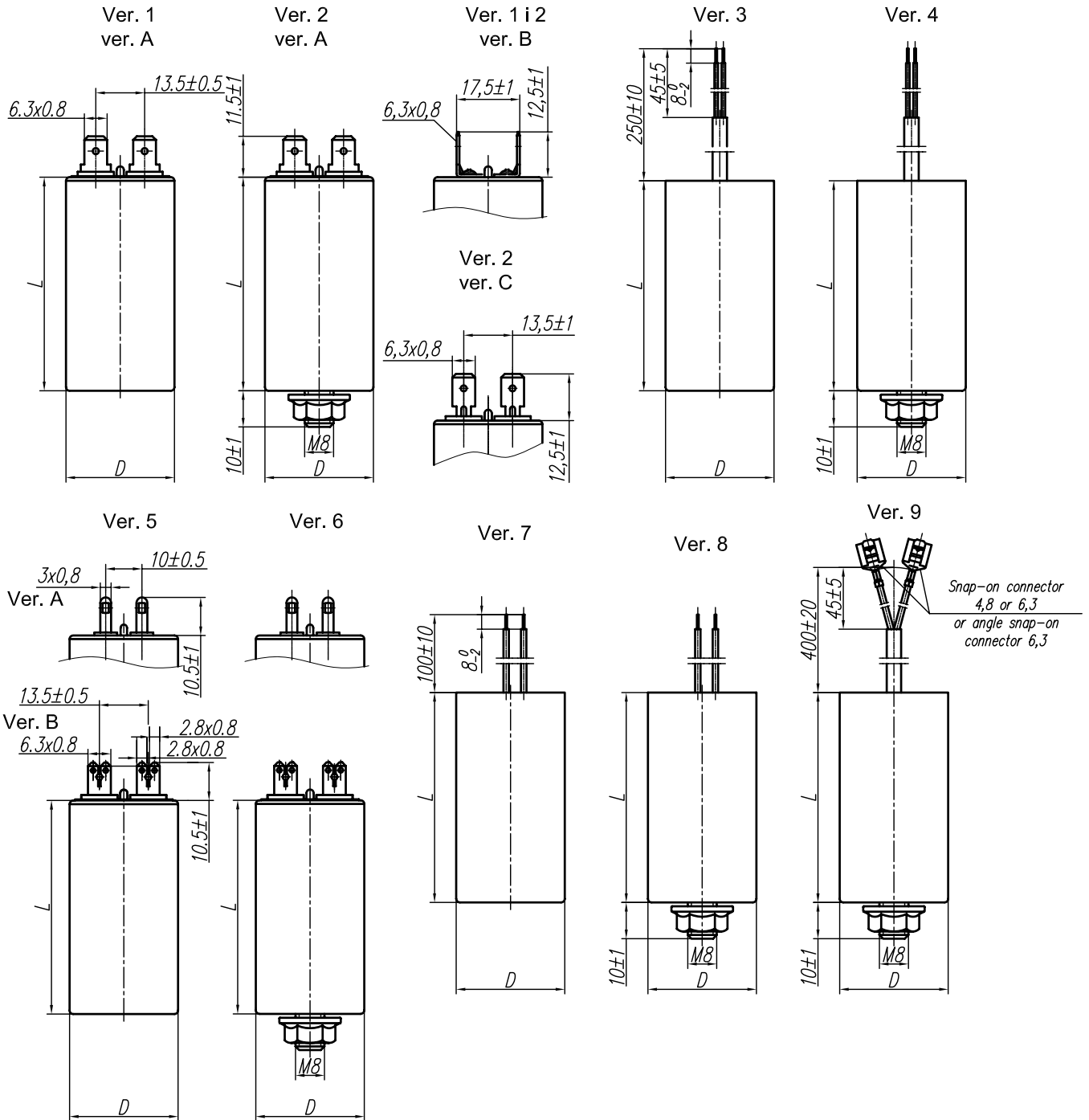


## AC METALLIZED POLYPROPYLENE FILM CAPACITORS FOR MOTOR APPLICATIONS



## AC METALLIZED POLYPROPYLENE FILM CAPACITORS FOR MOTOR APPLICATIONS

- Version 1 and 2 - capacitor with fast-on terminals 6,3x0,8 in versions A,B,C according to PN-EN 61210.  
Version 3 and 4 - capacitor with two-core cable lead according to PN-91/E-90103.  
Version 5 and 6 - capacitor versions:  
    A - with soldering terminals 3x0,8  
    B - with tabs 2x 2,8x0,8 (6,3x0,8)  
Version 7 and 8 - capacitor with two single-core cable leads.  
Version 9 - 2; 2,5; 3; 4; 5µF capacitors with ±10% tolerance and H05V2V2-F 300/500V 2x0,75mm<sup>2</sup>  
black insulated leads with VDE certificate with 4,8-075U T85 or 6,3-075U T85 snap-on connector or  
angle snap-on connector FH 6,3x0,8-MS (upon prior agreement).

### NOTE:

1. Misalignment of terminals in relation to the capacitor axis may occur in versions 3; 4; 7; 8 and 9;  
other lengths of leads are available upon prior agreement.

### APPLICATION:

The MKSP-5P capacitors are intended for use in a.c. circuits with the frequency of 50Hz. They are mainly used in single-phase electric motors as running capacitors. The capacitors have plastic case.

The MKSP-5P capacitors can be used with a d.c. voltage not exceeding the following value:  $V_{dc} = \sqrt{2} * U_n$

Application class (acc. to EN 60252-1 and VDE 0560 part 8):

B - expected life 10000h (HSFNT\*)

C - expected life 3000h (HSFPU\*)

D - expected life 1000h (HSFQV\*)

\* - previous symbols

### TECHNICAL DATA:

- |                             |                               |
|-----------------------------|-------------------------------|
| - Climatic category:        | - 25/070/21,                  |
| - Dissipation factor:       | - ≤0.003 at f = 50Hz,         |
| - Dielectric strength       |                               |
| between terminals:          | - 2UR / 50Hz- 60s,            |
| between terminals and case: | - 2000V / 50Hz - 60s,         |
| - Standards:                | - EN 60252-1, VDE 0560 part 8 |
| - Specifications:           | - WT-96/MIFLEX/MKSP-5P,       |
| - Approval mark:            | - VDE.                        |

This product fulfills the requirements of the RoHS Directive (2011/65/UE).



