specifications

## Specifications

### Technical data

|   | <b>FAZ-NA-DC</b>  |  |
|---|---|--|
| Productstandard                             | UL 489, CSA C22.2 No 5-02                                       |  |
| Number of poles                             | 1, 2  |  |
| <b>Mechanical specifications</b>            |   |  |
| Device width                                | 1 pole = 0.697 inch, 2 poles = 1.394 inch                       |  |
| Frame size                                  | 1.772 inch  |  |
| Socket size                                 | 4.134 inch  |  |
| Device depth                                | 2.362 inch  |  |
| Terminals                                   | lift terminal / ring-tongue                                     |  |
| Terminal capacity rigid solid/stranded wire | 1 Wire: AWG 18-6 (Cu only)<br>2 Wires: AWG 18-10 (Cu only)      |  |
| Terminal screw                              | M5 (with slotted screw Pozidriv PZ2)                            |  |
| Terminal torque                             | #18-12 AWG: 21 lb-in<br>#10-8 AWG: 25 lb-in<br>#6 AWG: 36 lb-in |  |
| Snap on fixing                              | tristable (on DIN Rail acc. to IEC/EN 60715)                    |  |
| Finger proof                                | acc.to VBG4, ÖVE EN-6   |  |
| Contact position indicator                  | red / green   |  |
| <b>Electrical specifications</b>            |   |  |
| Rated voltage DC                            | $U_n$   | 125 V d.c. (1p)<br>250 V d.c. (2p)                           |
| Rated current                               | $I_n$   | 6, 7, 8, 10, 13, 15, 16, 20, 25, 30, 32, 35, 40 A            |
| Rated impulse withstand voltage             | $U_{imp}$   | 4 kV (1.2/50) $\mu$ sec                                      |
| <b>Tripping characteristic</b>              |   |  |
| Conventional non-tripping current           | $I_{nt}=1.0 I_n$  |  |
| Conventional tripping current               | $I_t=1.35 I_n$  |  |
| Reference temperature                       | 40 °C   |  |
| Temperature factor                          | 0.5% /K   |  |
| Instantaneous tripping current              | $I_{mt}$  | $7 I_n < I_{mt} = 15 I_n \cdot t (I_{mt}) < 0,1 \text{ sec}$ |
| Current interrupting rating                 | 10 kA   |  |
| Number of electrical operating cycles       | 6000  |  |
| Number of mechanical operating cycles       | 10000   |  |
| Climatic conditions                         | acc. to IEC 68-2 (25..55°C / 90..95% RH)                        |  |

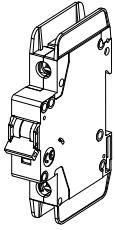
### Connection diagrams



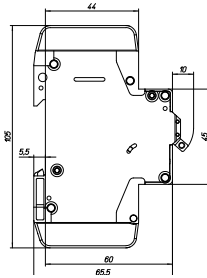
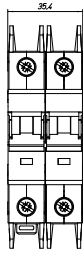
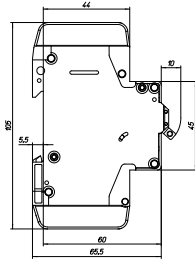
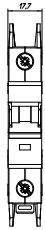
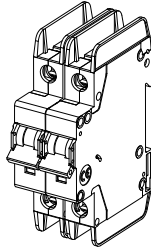
# FAZ-...-NA-DC | Specifications

## Dimensions (mm) FAZ-NA-DC

1-pole

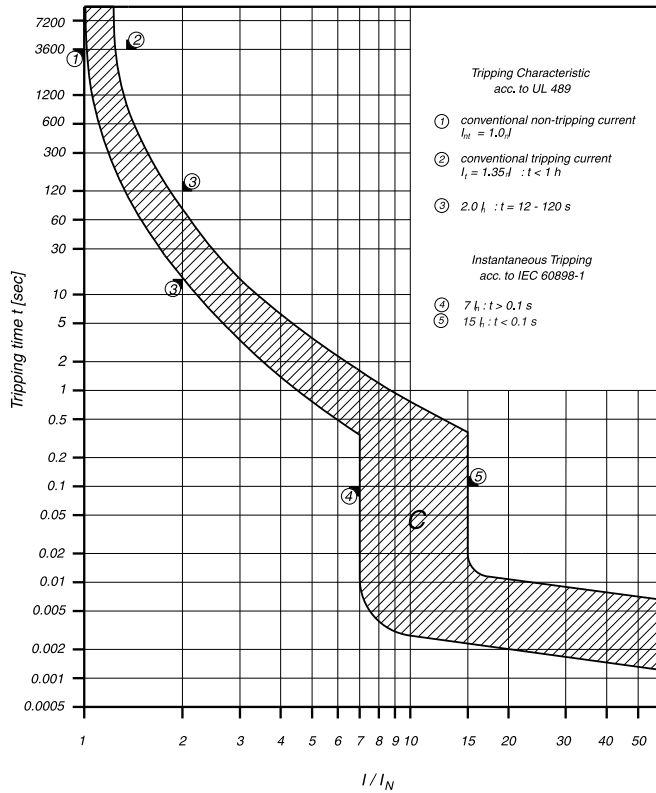


2-pole



## Tripping Characteristic FAZ-NA-DC

### Characteristics C - UL 489





# FAZ-...-RT | Characteristic B

## FAZ-...-RT Miniature Circuit Breakers (MCBs) Characteristic B

|               | Rated current<br>$I_n$ (A) | Rated voltage<br>IEC/EN<br>60947-2<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL489<br>(V) | Breaking capacity<br>acc. to<br>UL489<br>(kA) | SWD | NFPA 79 | Type<br>Designation | Article No. | Units<br>per<br>package |
|---------------|----------------------------|---|---|-------------------------------|---|-----|---------|---------------------|-------------|-------------------------|
| <b>1-pole</b> |                            |   |   |                               |   |     |         |                     |             |                         |
| 1             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-B1/1-RT         | 132731      | 12/120                  |
| 1,5           | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-B1,5/1-RT       | 132732      | 12/120                  |
| 2             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-B2/1-RT         | 132733      | 12/120                  |
| 3             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-B3/1-RT         | 132734      | 12/120                  |
| 4             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-B4/1-RT         | 132735      | 12/120                  |
| 5             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-B5/1-RT         | 132736      | 12/120                  |
| 6             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-B6/1-RT         | 132737      | 12/120                  |
| 7             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-B7/1-RT         | 132738      | 12/120                  |
| 8             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 16  | FAZ-B8/1-RT         | 132739      | 12/120                  |
| 10            | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 16  | FAZ-B10/1-RT        | 132740      | 12/120                  |
| 13            | 240/415                    | 15  | 277   | 10                            | 10  | SWD |         | FAZ-B13/1-RT        | 132741      | 12/120                  |
| 15            | 240/415                    | 15  | 277   | 14                            | 14  | SWD |         | FAZ-B15/1-RT        | 132742      | 12/120                  |
| 16            | 240/415                    | 15  | 277   | 14                            | 14  | SWD |         | FAZ-B16/1-RT        | 132743      | 12/120                  |
| 20            | 240/415                    | 15  | 277   | 14                            | 14  | SWD |         | FAZ-B20/1-RT        | 132744      | 12/120                  |
| 25            | 240/415                    | 15  | 277   | 14                            | 14  |     |         | FAZ-B25/1-RT        | 132745      | 12/120                  |
| 30            | 240/415                    | 15  | 277   | 10                            | 10  |     |         | FAZ-B30/1-RT        | 132746      | 12/120                  |
| 32            | 240/415                    | 15  | 277   | 10                            | 10  |     |         | FAZ-B32/1-RT        | 132747      | 12/120                  |
| 35            | 240/415                    | 15  | 240   | 10                            | 10  |     |         | FAZ-B35/1-RT        | 132748      | 12/120                  |
| 40            | 240/415                    | 15  | 240   | 10                            | 10  |     |         | FAZ-B40/1-RT        | 132749      | 12/120                  |
| <b>2-pole</b> |                            |   |   |                               |   |     |         |                     |             |                         |
| 1             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B1/2-RT         | 132750      | 1/60                    |
| 1,5           | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B1,5/2-RT       | 132751      | 1/60                    |
| 2             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B2/2-RT         | 132752      | 1/60                    |
| 3             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B3/2-RT         | 132753      | 1/60                    |
| 4             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B4/2-RT         | 132754      | 1/60                    |
| 5             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B5/2-RT         | 132755      | 1/60                    |
| 6             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B6/2-RT         | 132756      | 1/60                    |
| 7             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B7/2-RT         | 132757      | 1/60                    |
| 8             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 16  | FAZ-B8/2-RT         | 132758      | 1/60                    |
| 10            | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 16  | FAZ-B10/2-RT        | 132759      | 1/60                    |
| 13            | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD |         | FAZ-B13/2-RT        | 132760      | 1/60                    |
| 15            | 415                        | 15  | 480Y/277  | 14                            | 14  | SWD |         | FAZ-B15/2-RT        | 132761      | 1/60                    |
| 16            | 415                        | 15  | 480Y/277  | 14                            | 14  | SWD |         | FAZ-B16/2-RT        | 132762      | 1/60                    |
| 20            | 415                        | 15  | 480Y/277  | 14                            | 14  | SWD |         | FAZ-B20/2-RT        | 132763      | 1/60                    |
| 25            | 415                        | 15  | 480Y/277  | 14                            | 14  |     |         | FAZ-B25/2-RT        | 132764      | 1/60                    |
| 30            | 415                        | 15  | 480Y/277  | 10                            | 10  |     |         | FAZ-B30/2-RT        | 132765      | 1/60                    |
| 32            | 415                        | 15  | 480Y/277  | 10                            | 10  |     |         | FAZ-B32/2-RT        | 132766      | 1/60                    |
| 35            | 415                        | 15  | 240   | 10                            | 10  |     |         | FAZ-B35/2-RT        | 132767      | 1/60                    |
| 40            | 415                        | 15  | 240   | 10                            | 10  |     |         | FAZ-B40/2-RT        | 132768      | 1/60                    |
| <b>3-pole</b> |                            |   |   |                               |   |     |         |                     |             |                         |
| 1             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B1/3-RT         | 132769      | 1/40                    |
| 1,5           | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B1,5/3-RT       | 132770      | 1/40                    |
| 2             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B2/3-RT         | 132771      | 1/40                    |
| 3             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B3/3-RT         | 132772      | 1/40                    |
| 4             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B4/3-RT         | 132773      | 1/40                    |
| 5             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B5/3-RT         | 132774      | 1/40                    |
| 6             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B6/3-RT         | 132775      | 1/40                    |
| 7             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-B7/3-RT         | 132776      | 1/40                    |
| 8             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 16  | FAZ-B8/3-RT         | 132777      | 1/40                    |
| 10            | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 16  | FAZ-B10/3-RT        | 132778      | 1/40                    |
| 13            | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD |         | FAZ-B13/3-RT        | 132779      | 1/40                    |
| 15            | 415                        | 15  | 480Y/277  | 14                            | 14  | SWD |         | FAZ-B15/3-RT        | 132780      | 1/40                    |
| 16            | 415                        | 15  | 480Y/277  | 14                            | 14  | SWD |         | FAZ-B16/3-RT        | 132781      | 1/40                    |
| 20            | 415                        | 15  | 480Y/277  | 14                            | 14  | SWD |         | FAZ-B20/3-RT        | 132782      | 1/40                    |
| 25            | 415                        | 15  | 480Y/277  | 14                            | 14  |     |         | FAZ-B25/3-RT        | 132783      | 1/40                    |
| 30            | 415                        | 15  | 480Y/277  | 10                            | 10  |     |         | FAZ-B30/3-RT        | 132784      | 1/40                    |
| 32            | 415                        | 15  | 480Y/277  | 10                            | 10  |     |         | FAZ-B32/3-RT        | 132785      | 1/40                    |
| 35            | 415                        | 15  | 240   | 10                            | 10  |     |         | FAZ-B35/3-RT        | 132786      | 1/40                    |
| 40            | 415                        | 15  | 240   | 10                            | 10  |     |         | FAZ-B40/3-RT        | 132787      | 1/40                    |

