



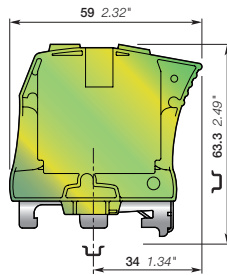
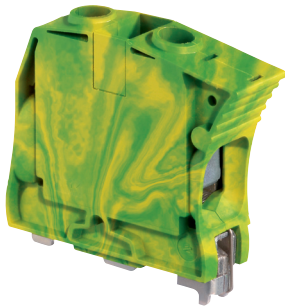
## ZS35-PE Screw Clamp Terminal Block Ground



**35 mm<sup>2</sup>**  
0 AWG

16 mm 0.630 in Spacing

### Features and Benefits



Reliable electrical and mechanical contact with the rail that exceeds the requirements of IEC 60947-7-2 terminal block standard.

3D CAD outline drawings available on "Control Product 3D" portal

| Ordering Details | Type    | Order Code         | EAN Code      | Pack <sup>(ing)</sup> | Weight g (1 pce) |
|------------------|---------|--------------------|---------------|-----------------------|------------------|
| Green-Yellow     | ZS35-PE | 1SNK 516 150 R0000 | 3472595161508 | 20                    | 81.80            |

| Declarations and Certificates |                         | Document Part Number |
|-------------------------------|-------------------------|----------------------|
| CE                            | UE Directive            | 1SND 225 094 C1003   |
| IEC CB                        | Third Party Certificate | 1SND 161 027 A0200   |
| RoHS                          | RoHS                    | 1SND 230 491 F0203   |
|                               |                         |                      |
|                               |                         |                      |
|                               |                         |                      |
|                               |                         |                      |
|                               |                         |                      |
|                               |                         |                      |
|                               |                         |                      |
|                               |                         |                      |
|                               |                         |                      |
|                               |                         |                      |
| Atex Declaration              | Atex Declaration        | 1SND 225 085 C1003   |

| Explosive Atmosphere: ATEX Classification |                          |
|---|--------------------------|
| Group Category                            | Protection Method        |
| IM 2                                      | Ex e: increased security |
| II 2GD *                                  |                          |

\* in the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure II 2D

## General Information

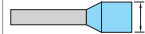
The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.

|   |   |                                    |  |                                       |  |
|---|---|------------------------------------|--|---------------------------------------|--|
| Protection                                |   | <b>IP 20</b>                       | <i>NEMA 1</i>                            |                                       |  |
| Rail                                      |  | <b>DIN3-TH35</b>                   |  |                                       |  |
| Wire stripping length                     |  | <b>17 mm</b>                       | <i>0.669 in</i>                          |                                       |  |
| Operating tool                            |  | Screw clamp                        |  | Screw rail contact<br>(Maximum value) |  |
|   |   | <b>Flat screwdriver</b>            |  |                                       |  |
|   |   | <b>6.5 mm</b>                      | <i>0.256 in</i>                          | <b>5.5 mm</b>                         | <i>0.217 in</i>                          |
| Torque                                    |  | <b>2.65 Nm</b><br><b>± 0.15 Nm</b> | <i>23.5 lb.in</i><br><i>± 1.33 lb.in</i> | <b>1.6 Nm</b><br><b>± 0.15 Nm</b>     | <i>14.2 lb.in</i><br><i>± 1.33 lb.in</i> |
| Mechanical endurance of disconnect system |   |                                    |  |                                       |  |

## Material Specifications

|                     |                                  |                    |
|---------------------|----------------------------------|--------------------|
| Insulating material |                                  | <b>Polyamide</b>   |
| IRC                 |                                  | <b>600 V</b>       |
| Flammability        |                                  | UL94               |
|                     |                                  | <b>V0</b>          |
|                     |                                  | <b>NF F 16 101</b> |
|                     | Needle flame test IEC 60695-11-5 | <b>I2F2</b>        |
|                     |                                  | <b>Compliant</b>   |

## Connecting capacity per clamp

|                                      |   |                            |                 |                 |
|--------------------------------------|---|----------------------------|-----------------|-----------------|
| 1 Rigid conductor                    |   | <b>6-35 mm<sup>2</sup></b> |                 | <i>10-0 AWG</i> |
| 1 Flexible conductor without ferrule |   | <b>6-35 mm<sup>2</sup></b> |                 | <i>10-0 AWG</i> |
| 1 Flexible conductor with ferrule    |   |                            |                 |                 |
| Ferrule maximum outer diameter       |  | <b>14 mm</b>               | <i>0.551 in</i> |                 |

## Multi Connecting capacity per clamp

|   |  |  |  |  |
|---|--|--|--|--|
| 2 Rigid conductors                      |  |  |  |  |
| 2 Flexible conductors without ferrule   |  |  |  |  |
| 2 Flexible conductors with twin ferrule |  |  |  |  |