## AC METALLIZED POLYPROPYLENE FILM CAPACITORS FOR MOTOR APPLICATIONS

| Rated capacitance<br>C <sub>N</sub> | Capacitance tolerance | Rated voltage, class | Dimensions       |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               | VDE approval for voltage and class |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
|-------------------------------------|-----------------------|----------------------|------------------|-------------------------------|-----------------|-------------------------------|-----------------|-------------------------------|-----------------|-------------------------------|-----------------|-------------------------------|-----------------|-------------------------------|-----------------|-------------------------------|------------------------------------|----|-----|----|-----|---|---|----|-----|----|-----|----|-----|----|-----|---|---|
|                                     |                       |                      | Ver. 1A,2A,5A,6A |                               | Ver. 1B, 2B     |                               | Ver. 2C         |                               | Ver. 5B,6B      |                               | Ver. 3,7        |                               | Ver. 4,8        |                               | Ver. 9          |                               |                                    |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
|                                     |                       |                      | D <sup>+1</sup>  | L <sup>+3</sup> <sub>-2</sub> | D <sup>+1</sup> | L <sup>+3</sup> <sub>-2</sub> | D <sup>+1</sup> | L <sup>+3</sup> <sub>-2</sub> | D <sup>+1</sup> | L <sup>+3</sup> <sub>-2</sub> | D <sup>+1</sup> | L <sup>+3</sup> <sub>-2</sub> | D <sup>+1</sup> | L <sup>+3</sup> <sub>-2</sub> | D <sup>+1</sup> | L <sup>+3</sup> <sub>-2</sub> |                                    |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| μF                                  | %                     | V~                   | mm               | mm                            | mm              | mm                            | mm              | mm                            | mm              | mm                            | mm              | mm                            | mm              | mm                            | mm              | mm                            |                                    |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 0,68                                | ±10%                  | 450V~B<br>500V~D     | -                | -                             | -               | -                             | -               | -                             | -               | -                             | -               | 20                            | 42              | -                             | -               | -                             | -                                  |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 1                                   | ±5%<br>±10%           |                      | -                | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | 58              | -                             | -                                  |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 1,5                                 |                       |                      | -                | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | -                                  |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 2                                   |                       |                      | -                | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | -                                  |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 2,5                                 |                       |                      | 25               | 58                            | 25              | 58                            | -               | -                             | 25              | 58                            | 25              | 51                            | 25              | 51                            | 25              | 58                            | 25                                 | 58 |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 3                                   |                       |                      | -                |                               | -               |                               | -               | -                             |                 |                               | -               | -                             | -               |                               | -               | -                             |                                    | -  | -   | -  | -   |   |   |    |     |    |     |    |     |    |     |   |   |
| 3,5                                 |                       |                      | -                |                               | -               |                               | -               | -                             |                 |                               | -               | -                             | -               |                               | -               | -                             |                                    | -  | -   | -  | -   | - | - |    |     |    |     |    |     |    |     |   |   |
| 4                                   |                       |                      | -                |                               | -               |                               | -               | -                             |                 |                               | -               | -                             | -               |                               | -               | -                             |                                    | -  | -   | -  | -   | - | - |    |     |    |     |    |     |    |     |   |   |
| 4                                   |                       |                      | -                |                               | -               |                               | -               | -                             |                 |                               | -               | -                             | -               |                               | -               | -                             |                                    | -  | -   | -  | -   | - | - |    |     |    |     |    |     |    |     |   |   |
| 5                                   |                       |                      | -                | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | -                                  | -  |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 6                                   |                       |                      | 30               | 73                            | 30              | 73                            | -               | -                             | 30              | 73                            | 28              | 51                            | 30              | 53                            | 30              | 83                            | 30                                 | 83 |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 7                                   |                       |                      | -                |                               | -               |                               | -               | -                             |                 |                               | -               | -                             |                 | -                             | -               | -                             |                                    | -  | -   | -  | -   | - | - |    |     |    |     |    |     |    |     |   |   |
| 7,5                                 |                       |                      | -                |                               | -               |                               | -               | -                             |                 |                               | -               | -                             |                 | -                             | -               | -                             |                                    | -  | -   | -  | -   | - | - |    |     |    |     |    |     |    |     |   |   |
| 8                                   |                       |                      | -                |                               | -               |                               | -               | -                             |                 |                               | -               | -                             |                 | -                             | -               | -                             |                                    | -  | -   | -  | -   | - | - |    |     |    |     |    |     |    |     |   |   |
| 8                                   |                       |                      | 35               | 65                            | 35              | 65                            | -               | -                             | 35              | 65                            | 35              | 65                            | 35              | 65                            | 35              | 65                            | 450V~ C VDE<br>500V~ D VDE         | 65 |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 9                                   |                       |                      | -                | -                             | -               | -                             | -               | -                             | -               | -                             | 35              | 55                            | 35              | 55                            | 35              | 55                            |                                    | -  | -   |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 9                                   | 35                    | 73                   | 35               | 73                            | -               | -                             | 35              | 73                            | 30              | 78                            | 30              | 78                            | 30              | 78                            | -               | -                             |                                    |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 10                                  | 35                    | 65                   | 35               | 65                            | -               | -                             | 35              | 65                            | 35              | 65                            | 35              | 65                            | 35              | 65                            | -               | -                             |                                    |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 10                                  | 35                    | 73                   | 35               | 73                            | -               | -                             | 35              | 73                            | 30              | 78                            | 30              | 78                            | 30              | 78                            | -               | -                             |                                    |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 10                                  | -                     | -                    | -                | -                             | -               | -                             | -               | -                             | 40              | 55                            | 40              | 55                            | 40              | 55                            | -               | -                             |                                    |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 12                                  | 35                    | 65                   | 35               | 65                            | -               | -                             | 35              | 65                            | 35              | 65                            | 35              | 65                            | 35              | 65                            | -               | -                             |                                    |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 12                                  | -                     | 83                   |                  | 83                            | -               | -                             |                 | 83                            |                 | 83                            |                 | 83                            |                 | 83                            | 83              | 83                            |                                    | 83 | 83  | -  | -   |   |   |    |     |    |     |    |     |    |     |   |   |
| 12                                  | -                     | 65                   |                  | 65                            | -               | -                             |                 | 65                            |                 | 65                            |                 | 65                            |                 | 65                            | 65              | 65                            |                                    | 65 | 65  | 65 | -   | - |   |    |     |    |     |    |     |    |     |   |   |
| 14                                  | 35                    | 83                   | 35               | 83                            | -               | -                             | 35              | 83                            | 35              | 83                            | 35              | 83                            | 35              | 83                            | -               | -                             |                                    |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 14                                  | -                     | -                    |                  | -                             | -               | -                             |                 | -                             |                 | -                             |                 | -                             |                 | -                             | -               | -                             | -                                  | -  | -   | -  |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 16                                  | ±10%                  | 35                   | 83               | 35                            | 83              | -                             | -               | -                             | -               | 35                            | 78              | 35                            | 83              | 35                            | 83              | -                             | -                                  |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 16                                  | ±5%                   | 450V~ B              | 40               | 83                            | 40              | 83                            | 40              | 83                            | 40              | 83                            | 40              | 83                            | 40              | 83                            | 40              | 83                            |                                    |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 18                                  | -                     |                      |                  |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               | -                                  | -  | -   | -  | -   | - | - | -  | -   | -  | -   | -  | -   | -  |     |   |   |
| 20                                  | -                     |                      |                  |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               | -                                  | -  | -   | -  | -   | - | - | -  | -   | -  | -   | -  | -   | -  | -   |   |   |
| 22                                  | -                     |                      |                  |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               | -                                  | -  | -   | -  | -   | - | - | -  | -   | -  | -   | -  | -   | -  | -   |   |   |
| 25                                  | -                     |                      |                  |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               | -                                  | -  | -   | -  | -   | - | - | -  | -   | -  | -   | -  | -   | -  | -   |   |   |
| 30                                  | ±10%                  | 45                   | 83               | 45                            | 83              | -                             | -               | 45                            | 83              | 45                            | 78              | 45                            | 78              | 45                            | 78              | -                             | -                                  |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 30                                  | ±5%                   | 50                   |                  | 50                            |                 | -                             | -               | 50                            |                 | 50                            | 50              | 50                            | 50              | 50                            | 50              | 50                            | 50                                 | -  | -   |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 32                                  | ±10%<br>±5%           | 450V~ B              | 50               | 50                            | 50              | 50                            | 50              | 50                            | 50              | 50                            | 50              | 50                            | 50              | 50                            | 50              | 50                            | 50                                 |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 35                                  |                       |                      |                  |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               |                                    | -  | -   | -  | -   | - | - | -  | -   | -  | -   | -  | -   | -  | -   | - |   |
| 40                                  |                       |                      |                  |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               |                                    | -  | -   | -  | -   | - | - | -  | -   | -  | -   | -  | -   | -  | -   | - | - |
| 45                                  |                       |                      |                  |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               |                                    | 45 | 119 | 45 | 119 | - | - | 45 | 119 | 45 | 114 | 45 | 114 | 45 | 114 | - | - |
| 50                                  |                       |                      |                  |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               |                 |                               |                                    | 50 | 50  | 50 | 50  | - | - | 50 | 50  | 50 | 50  | 50 | 50  | 50 | 50  | - | - |
| 60                                  |                       | 450V~ B<br>500V~ D   | -                | -                             | -               | -                             | 55              | 119                           | -               | -                             | -               | -                             | 55              | 119                           | -               | -                             | -                                  | -  |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 70                                  |                       |                      | -                | -                             | -               | -                             | 60              |                               | -               | -                             | -               | -                             | 60              |                               | -               | -                             | -                                  | -  | -   |    |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 75                                  |                       |                      | -                | -                             | -               | -                             | 65              |                               | -               | -                             | -               | -                             | 65              |                               | -               | -                             | -                                  | -  | -   | -  |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 80                                  |                       |                      | -                | -                             | -               | -                             | -               |                               | -               | -                             | -               | -                             | -               |                               | -               | -                             | -                                  | -  | -   | -  |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 90                                  |                       |                      | -                | -                             | -               | -                             | -               |                               | -               | -                             | -               | -                             | -               |                               | -               | -                             | -                                  | -  | -   | -  |     |   |   |    |     |    |     |    |     |    |     |   |   |
| 100                                 | -                     | -                    | -                | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | -               | -                             | -                                  |    |     |    |     |   |   |    |     |    |     |    |     |    |     |   |   |

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