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# FAZ-...-RT | Characteristic C

## FAZ-...-RT Miniature Circuit Breakers (MCBs) Characteristic C

|               | Rated current<br>$I_n$ (A) | Rated voltage<br>IEC/EN<br>60947-2<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL489<br>(V) | Breaking capacity<br>acc. to<br>UL489<br>(kA) | SWD | NFPA 79 | Type<br>Designation | Article No. | Units<br>per<br>package |
|---------------|----------------------------|---|---|-------------------------------|---|-----|---------|---------------------|-------------|-------------------------|
| <b>1-pole</b> |                            |   |   |                               |   |     |         |                     |             |                         |
| 0,5           | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-C0,5/1-RT       | 102117      | 12/120                  |
| 1             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-C1/1-RT         | 102118      | 12/120                  |
| 1,5           | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-C1,5/1-RT       | 102119      | 12/120                  |
| 2             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-C2/1-RT         | 102120      | 12/120                  |
| 3             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-C3/1-RT         | 102121      | 12/120                  |
| 4             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-C4/1-RT         | 102122      | 12/120                  |
| 5             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-C5/1-RT         | 102123      | 12/120                  |
| 6             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-C6/1-RT         | 102124      | 12/120                  |
| 7             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 18  | FAZ-C7/1-RT         | 102125      | 12/120                  |
| 8             | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 16  | FAZ-C8/1-RT         | 102126      | 12/120                  |
| 10            | 240/415                    | 15  | 277   | 10                            | 10  | SWD | AWG 16  | FAZ-C10/1-RT        | 102127      | 12/120                  |
| 13            | 240/415                    | 15  | 277   | 10                            | 10  | SWD |         | FAZ-C13/1-RT        | 102128      | 12/120                  |
| 15            | 240/415                    | 15  | 277   | 14                            | 14  | SWD |         | FAZ-C15/1-RT        | 102129      | 12/120                  |
| 16            | 240/415                    | 15  | 277   | 14                            | 14  | SWD |         | FAZ-C16/1-RT        | 102130      | 12/120                  |
| 20            | 240/415                    | 15  | 277   | 14                            | 14  | SWD |         | FAZ-C20/1-RT        | 102131      | 12/120                  |
| 25            | 240/415                    | 15  | 277   | 14                            | 14  |     |         | FAZ-C25/1-RT        | 102132      | 12/120                  |
| 30            | 240/415                    | 15  | 277   | 10                            | 10  |     |         | FAZ-C30/1-RT        | 102133      | 12/120                  |
| 32            | 240/415                    | 15  | 277   | 10                            | 10  |     |         | FAZ-C32/1-RT        | 102134      | 12/120                  |
| 35            | 240/415                    | 15  | 240   | 10                            | 10  |     |         | FAZ-C35/1-RT        | 102135      | 12/120                  |
| 40            | 240/415                    | 15  | 240   | 10                            | 10  |     |         | FAZ-C40/1-RT        | 102136      | 12/120                  |
| <b>2-pole</b> |                            |   |   |                               |   |     |         |                     |             |                         |
| 0,5           | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C0,5/2-RT       | 102197      | 1/60                    |
| 1             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C1/2-RT         | 102198      | 1/60                    |
| 1,5           | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C1,5/2-RT       | 102199      | 1/60                    |
| 2             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C2/2-RT         | 102200      | 1/60                    |
| 3             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C3/2-RT         | 102201      | 1/60                    |
| 4             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C4/2-RT         | 102202      | 1/60                    |
| 5             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C5/2-RT         | 102203      | 1/60                    |
| 6             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C6/2-RT         | 102204      | 1/60                    |
| 7             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C7/2-RT         | 102205      | 1/60                    |
| 8             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 16  | FAZ-C8/2-RT         | 102206      | 1/60                    |
| 10            | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 16  | FAZ-C10/2-RT        | 102207      | 1/60                    |
| 13            | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD |         | FAZ-C13/2-RT        | 102208      | 1/60                    |
| 15            | 415                        | 15  | 480Y/277  | 14                            | 14  | SWD |         | FAZ-C15/2-RT        | 102209      | 1/60                    |
| 16            | 415                        | 15  | 480Y/277  | 14                            | 14  | SWD |         | FAZ-C16/2-RT        | 102210      | 1/60                    |
| 20            | 415                        | 15  | 480Y/277  | 14                            | 14  | SWD |         | FAZ-C20/2-RT        | 102211      | 1/60                    |
| 25            | 415                        | 15  | 480Y/277  | 14                            | 14  |     |         | FAZ-C25/2-RT        | 102212      | 1/60                    |
| 30            | 415                        | 15  | 480Y/277  | 10                            | 10  |     |         | FAZ-C30/2-RT        | 102213      | 1/60                    |
| 32            | 415                        | 15  | 480Y/277  | 10                            | 10  |     |         | FAZ-C32/2-RT        | 102214      | 1/60                    |
| 35            | 415                        | 15  | 240   | 10                            | 10  |     |         | FAZ-C35/2-RT        | 102215      | 1/60                    |
| 40            | 415                        | 15  | 240   | 10                            | 10  |     |         | FAZ-C40/2-RT        | 102216      | 1/60                    |
| <b>3-pole</b> |                            |   |   |                               |   |     |         |                     |             |                         |
| 0,5           | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C0,5/3-RT       | 102277      | 1/40                    |
| 1             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C1/3-RT         | 102278      | 1/40                    |
| 1,5           | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C1,5/3-RT       | 102279      | 1/40                    |
| 2             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C2/3-RT         | 102280      | 1/40                    |
| 3             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C3/3-RT         | 102281      | 1/40                    |
| 4             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C4/3-RT         | 102282      | 1/40                    |
| 5             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C5/3-RT         | 102283      | 1/40                    |
| 6             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C6/3-RT         | 102284      | 1/40                    |
| 7             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 18  | FAZ-C7/3-RT         | 102285      | 1/40                    |
| 8             | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 16  | FAZ-C8/3-RT         | 102286      | 1/40                    |
| 10            | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD | AWG 16  | FAZ-C10/3-RT        | 102287      | 1/40                    |
| 13            | 415                        | 15  | 480Y/277  | 10                            | 10  | SWD |         | FAZ-C13/3-RT        | 102288      | 1/40                    |
| 15            | 415                        | 15  | 480Y/277  | 14                            | 14  | SWD |         | FAZ-C15/3-RT        | 102289      | 1/40                    |
| 16            | 415                        | 15  | 480Y/277  | 14                            | 14  | SWD |         | FAZ-C16/3-RT        | 102290      | 1/40                    |
| 20            | 415                        | 15  | 480Y/277  | 14                            | 14  | SWD |         | FAZ-C20/3-RT        | 102291      | 1/40                    |
| 25            | 415                        | 15  | 480Y/277  | 14                            | 14  |     |         | FAZ-C25/3-RT        | 102292      | 1/40                    |
| 30            | 415                        | 15  | 480Y/277  | 10                            | 10  |     |         | FAZ-C30/3-RT        | 102293      | 1/40                    |
| 32            | 415                        | 15  | 480Y/277  | 10                            | 10  |     |         | FAZ-C32/3-RT        | 102294      | 1/40                    |
| 35            | 415                        | 15  | 240   | 10                            | 10  |     |         | FAZ-C35/3-RT        | 102295      | 1/40                    |
| 40            | 415                        | 15  | 240   | 10                            | 10  |     |         | FAZ-C40/3-RT        | 102296      | 1/40                    |