Don't mix **solid and flexible** conductors **in the same clamp**

Don't mix **solid or flexible** conductors of different sizes **in the same clamp**

The "Connecting capacity with ferrule " data is guaranteed with ABB crimping tool PS-3

## Cross section

|                       |                          |                          |                          |              |
|-----------------------|--------------------------|--------------------------|--------------------------|--------------|
| Rated cross section   |                          | <b>35 mm<sup>2</sup></b> |                          | <i>0 AWG</i> |
| Maximum Cross section | <b>Manufacturer data</b> | <b>35 mm<sup>2</sup></b> | <i>Manufacturer data</i> | <i>0 AWG</i> |

Gauge **A9 / 10 mm / 0.394 in / IEC 60947-7-1**

## Electrical characteristics

### Current

|   |                                |                   |                          |
|---|--------------------------------|-------------------|--------------------------|
| Rated current   |                                | IEC 60947-7-1     |                          |
|   | Field and factory wiring Cat.2 | UL 1059           |                          |
|   | Factory wiring Cat. 1          | UL 1059           |                          |
|   |                                | CSA-C-22.2 n° 158 |                          |
| Rated short-time withstand current 1 s (I <sub>cw</sub> )                       |                                |                   | <b>4200 A</b>            |
| Short-time withstand current  | 0.5 s                          | Manufacturer data |                          |
|   | 5 s                            | Manufacturer data |                          |
|   | 10 s                           | Manufacturer data |                          |
|   | 30 s                           | Manufacturer data |                          |
|   | 1 mn                           | Manufacturer data |                          |
| Rated short circuit withstand   |                                | CSA-C-22.2 n° 158 |                          |
| Max. current (45° temperature increase) / Max. cross section (mm <sup>2</sup> ) |                                | Manufacturer data | <b>35 mm<sup>2</sup></b> |
| Maximum short circuit current (1s)  |                                | Manufacturer data | <b>4200 A</b>            |

## Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR UL 1059

With the following configurations:

|                               |  |
|-------------------------------|--|
| Maximum voltage               |  |
| Suitable conductor wire range |  |
| Fuse rating                   |  |
| Fuse designation              |  |
| Fuse manufacturer name        |  |
| Fuse type                     |  |
| Short circuit current         |  |

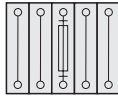
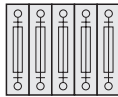
### Voltage

|                                 |                   |               |
|---------------------------------|-------------------|---------------|
| Rated voltage                   | IEC 60947-1       |               |
| Rated voltage                   | UL 1059           |               |
| Use Group                       | UL 1059           | <b>C</b>      |
| Rated voltage                   | CSA-C-22.2 n° 158 |               |
| Rated voltage Ex e              | IEC/EN 60079-11   |               |
| Rated impulse withstand voltage |                   | <b>8000 V</b> |
| Dielectric test voltage         |                   | <b>2200 V</b> |
| Pollution degree                | IEC 60947-1       | <b>3</b>      |
| Overtoltage category            | IEC 60947-1       | <b>III</b>    |

### Dissipated power

|   |     |  |
|---|-----|--|
| Maximum dissipated power at rated current | IEC |  |
|---|-----|--|

### Rated power dissipation at an ambient temperature of 23 °C - IEC 60947-7-3

|   |  |  |
|---|--|--|
| Overload and short-circuit protection<br>Separate arrangement |   |  |
| Exclusive short-circuit protection<br>Separate arrangement    | 1 fuse and 4 feed-through blocks   |  |
| Overload and short-circuit protection<br>Compound arrangement |  |  |
| Exclusive short-circuit protection<br>Compound arrangement    | 5 fuse blocks  |  |

### Temperature range

|                             |            |                    |                    |            |
|-----------------------------|------------|--------------------|--------------------|------------|
| Ambient temperature min/max | Storage    | <b>-55 +110 °C</b> | -67 +230 F         |            |
|                             | Installing | <b>-5 +40 °C</b>   | -23 +104 F         |            |
|                             | Service    | IEC 60068-2-1      | <b>-55 +110 °C</b> | -67 +230 F |
|                             |            | EN 60079-7         | <b>-55 +85 °C</b>  |            |

