

## Motor - Starting Capacitors



### Features

- double-potted design
- protection according to IP 54
- high current loading
- connection cable
- with clamp attachment or mounting stud

### Applications

- starting capacitors for single-phase motors with auxiliary phase

### Quick reference

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Temperature range | - 10°C ... + 60°C                               |
| Tolerance         | ±10%                                            |
| Specifications    | VDE 560 / 8                                     |
| Accessories       | if mounting stud then fixing nut is included    |
| Terminals         | connection cable: normal length 300mm or custom |

The alternating current loading may occur at most 20 times per hour with the following values:

| percentage duty cycle | ripple current loading                 |
|-----------------------|----------------------------------------|
| AB 0,55 % ED          | 20 turn-ons with each 1,0 sec duration |
| AB 1,50 % ED          | 20 turn-ons with each 2,7 sec duration |
| AB 1,70 % ED          | 20 turn-ons with each 3,0 sec duration |

### Standard Values Type MDK

| U <sub>R</sub> ~ 50-60 Hz<br>[V] | C <sub>R</sub><br>[μF] | ED     | Ø x L<br>[mm] | VDE<br>sign | Order code. |
|----------------------------------|------------------------|--------|---------------|-------------|-------------|
| 160 V ~                          | 100                    | 1,70 % | 36,8 x 69     | -           | MDK 155     |
| 160 V ~                          | 125                    | 1,70 % | 36,8 x 69     | -           | MDK 156     |
| 160 V ~                          | 140                    | 1,70 % | 36,8 x 69     | -           | MDK 157     |
| 160 V ~                          | 160                    | 1,70 % | 36,8 x 69     | -           | MDK 158     |
| 160 V ~                          | 180                    | 1,70 % | 36,8 x 69     | -           | MDK 166     |
| 160 V ~                          | 200                    | 1,70 % | 36,8 x 69     | -           | MDK 159     |
| 160 V ~                          | 250                    | 1,70 % | 36,8 x 83     | -           | MDK 160     |
| 160 V ~                          | 300                    | 1,70 % | 36,8 x 83     | -           | MDK 161     |
| 160 V ~                          | 350                    | 1,70 % | 36,8 x 83     | -           | MDK 162     |
| 160 V ~                          | 400                    | 1,70 % | 41,8 x 83     | -           | MDK 163     |
| 160 V ~                          | 450                    | 1,70 % | 41,8 x 83     | -           | MDK 164     |
| 160 V ~                          | 500                    | 1,70 % | 41,8 x 83     | -           | MDK 165     |
| 160 V ~                          | 850                    | 1,70 % | 51,8 x 118    | -           | MDK 170     |
| 320 V ~                          | 70                     | 0,55 % | 36,8 x 83     | -           | MDK 326     |
| 320 V ~                          | 80                     | 0,55 % | 36,8 x 83     | -           | MDK 327     |
| 320 V ~                          | 90                     | 0,55 % | 36,8 x 83     | -           | MDK 328     |
| 320 V ~                          | 100                    | 0,55 % | 36,8 x 83     | -           | MDK 329     |
| 320 V ~                          | 125                    | 0,55 % | 36,8 x 83     | -           | MDK 330     |
| 320 V ~                          | 140                    | 0,55 % | 36,8 x 83     | -           | MDK 331     |
| 320 V ~                          | 160                    | 0,55 % | 41,8 x 83     | -           | MDK 332     |
| 320 V ~                          | 180                    | 0,55 % | 41,8 x 83     | -           | MDK 336     |
| 320 V ~                          | 200                    | 0,55 % | 41,8 x 83     | -           | MDK 333     |
| 320 V ~                          | 250                    | 0,55 % | 51,8 x 118    | -           | MDK 334     |
| 320 V ~                          | 300                    | 0,55 % | 51,8 x 118    | -           | MDK 335     |
| 320 V ~                          | 10                     | 1,70 % | 36,8 x 69     | yes         | MDK 417     |
| 320 V ~                          | 15                     | 1,70 % | 36,8 x 69     | yes         | MDK 400     |
| 320 V ~                          | 20                     | 1,70 % | 36,8 x 69     | yes         | MDK 401     |
| 320 V ~                          | 25                     | 1,70 % | 36,8 x 69     | yes         | MDK 402     |
| 320 V ~                          | 30                     | 1,70 % | 36,8 x 69     | yes         | MDK 403     |
| 320 V ~                          | 40                     | 1,70 % | 36,8 x 69     | yes         | MDK 404     |
| 320 V ~                          | 50                     | 1,70 % | 36,8 x 83     | yes         | MDK 405     |
| 320 V ~                          | 60                     | 1,70 % | 36,8 x 83     | yes         | MDK 406     |
| 320 V ~                          | 70                     | 1,70 % | 36,8 x 83     | yes         | MDK 407     |
| 320 V ~                          | 80                     | 1,70 % | 41,8 x 83     | yes         | MDK 408     |
| 320 V ~                          | 90                     | 1,70 % | 41,8 x 83     | yes         | MDK 416     |
| 320 V ~                          | 100                    | 1,70 % | 41,8 x 83     | yes         | MDK 409     |
| 320 V ~                          | 125                    | 1,70 % | 51,8 x 118    | yes         | MDK 410     |
| 320 V ~                          | 140                    | 1,70 % | 51,8 x 118    | -           | MDK 411     |
| 320 V ~                          | 160                    | 1,70 % | 51,8 x 118    | -           | MDK 412     |
| 320 V ~                          | 180                    | 1,70 % | 51,8 x 118    | -           | MDK 413     |
| 320 V ~                          | 200                    | 1,70 % | 51,8 x 118    | -           | MDK 414     |

Please give the following information along with your order:

- cable length (normal length 300mm)
- with or without discharge resistor ( 22 / 47 / 100 KΩ )
- **with or without base stud**