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# FAZ-...-RT | Characteristic D

## FAZ-...-RT Miniature Circuit Breakers (MCBs) Characteristic D

|   | Rated current<br>$I_n$ (A) | Rated voltage<br>IEC/EN<br>60947-2<br>(V) | Breaking capacity<br>acc. to<br>IEC/EN<br>60947-2<br>(kA) | Rated voltage<br>UL489<br>(V) | Breaking capacity<br>acc. to<br>UL489<br>(kA) | SWD | NFPA 79      | Type<br>Designation | Article No. | Units<br>per<br>package |
|---|----------------------------|---|---|-------------------------------|---|-----|--------------|---------------------|-------------|-------------------------|
| <b>1-pole</b>   |                            |   |   |                               |   |     |              |                     |             |                         |
|    | 0,5                        | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18       | FAZ-D0,5/1-RT       | 102137      | 12/120                  |
|   | 1                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18       | FAZ-D1/1-RT         | 102138      | 12/120                  |
|   | 1,5                        | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18       | FAZ-D1,5/1-RT       | 102139      | 12/120                  |
|   | 2                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18       | FAZ-D2/1-RT         | 102140      | 12/120                  |
|   | 3                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18       | FAZ-D3/1-RT         | 102141      | 12/120                  |
|   | 4                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18       | FAZ-D4/1-RT         | 102142      | 12/120                  |
|   | 5                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18       | FAZ-D5/1-RT         | 102143      | 12/120                  |
|   | 6                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18       | FAZ-D6/1-RT         | 102144      | 12/120                  |
|   | 7                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 18       | FAZ-D7/1-RT         | 102145      | 12/120                  |
|   | 8                          | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 16       | FAZ-D8/1-RT         | 102146      | 12/120                  |
|   | 10                         | 240/415                                   | 15  | 277                           | 10  | SWD | AWG 16       | FAZ-D10/1-RT        | 102147      | 12/120                  |
|   | 13                         | 240/415                                   | 15  | 277                           | 14  | SWD |              | FAZ-D13/1-RT        | 102148      | 12/120                  |
|   | 15                         | 240/415                                   | 15  | 277                           | 14  | SWD |              | FAZ-D15/1-RT        | 102149      | 12/120                  |
|   | 16                         | 240/415                                   | 15  | 277                           | 14  | SWD |              | FAZ-D16/1-RT        | 102150      | 12/120                  |
|   | 20                         | 240/415                                   | 15  | 277                           | 14  | SWD |              | FAZ-D20/1-RT        | 102151      | 12/120                  |
|   | 25                         | 240/415                                   | 15  | 277                           | 10  |     |              | FAZ-D25/1-RT        | 102152      | 12/120                  |
| 30  | 240/415                    | 15  | 277   | 10                            |   |     | FAZ-D30/1-RT | 102153              | 12/120      |                         |
| 32  | 240/415                    | 15  | 277   | 10                            |   |     | FAZ-D32/1-RT | 102154              | 12/120      |                         |
| 35  | 240/415                    | 15  | 240   | 10                            |   |     | FAZ-D35/1-RT | 102155              | 12/120      |                         |
| 40  | 240/415                    | 15  | 240   | 10                            |   |     | FAZ-D40/1-RT | 102156              | 12/120      |                         |
| <b>2-pole</b>   |                            |   |   |                               |   |     |              |                     |             |                         |
|  | 0,5                        | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D0,5/2-RT       | 102217      | 1/60                    |
|   | 1                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D1/2-RT         | 102218      | 1/60                    |
|   | 1,5                        | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D1,5/2-RT       | 102219      | 1/60                    |
|   | 2                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D2/2-RT         | 102220      | 1/60                    |
|   | 3                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D3/2-RT         | 102221      | 1/60                    |
|   | 4                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D4/2-RT         | 102222      | 1/60                    |
|   | 5                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D5/2-RT         | 102223      | 1/60                    |
|   | 6                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D6/2-RT         | 102224      | 1/60                    |
|   | 7                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D7/2-RT         | 102225      | 1/60                    |
|   | 8                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 16       | FAZ-D8/2-RT         | 102226      | 1/60                    |
|   | 10                         | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 16       | FAZ-D10/2-RT        | 102227      | 1/60                    |
|   | 13                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |              | FAZ-D13/2-RT        | 102228      | 1/60                    |
|   | 15                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |              | FAZ-D15/2-RT        | 102229      | 1/60                    |
|   | 16                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |              | FAZ-D16/2-RT        | 102230      | 1/60                    |
|   | 20                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |              | FAZ-D20/2-RT        | 102231      | 1/60                    |
|   | 25                         | 415                                       | 15  | 480Y/277                      | 10  |     |              | FAZ-D25/2-RT        | 102232      | 1/60                    |
| 30  | 415                        | 15  | 480Y/277  | 10                            |   |     | FAZ-D30/2-RT | 102233              | 1/60        |                         |
| 32  | 415                        | 15  | 480Y/277  | 10                            |   |     | FAZ-D32/2-RT | 102234              | 1/60        |                         |
| 35  | 415                        | 15  | 240   | 10                            |   |     | FAZ-D35/2-RT | 102235              | 1/60        |                         |
| 40  | 415                        | 15  | 240   | 10                            |   |     | FAZ-D40/2-RT | 102236              | 1/60        |                         |
| <b>3-pole</b>   |                            |   |   |                               |   |     |              |                     |             |                         |
|  | 0,5                        | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D0,5/3-RT       | 102297      | 1/40                    |
|   | 1                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D1/3-RT         | 102298      | 1/40                    |
|   | 1,5                        | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D1,5/3-RT       | 102299      | 1/40                    |
|   | 2                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D2/3-RT         | 102300      | 1/40                    |
|   | 3                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D3/3-RT         | 102301      | 1/40                    |
|   | 4                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D4/3-RT         | 102302      | 1/40                    |
|   | 5                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D5/3-RT         | 102303      | 1/40                    |
|   | 6                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D6/3-RT         | 102304      | 1/40                    |
|   | 7                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 18       | FAZ-D7/3-RT         | 102305      | 1/40                    |
|   | 8                          | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 16       | FAZ-D8/3-RT         | 102306      | 1/40                    |
|   | 10                         | 415                                       | 15  | 480Y/277                      | 10  | SWD | AWG 16       | FAZ-D10/3-RT        | 102307      | 1/40                    |
|   | 13                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |              | FAZ-D13/3-RT        | 102308      | 1/40                    |
|   | 15                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |              | FAZ-D15/3-RT        | 102309      | 1/40                    |
|   | 16                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |              | FAZ-D16/3-RT        | 102310      | 1/40                    |
|   | 20                         | 415                                       | 15  | 480Y/277                      | 14  | SWD |              | FAZ-D20/3-RT        | 102311      | 1/40                    |
|   | 25                         | 415                                       | 15  | 480Y/277                      | 10  |     |              | FAZ-D25/3-RT        | 102312      | 1/40                    |
| 30  | 415                        | 15  | 480Y/277  | 10                            |   |     | FAZ-D30/3-RT | 102313              | 1/40        |                         |
| 32  | 415                        | 15  | 480Y/277  | 10                            |   |     | FAZ-D32/3-RT | 102314              | 1/40        |                         |
| 35  | 415                        | 15  | 240   | 10                            |   |     | FAZ-D35/3-RT | 102315              | 1/40        |                         |
| 40  | 415                        | 15  | 240   | 10                            |   |     | FAZ-D40/3-RT | 102316              | 1/40        |                         |







