Medium Voltage Products

# Motor Circuit Fuses, CMF & CMF-TCU
# Rated voltage: 3.6-12 kV
# Rated current: 63-315 A

**The fuse links type CMF/CMF-TCU can be used for motors circuit protection and they are able to withstand, without deterioration, the repeated surges associated with motor starting. Additionally, thanks to last modification of striker pin functionality that release can be now temperature dependent – Temperature Control Unit (TCU) and the low-loss characteristics of the CMF/CMF-TCU fuses make them especially suitable in compact contactor compartments.**

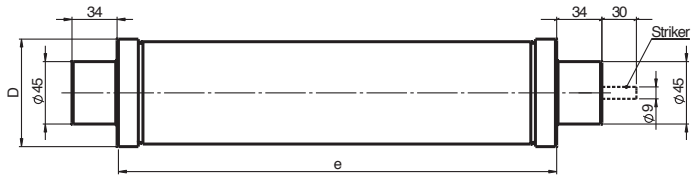
## Main features:

– specially designed for motor circuit protection,
– tested according to IEC 60644 which guarantees excellent ability to withstand repeated motor starting conditions,
– high current rating within single body dimensions,
– low minimum breaking current,
– low power losses, specially suitable in compact contactor compartments,
– high breaking capacity,
– available with BS tags,
– high current limitation,
– versions CMF-TCU equipped with Temperature Control Unit, which protects against high temperature in enclosed compartments,
– equipped with medium type striker, which is activated immediately when the fuse-elements melt,
– type tested acc. to IEC 60282-1 and IEC 60644,
– dimensions acc. to IEC 60282-1 and DIN 43625.

## Available fuses ratings and dimensions

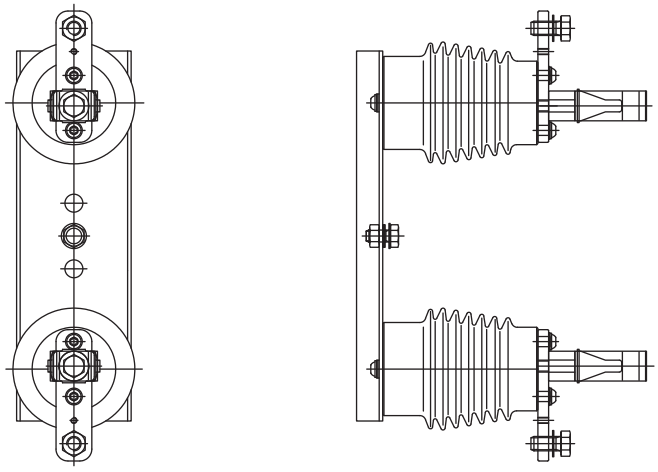
| $U_N$ | $I_N$ | e | D | K | $I_1$ | $I_3$ | $R_0$ | $P_N$ |
|---|---|---|---|---|---|---|---|---|
| [kV] | [A] | [mm] | [mm] | – | [kA] | [A] | [mΩ] | [W] |
| 3.6 | 100 | 292 | 65 | 0.75 | 50 | 275 | 3.20 | 49 |
| | 160 | 292 | 65 | 0.7 | 50 | 400 | 1.92 | 75 |
| | 200 | 292 | 87 | 0.7 | 50 | 500 | 1.40 | 75 |
| | 250 | 292 | 87 | 0.6 | 50 | 760 | 0.97 | 90 |
| | 315RC280 | 292 | 87 | 0.6 | 50 | 900 | 0.81 | 122 |
| 7.2 | 63 | 442 | 65 | 0.75 | 50 | 175 | 8.50 | 45 |
| | 100 | 442 | 65 | 0.75 | 50 | 275 | 4.86 | 67 |
| | 160 | 442 | 65 | 0.7 | 50 | 400 | 2.92 | 119 |
| | 200 | 442 | 87 | 0.7 | 50 | 500 | 2.12 | 118 |
| | 250 | 442 | 87 | 0.6 | 50 | 800 | 1.48 | 142 |
| | 315RC280 | 442 | 87 | 0.6 | 50 | 950 | 1.23 | 193 |
| 12 | 63 | 442 | 65 | 0.75 | 50 | 190 | 13.52 | 77 |
| | 100 | 442 | 87 | 0.75 | 50 | 275 | 6.62 | 103 |
| | 160 | 442 | 87 | 0.7 | 50 | 480 | 3.98 | 155 |
| | 200 | 442 | 87 | 0.7 | 50 | 560 | 2.73 | 173 |

Legend: $U_N$ – rated voltage, $I_N$ – rated current, e – fuse length, D – fuse diameter, K – K-factor according to IEC 60644, $I_1$ – maximum tested breaking current, $I_3$ – minimum breaking current, $R_0$ – fuse resistance at 20°C, $P_N$ – power loss at rated current.




## Fuse-base type UCM
## – recommended fuse-base for CMF fuses

| Type | Rated voltage [kV] | Max. tested fuse-link current [A] | Fuse length e [mm] |
|---|---|---|---|
| UCM 3.6 | 3.6 | 315 | 292 |
| UCM 7.2/12 | 7.2/12 | 315 | 442 |

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