Current Derating curve for continuous service temperature

## Environmental Characteristics

### Additional climatic tests

|                          |            |   |                  |               |
|--------------------------|------------|---|------------------|---------------|
| Dry heat                 | Conditions | IEC 60068-2-2                                   | <b>Compliant</b> |               |
|                          |            | Temperature                                     | <b>+100 °C</b>   |               |
|                          |            | Duration of test                                | <b>96 h</b>      |               |
| Cyclic damp heat         | Conditions | IEC 60068-2-30                                  | <b>Compliant</b> |               |
|                          |            | Temperature                                     | <b>+55 °C</b>    |               |
|                          |            | Number of cycles                                | <b>2</b>         |               |
| Cold                     | Conditions | IEC 60068-2-1                                   | <b>Compliant</b> |               |
|                          |            | Temperature                                     | <b>-40 °C</b>    |               |
|                          |            | Duration of test                                | <b>96 h</b>      |               |
| Z/ABDM climatic sequence | Conditions | IEC 60068-2-61                                  | <b>Compliant</b> |               |
|                          |            | Dry heat Duration of test / Temperature         | <b>16 h</b>      | <b>+85 °C</b> |
|                          |            | Cyclic damp heat Number of cycles / Temperature | <b>1</b>         | <b>+55 °C</b> |
|                          |            | Cold Duration of test / Temperature             | <b>2 h</b>       | <b>-25 °C</b> |
|                          |            |   |                  |               |

### Corrosion

|                                  |            |                           |                           |  |
|----------------------------------|------------|---------------------------|---------------------------|--|
| Salt mist                        | Conditions | IEC 60068-2-11            | <b>Compliant</b>          |  |
|                                  |            | Duration of test          | <b>96 h</b>               |  |
|                                  |            | Concentration             | <b>5 %</b>                |  |
| SO <sub>2</sub>                  | Conditions | ISO 6988                  | <b>Compliant</b>          |  |
|                                  |            | Duration of test          | <b>48 h</b>               |  |
|                                  |            | Concentration             | <b>0.2 dm<sup>3</sup></b> |  |
| Sulfur dioxide                   | Conditions | IEC 60068-2-42            |                           |  |
|                                  |            | Duration of test          |                           |  |
| Hydrogen sulfur                  | Conditions | IEC 60068-2-43            |                           |  |
|                                  |            | Duration of test          |                           |  |
| Flowing mixed gas corrosion test | Conditions | IEC 60068-2-60            |                           |  |
|                                  |            | Number of the test method |                           |  |
|                                  |            | Duration of test          |                           |  |

### Vibrations

|   |  |                  |                           |  |
|---|--|------------------|---------------------------|--|
| Vibrations                              | Conditions                               | IEC 60068-2-6    | <b>Compliant</b>          |  |
|   |  | Frequency range  | <b>10-55 Hz</b>           |  |
|   |  | Number of cycles | <b>10</b>                 |  |
|   |  | Amplitude        |                           |  |
|   |  | Acceleration     | <b>10 m/s<sup>2</sup></b> |  |
| Random vibrations and climatic sequence | Conditions                               | IEC 60068-2-64   |                           |  |
|   |  | Duration of test |                           |  |
|   |  | Frequency range  |                           |  |
|   |  | Acceleration     |                           |  |
|   | Climatic cycles                          |                  |                           |  |
|   | Step 1 -> Temperature / Duration of test |                  |                           |  |
|   | Step 2 -> Temperature / Duration of test |                  |                           |  |
|   | Temperature variation per minute         |                  |                           |  |

## ZS35-PE Terminal Block Accessories Compatibility

| Description              | Type           | Order Code                | Pack <sup>(ing)</sup><br>pieces | Weight<br>g (1 pce) | Technical Datasheet<br>PDF |
|--------------------------|----------------|---------------------------|---------------------------------|---------------------|----------------------------|
| 1 End Stops              | <b>BAZH1</b>   | <b>1SNK 900 102 R0000</b> | 20                              | 23.90               | <b>1SNK 160 026 D0201</b>  |
| 2 Circuit Separators     | <b>CS-R1</b>   | <b>1SNK 900 103 R0000</b> | 20                              | 5.20                | <b>1SNK 160 018 D0201</b>  |
| 3 Protecting Covers      | <b>CO</b>      | <b>1SNK 900 604 R0000</b> | 1                               | 300.00              | <b>1SNK 160 020 D0201</b>  |
| 4 Protecting Cover Kits  | <b>KCO</b>     | <b>1SNK 900 624 R0000</b> | 1                               | 47,8                | <b>1SNK 160 028 D0201</b>  |
| 5 Terminal Block Markers | <b>MC812</b>   | <b>1SNK 160 000 R0000</b> | 22                              | 0.09                | <b>1SNK 160 009 D0201</b>  |
|                          | <b>UMH</b>     | <b>1SNK 900 611 R0000</b> | 10                              | 0.20                | <b>1SNK 160 001 D0201</b>  |
|                          | <b>PROCAP8</b> | <b>1SNK 900 613 R0000</b> | 20                              | 1.00                | <b>1SNK 160 013 D0201</b>  |
|                          | <b>SAT8</b>    | <b>1SNK 900 616 R0000</b> | 5                               | 6.00                | <b>1SNK 160 013 D0201</b>  |

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