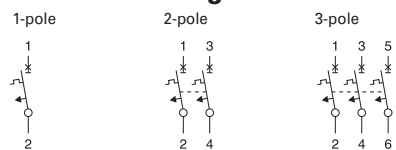
# FAZ-...-NA, -RT | Specifications IEC/EN

## Specifications

### Technical data IEC/EN

|   | FAZ-...-NA, -RT                                       |   |
|---|---|---|
| Productstandard                             | IEC/EN 60947-2  |   |
| Number of poles                             | 1, 2, 3   |   |
| <b>Mechanical specifications</b>            |   |   |
| Device width                                | 17.7mm (1-pole), 35.4 mm (2-poles), 53.1 mm (3-poles) |   |
| Frame size                                  | 45 mm   |   |
| Socket size                                 | 105 mm  |   |
| Device depth                                | 60 mm   |   |
| Terminals                                   | lift terminal / ring-tongue                           |   |
| Terminal capacity rigid solid/stranded wire | 1-25 mm <sup>2</sup>                                  |   |
| Terminal screw                              | M5 (with slotted screw Pozidriv PZ2)                  |   |
| Terminal torque                             | max. 2.4 Nm   |   |
| Snap on fixing                              | tristable (on DIN Rail acc. to IEC/EN 60715)          |   |
| Degree of Protection (DIN VDE 0470)         |   |   |
| Surface mounted                             | IP 20   |   |
| Built-in behind panel                       | IP 40   |   |
| Contact position indicator                  | red / green   |   |
| <b>Electrical specifications</b>            |   |   |
| Rated voltage                               | $U_n$   | 240/415 V AC  |
| Rated current                               | $I_n$   | 0.5, 1, 1.5, 2, 3, 4, 5, 6, 7, 8, 10, 13, 15, 16, 20, 25, 30, 32, 35, 40 A  |
| Rated insulation voltage                    | $U_i$   | 440 V AC  |
| Rated impulse withstand voltage             | $U_{imp}$   | 4 kV (1.2/50)μsec   |
| <b>Tripping characteristic</b>              |   |   |
| Conventional non-tripping current           | $I_{nt}$  | $I_{nt}=1.05 I_n$   |
| Conventional tripping current               | $I_t$   | $I_t=1.30 I_n$  |
| Reference temperature                       | 30 °C   |   |
| Temperature factor                          | 0.5% /K   |   |
| Instantaneous tripping current              | $I_{mt}$  | type B: $3 I_n < I_{mt} = 5 I_n \cdot t (I_{mt}) < 0,1 \text{ sec}$ (IEC/EN 60898-1)<br>type C: $5 I_n < I_{mt} = 10 I_n \cdot t (I_{mt}) < 0,1 \text{ sec}$ (IEC/EN 60898-1)<br>type D: $10 I_n < I_{mt} = 20 I_n \cdot t (I_{mt}) < 0,1 \text{ sec}$ (IEC/EN 60898-1) |
| Rated short-circuit braking capacity        | $I_{cu}$  | 15 kA   |
| Service short circuit capacity              | $I_{cs}$  | 7.5 kA  |
| Selectivity class                           | 3 (acc. to EN 60898)                                  |   |
| Number of electrical operations             | > 1500  |   |
| Number of mechanical operations             | > 10000   |   |
| Climatic conditions                         | acc. to IEC 68-2 (25..55°C / 90..95% RH)              |   |

### Connection diagrams





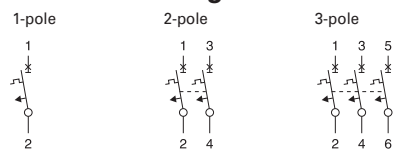
# FAZ-...-NA, -RT | Specifications UL

## Specifications

### Technical data UL

|  |          | <b>FAZ-...-NA, -RT</b>  |
|--|----------|---|
| Productstandard                        |          | UL 489 CSA C22.2 No. 5-02   |
| Number of poles                        |          | 1, 2, 3   |
| <b>Mechanical specifications</b>       |          |   |
| Device width                           |          | 0.697 in. (1-pole), 1.394 in. (2-poles), 2.090 in. (3-poles)  |
| Frame size                             |          | 1.772 in.   |
| Socket size                            |          | 4.134 in.   |
| Device depth                           |          | 2.362 in.   |
| Terminals                              |          | lift terminal / ring-tongue   |
| Terminal capacity                      |          | 1 Wire: #18-6 AWG (Cu only)<br>2 Wires: #18-10 AWG (Cu only)  |
| Terminal screw                         |          | M5 (with slotted screw Pozidriv PZ2)  |
| Terminal torque                        |          | #18-12 AWG: 21 lb-in<br>#10-8 AWG: 25 lb-in<br>#6 AWG: 36 lb-in   |
| Snap on fixing                         |          | tristable (on DIN Rail acc. to IEC/EN 60715)  |
| Contact position indicator             |          | red / green   |
| <b>Electrical specifications</b>       |          |   |
| Rated voltage                          | $U_n$    | 0.5-32 A: 480Y/277 V AC, 35-40 A: 240 V AC  |
| Rated current                          | $I_n$    | 0.5, 1, 1.5, 2, 3, 4, 5, 6, 7, 8, 10, 13, 15, 16, 20, 25, 30, 32, 35, 40 A  |
| <b>Tripping characteristic</b>         |          |   |
| Conventional non-tripping current      |          | $I_{nt}=1.00 I_n$   |
| Conventional tripping current          |          | $I_t=1.35 I_n$  |
| Reference temperature                  |          | 40 °C   |
| Temperature factor                     |          | 0.5% /K   |
| Instantaneous tripping current         | $I_{mt}$ | type C: $5 I_n < I_{mt} = 10 I_n$ ; $t(I_{mt}) < 0,1 \text{ sec}$<br>type D: $10 I_n < I_{mt} = 20 I_n$ ; $t(I_{mt}) < 0,1 \text{ sec}$ |
| Current interrupting rating            |          | 10 kA, 14 kA (types D13, B/C/D15, 16, 20, B/C25 A)  |
| Current-Limiting at 240 V / 10 kA      |          | 1p, 2p, 3p to $I^2t = 43 \text{ kA}^2\text{s}$ and $I_{peak} = 6.2 \text{ kA}$  |
| Current-Limiting at 480Y/277 V / 10 kA |          | 1p, 2p, 3p to $I^2t = 60 \text{ kA}^2\text{s}$ and $I_{peak} = 6.2 \text{ kA}$  |
| Current-Limiting at 480Y/277 V / 14 kA |          | 1p, 2p, 3p to $I^2t = 65 \text{ kA}^2\text{s}$ and $I_{peak} = 7.5 \text{ kA}$  |
| Selectivity class                      |          | 3 (acc. to EN 60898)  |
| Number of electrical operations        |          | 6000  |
| Number of mechanical operations        |          | 10000   |
| Climatic conditions                    |          | acc. to IEC 68-2 (25..55°C / 90..95% RH)  |

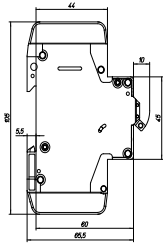
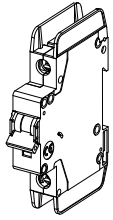
### Connection diagrams



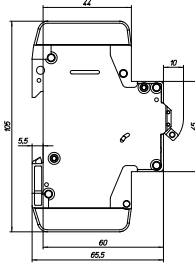
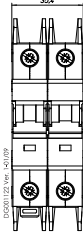
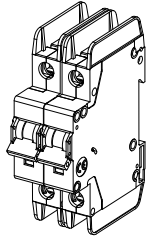
# FAZ-...-NA, -RT | Specifications

## Dimensions (mm) FAZ-...-NA, -RT

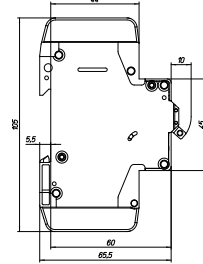
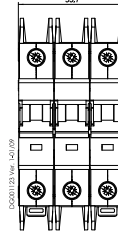
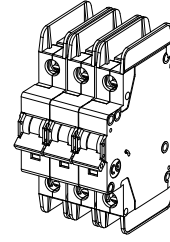
1-pole



2-pole

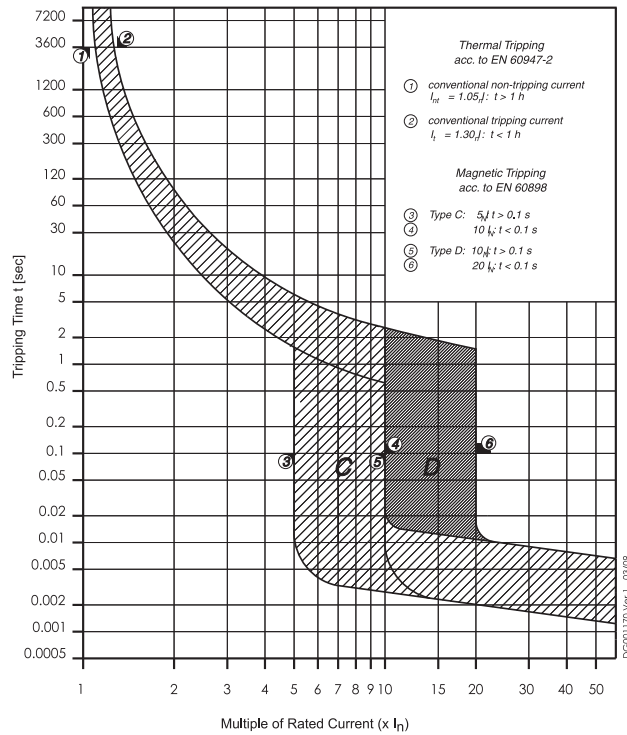


3-pole

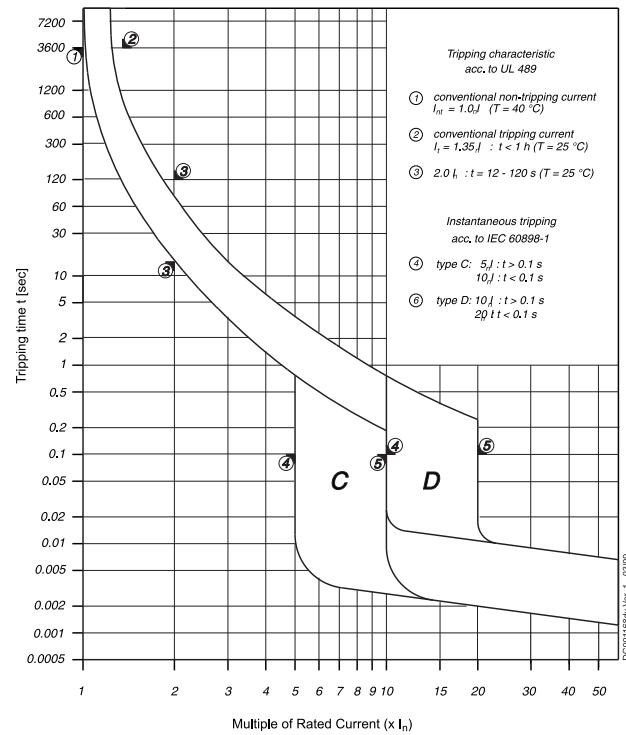


## Tripping Characteristic FAZ-...-NA, -RT

### Characteristics C and D - EN/IEC 60947-2



### Characteristics C and D - UL 489



# FAZ-...-NA, -RT | Specifications

## Internal Resistance FAZ-...-NA, -RT

### Type C

At room temperature (single pole)

| In [A] | Z* [mΩ] | R [mΩ] |
|--------|---------|--------|
| 0.5    | 6400    | 6300   |
| 1      | 1100    | 1080   |
| 1.5    | 560     | 550    |
| 2      | 340     | 330    |
| 3      | 132     | 130    |
| 4      | 86      | 85     |
| 5      | 70      | 69     |
| 6      | 31      | 30     |
| 7      | 28      | 27     |
| 8      | 20      | 19.6   |
| 10     | 15.8    | 15.5   |
| 13     | 12.3    | 12.1   |
| 15     | 7.1     | 7.0    |
| 16     | 7.1     | 7.0    |
| 20     | 6.0     | 5.9    |
| 25     | 4.1     | 4.0    |
| 30     | 2.8     | 2.7    |
| 32     | 2.8     | 2.7    |
| 35     | 2.5     | 2.5    |
| 40     | 2.1     | 2.1    |

\* 50Hz

### Type D

At room temperature (single pole)

| In [A] | Z* [mΩ] | R [mΩ] |
|--------|---------|--------|
| 0.5    | 6400    | 6300   |
| 1      | 770     | 755    |
| 1.5    | 460     | 450    |
| 2      | 250     | 245    |
| 3      | 132     | 130    |
| 4      | 86      | 85     |
| 5      | 57      | 56     |
| 6      | 31      | 30     |
| 7      | 28      | 27     |
| 8      | 18      | 17.6   |
| 10     | 13.5    | 13.2   |
| 13     | 10.5    | 10.3   |
| 15     | 5.9     | 5.8    |
| 16     | 5.9     | 5.8    |
| 20     | 4.0     | 3.9    |
| 25     | 3.4     | 3.3    |
| 30     | 2.5     | 2.5    |
| 32     | 2.5     | 2.5    |
| 35     | 2.5     | 2.5    |
| 40     | 2.0     | 2.0    |

\* 50Hz

## Power Loss at $I_n$ FAZ-...-NA, -RT

### Type C

| In [A] | 1p     | 2p     | 3p     |
|--------|--------|--------|--------|
|        | P* [W] | P* [W] | P* [W] |
| 0.5    | 1.6    | 3.2    | 4.7    |
| 1      | 1.1    | 2.2    | 3.4    |
| 1.5    | 1.3    | 2.6    | 3.9    |
| 2      | 1.4    | 2.8    | 4.3    |
| 3      | 1.2    | 2.4    | 3.6    |
| 4      | 1.4    | 2.9    | 4.3    |
| 5      | 1.9    | 3.7    | 5.6    |
| 6      | 1.2    | 2.3    | 3.5    |
| 7      | 1.4    | 2.8    | 4.3    |
| 8      | 1.4    | 2.8    | 4.2    |
| 10     | 1.8    | 3.6    | 5.3    |
| 13     | 2.4    | 4.7    | 7.1    |
| 15     | 1.9    | 3.8    | 5.6    |
| 16     | 2.1    | 4.3    | 6.4    |
| 20     | 2.9    | 5.8    | 8.7    |
| 25     | 3.1    | 6.2    | 9.3    |
| 30     | 3.0    | 6.0    | 9.0    |
| 32     | 3.4    | 6.8    | 10.2   |
| 35     | 3.7    | 7.4    | 11.0   |
| 40     | 4.0    | 8.1    | 12.1   |

\*50Hz

### Type D

| In [A] | 1p     | 2p     | 3p     |
|--------|--------|--------|--------|
|        | P* [W] | P* [W] | P* [W] |
| 0.5    | 1.6    | 3.2    | 4.8    |
| 1      | 0.8    | 1.5    | 2.3    |
| 1.5    | 1.0    | 2.1    | 3.1    |
| 2      | 1.0    | 2.1    | 3.1    |
| 3      | 1.2    | 2.4    | 3.6    |
| 4      | 1.4    | 2.9    | 4.3    |
| 5      | 1.5    | 2.9    | 4.4    |
| 6      | 1.2    | 2.3    | 3.5    |
| 7      | 1.4    | 2.8    | 4.3    |
| 8      | 1.2    | 2.4    | 3.7    |
| 10     | 1.5    | 3.0    | 4.5    |
| 13     | 2.0    | 4.1    | 6.1    |
| 15     | 1.5    | 3.1    | 4.6    |
| 16     | 1.7    | 3.5    | 5.2    |
| 20     | 1.8    | 3.7    | 5.5    |
| 25     | 2.6    | 5.1    | 7.7    |
| 30     | 2.7    | 5.4    | 8.1    |
| 32     | 3.1    | 6.2    | 9.3    |
| 35     | 3.8    | 7.6    | 11.3   |
| 40     | 3.9    | 7.8    | 11.6   |

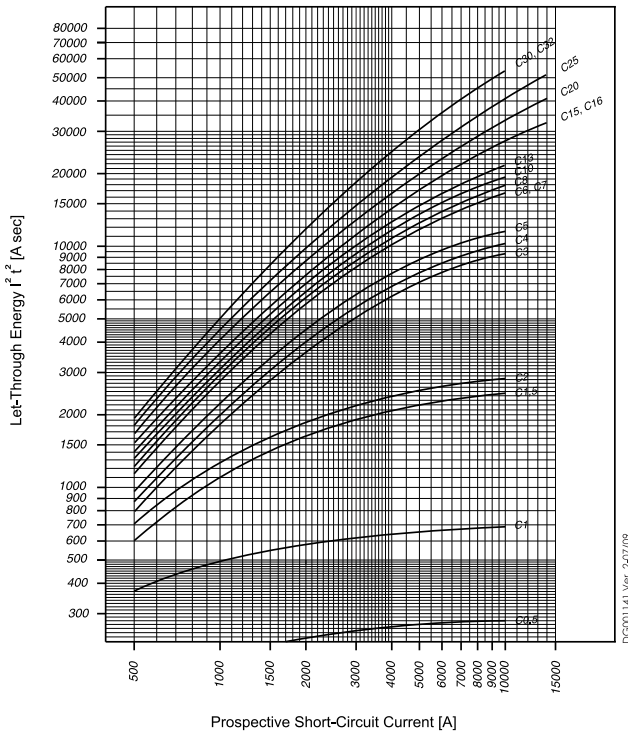
\*50Hz



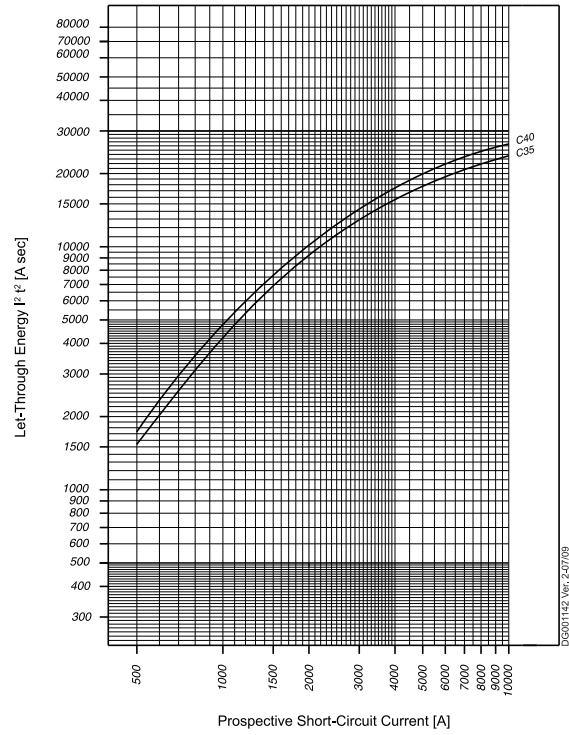
# FAZ-...-NA, -RT | Specifications

## Maximum Let-Through Energy FAZ-...-NA, -RT

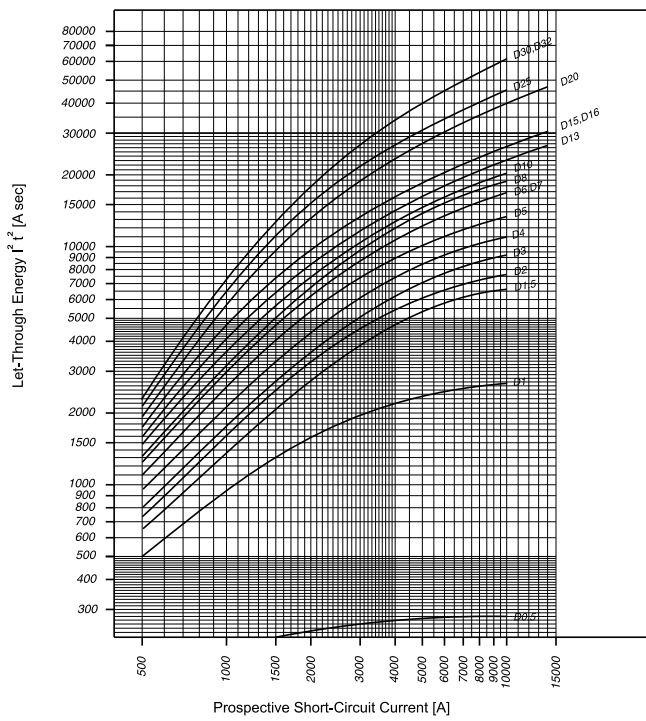
Type C (0.5 - 32 A), 277 V



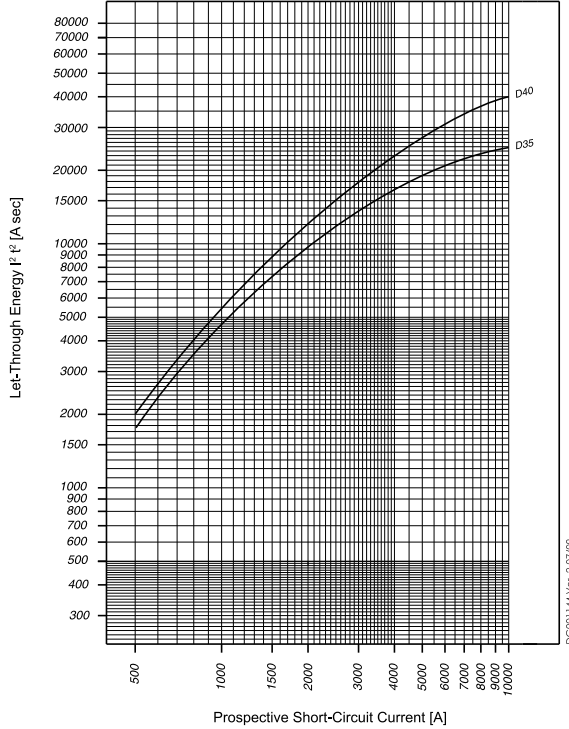
Type C (35 - 40 A), 240 V



Type D (0.5 - 32 A), 277 V



Type D (35 - 40 A), 240 V

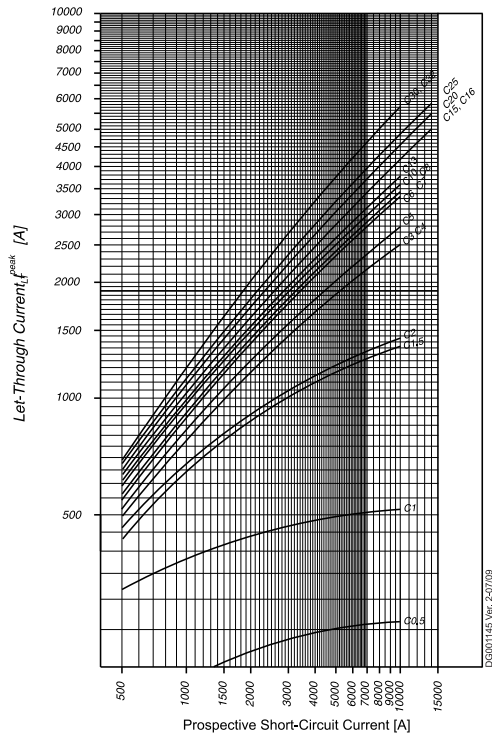




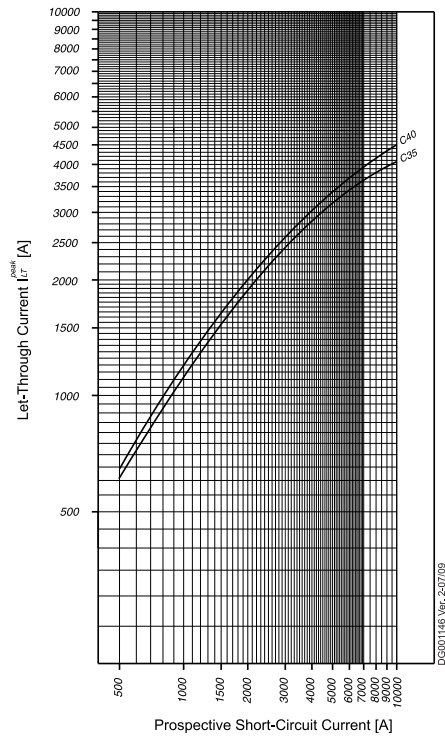
# FAZ-...-NA, -RT | Specifications

## Maximum Let-Through Current FAZ-...-NA, -RT

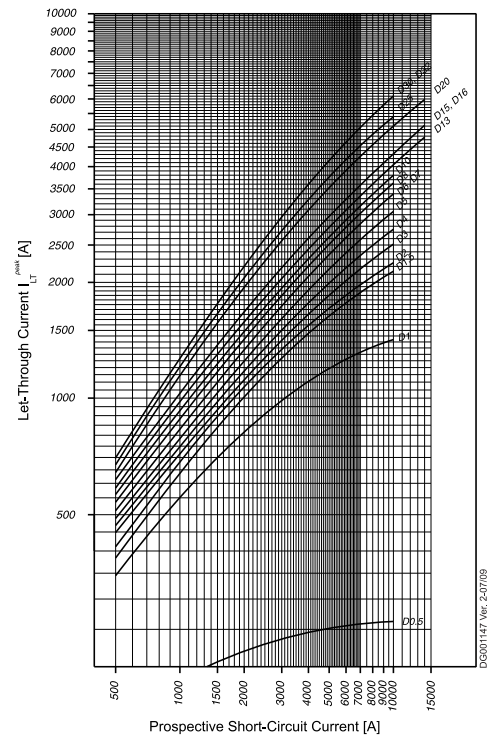
**Type C (0.5 - 32 A), 277 V**



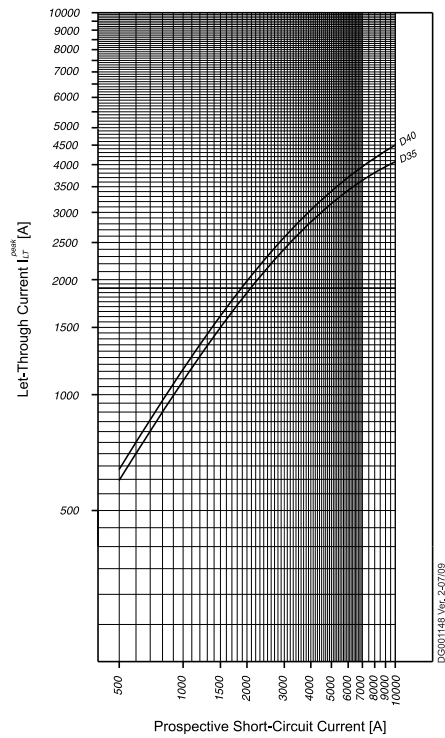
**Type C (35 - 40 A), 240 V**



**Type D (0.5 - 32 A), 277 V**






**Type D (35 - 40 A), 240 V**

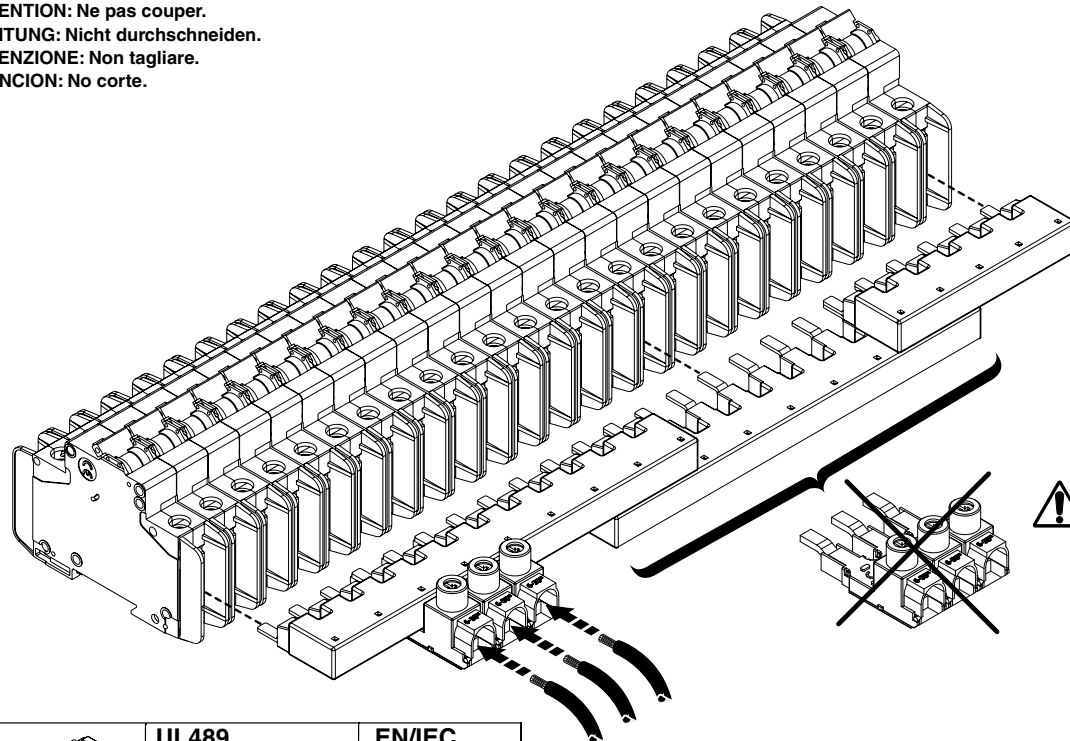


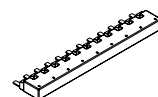
# FAZ-...-NA | Busbars

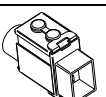

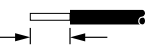
## Z-SV/UL-16 Busbars

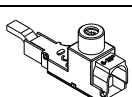

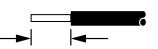
-  **ATTENTION: Maximum of 3 commoning links** allowed. Any combination of same pole configuration.
- ATTENTION: 3 liaisons communes autorisées au maximum.**  
Toute combinaison de configurations de polarité identiques.
- ACHTUNG: Maximal 3 Schienenblöcke.** Beliebige Kombination gleichpoliger Konfigurationen.
- ATTENZIONE: Sono consentiti al massimo 3 pettini di collegamento** in qualsiasi combinazione della stessa configurazione di poli.
- ATENCION: Se permite un máximo de 3 enlaces comunes.**  
Cualquier combinación del mismo tipo de configuración de polo

-   **ATTENTION: Do not cut.**
- ATTENTION: Ne pas couper.**
- ACHTUNG: Nicht durchschneiden.**
- ATTENZIONE: Non tagliare.**
- ATENCION: No corte.**



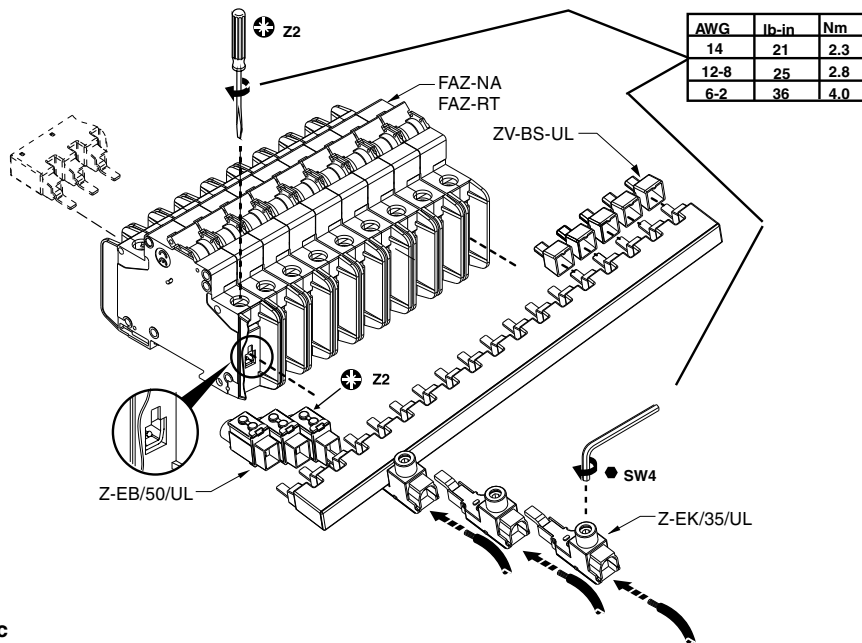
|   |                    |                       |
|---|--------------------|-----------------------|
|  | <b>UL489</b>       | <b>EN/IEC 60947-2</b> |
| $U_e$   | 480 V AC   96 V DC | 240/415 V AC          |
| $f$   | 50/60 Hz   -----   | 50/60 Hz              |
| $U_{imp}$   | -----              | 9.5 kV                |
| $I_e$   | 80 A @ 40°C        | 80 A @ 30°C           |
| Cross section   | -----              | 16 mm <sup>2</sup>    |

|   |                         |                               |
|---|-------------------------|-------------------------------|
|  | <b>UL489</b>            | <b>EN/IEC 60947-2</b>         |
| $U_e$   | 480 V AC   96 V DC      | 240/415V AC                   |
| $f$   | 50/60 Hz   -----        | 50/60 Hz                      |
| $U_{imp}$   | -----                   | 9.5 kV                        |
| $I_e$   | 115 A @ 40°C            | 160 A @ 30°C                  |
|  | #1-14 AWG<br>60/75°C Cu | 1.5– 50 mm <sup>2</sup><br>Cu |
|  | 0.56 in                 | 14 mm                         |

|  |                         |                               |
|--|-------------------------|-------------------------------|
|  | <b>UL489</b>            | <b>EN/IEC 60947-2</b>         |
| $U_e$  | 480 V AC   96 V DC      | 240/415V AC                   |
| $f$  | 50/60 Hz   -----        | 50/60 Hz                      |
| $U_{imp}$  | -----                   | 9.5 kV                        |
| $I_e$  | 80 A @ 40°C             | 80 A @ 30°C                   |
|  | #2-14 AWG<br>60/75°C Cu | 2.5– 35 mm <sup>2</sup><br>Cu |
|  | 0.56 in                 | 14 mm                         |

# FAZ-...-NA | Busbars

## Z-SV/UL-16 Busbars



### IEC/EN 60947-2 Icc

| Ue<br>HRC<br>315AgG<br>500VAC | Ue<br>VAC   | Z-SV/UL<br>Icc Amps |
|-------------------------------|-------------|---------------------|
| Z-SV/UL                       | 240/<br>415 | 15000               |

### UL SCCR

| Ue<br>Z-SV/UL    | FAZ-NA<br>FAZ-RT<br>In<br>Amps | Ue<br>VAC    | Z-SV/UL<br>SCCR RMS<br>Sym Amps |
|------------------|--------------------------------|--------------|---------------------------------|
| FAZ-NA<br>FAZ-RT | 0.5-32                         | 480Y/<br>277 | 10000                           |
|                  | 35-40                          | 240          | 10000                           |




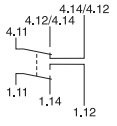

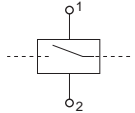
| Article No. |                      |    |   |   |
|-------------|----------------------|----|---|---|
| 104892      | Z-SV/UL-16/1P-1TE/6  | 6  | - | - |
| 104893      | Z-SV/UL-16/1P-1TE/12 | 12 | - | - |
| 104894      | Z-SV/UL-16/1P-1TE/18 | 18 | - | - |
| 104895      | Z-SV/UL-16/2P-2TE/6  | -  | 3 | - |
| 104896      | Z-SV/UL-16/2P-2TE/12 | -  | 6 | - |
| 104897      | Z-SV/UL-16/2P-2TE/18 | -  | 9 | - |
| 104898      | Z-SV/UL-16/3P-3TE/6  | -  | - | 2 |
| 104899      | Z-SV/UL-16/3P-3TE/12 | -  | - | 4 |
| 104900      | Z-SV/UL-16/3P-3TE/18 | -  | - | 6 |
| 104901      | Z-EK/35/UL           | -  | - | - |
| 104902      | Z-EB/50/UL           | -  | - | - |
| 104904      | ZV-BS-UL             | -  | - | - |





# FAZ-...-NA, -RT | Accessories

## Auxiliary Contacts and Voltage Trips

|  | Circuit Diagram  | Description  | Rated Operational Voltage  | Type Designation                                       | Article No.                 | Units per package |
|--|--|--|--|--|-----------------------------|-------------------|
|  <p>SG60711</p>   |  <p>Same Polarity</p> | <p><b>Auxiliary contact</b></p> <ul style="list-style-type: none"> <li>• Design according to IEC/EN 60947-5-1, IEC/EN 62019</li> <li>• Field installable</li> <li>• The specified minimum voltages are per contact—take into account particularly in case of series connection</li> <li>• Self-cleaning contacts</li> <li>• Contact material and design particularly suitable for extra low voltage</li> <li>• Tripping signal contact transmits message of electric tripping, not mechanical switch-off</li> <li>• Test key for contact function “electrical tripping”</li> <li>• Will allow for &gt; 480Y/277 Vac rating</li> </ul>  | 250 Vac  | Z-IHK-NA   | 113895                      | 1                 |
|  <p>SG61011</p>  |                      | <p><b>Two-pole auxiliary contact/trip indicating contact *)</b></p> <ul style="list-style-type: none"> <li>• Design according to IEC/EN 60947-5-1, IEC/EN 62019</li> <li>• Field installable</li> <li>• The specified minimum voltages are per contact—take into account particularly in case of series connection</li> <li>• Self-cleaning contacts</li> <li>• Contact material and design particularly suitable for extra low voltage</li> <li>• Tripping signal contact transmits message of electric tripping, not mechanical switch-off</li> <li>• Test key for contact function “electrical tripping”</li> <li>• The function of one of the two change-over contacts can be switched from “auxiliary switch” to “tripping signal switch”</li> </ul> <p>*) Voltage of FAZ-NA circuit breaker is limited to 300V with this auxiliary contact installed</p> | 250 Vac  | Z-NHK  | 248434                      | 1                 |
|  <p>SG13511</p> |                     | <p><b>Shunt Trip</b></p> <ul style="list-style-type: none"> <li>• Remote release for subsequent mounting onto FAZ-NA</li> <li>• Additional installation of standard auxiliary switch is possible</li> <li>• Position indicator red–green</li> </ul>  | <p>12–110 Vac<br/>12–60 Vdc</p> <p>110–415 Vac<br/>110–230 Vdc</p> | <p>FAZ-XAA-NA12-110VAC</p> <p>FAZ-XAA-NA110-415VAC</p> | <p>102037</p> <p>102036</p> | <p>1</p> <p>1</p> |
|  |  | <p><b>Padlock Hasp (for all FAZ)</b></p> <ul style="list-style-type: none"> <li>• Prevents reactivation of the device during maintenance</li> <li>• Holds one padlock</li> </ul>   |  | IS/SPE-1TE   | 101911                      | 1                 |





# FAZ-...-NA, -RT | Accessories

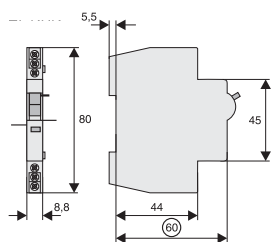
## Specifications

### Technical Data

|  | Z-NHK  | Z-IHK-NA   |
|--|--|--|
| <b>Electrical</b>                                      |  |  |
| Contact function                                       | 2CO  | 1NO + 1NC  |
| Rated voltage  | 230V   | 250V   |
| Rated current  | 2A   | 6A   |
| Rated thermal current $I_{th}$                         | 2A   | 6A   |
| Utilization category AC13                              |  |  |
| Rated operational current $I_e$                        | 3A/250 Vac   | 3A/250 Vac   |
| Utilization category AC15                              |  |  |
| Rated operational current $I_e$                        | 2A/250 Vac   | 2A/250 Vac   |
| Utilization category DC12                              |  |  |
| Rated operational current $I_e$                        | 0.5A/110 Vdc   | 0.5A/110 Vdc<br>0.25A/220 Vdc                            |
| Rated insulation voltage $U_i$                         | 250 Vac  | 250 Vac  |
| Minimum operational voltage per contact $U_{min}$      | 5 Vdc  | 5 Vdc  |
| Minimum operational current $I_{min}$                  | 10 mA DC   | 10 mA AC/DC  |
| Rated peak withstand voltage $U_{imp}$ (1.2/50 $\mu$ ) | 2.5 kV   | 4 kV   |
| Conditional short circuit current $I_k$                |  |  |
| with Back-Up Fuse 6A                                   | 1 kA   | 1 kA   |
| Max. back-up fuse, overload and short circuit          | 6A gL  | —  |
| <b>Mechanical</b>                                      |  |  |
| Tripping indicator "electrical tripping"               | Blue/white   | —  |
| Frame size   | 45 mm  | 45 mm  |
| Device height  | 80 mm  | 80 mm  |
| Device width   | 8.8 mm (0.5MU)   | 8.8 mm (0.5MU)   |
| Mounting   | Onto switching device                                    | —  |
| Degree of protection, built-in                         | IP40   | IP40   |
| Terminal protection                                    | Finger and hand touch safe according to BGV A3, ÖVE-EN 6 | Finger and hand touch safe according to BGV A3, ÖVE-EN 6 |
| Terminals  | Lift terminals   | Lift terminals   |
| Terminal capacity                                      | 20–14 AWG  | 0.5–2.5 mm <sup>2</sup>                                  |
| Terminal screws  | M3 (Pozidrive Z0)  | M3 (Pozidrive Z0)  |
| Tightening torque of terminal screws                   | 7 lb-in  | max. 1.2 Nm  |

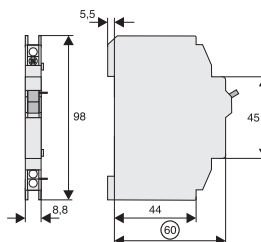
### Two-pole auxiliary contact/trip indicating contact

Z-NHK



### Auxiliary contact

Z-IHK-NA





## FAZ-...-NA, -RT | Accessories

### Technical Data

|                                      | <b>FAZ-XAA-NA12-110VAC</b>                                  | <b>FAZ-XAA-NA110-415VAC</b>                                 |
|--------------------------------------|---|---|
| <b>Electrical</b>                    |   |   |
| Can be mounted onto                  | FAZ-NA / FAZ-NA-DC / FAZ-RT                                 | FAZ-NA / FAZ-NA-DC / FAZ-RT                                 |
| Operational voltage range            | 12–110 Vac<br>12–60 Vdc                                     | 110–415 Vac<br>110–230 Vdc                                  |
| Frequency                            | 50/60 Hz  | 50/60 Hz  |
| <b>Mechanical</b>                    |   |   |
| Frame size                           | 45 mm   | 45 mm   |
| Device height                        | 105 mm  | 105 mm  |
| Device width                         | 17.5 mm   | 17.5 mm   |
| Mounting                             | Quick fastening with two lock-in positions on EN 50022      |   |
| Degree of protection, built-in       | IP40  | IP40  |
| Terminal protection                  | Finger and hand touch safe<br>according to BGV A3, ÖVE-EN 6 | Finger and hand touch safe<br>according to BGV A3, ÖVE-EN 6 |
| Terminals                            | Open mouthed/lift   | Open mouthed/lift   |
| Terminal capacity, one and two wires | 18–10 AWG   | 18–10 AWG   |



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