# Capacitor contactors

## Description

Capacitor unit(Pre-loading resistor) is connected to the terminals of the contactor to reduce the high inrush current exceeding 20×In.

- AC control coil on selection
- 3-pole(NO) main contact
- Finger proof design
- DIN rail or screw mountable
- IEC 60947-4-1 AC 6b

## Rating

| Type | Rating (kVar, A) | | | |
|---|---|---|---|---|
| | 220~240V | 400~440V | 500~550V | 600~690V |
| MC-9b with AC-9 | 5kVar | 9.7kVar | 14kVar | 16kVar |
| | 13A | 14A | 16A | 15A |
| MC-12b with AC-9 | 6.7kVar | 12.5kVar | 18kVar | 18kVar |
| | 18A | 18A | 21A | 17A |
| MC-18b with AC-9 | 8.5kVar | 16.7kVar | 24kVar | 26kVar |
| | 22A | 24A | 28A | 25A |
| MC-22b with AC-9 | 10kVar | 18kVar | 26kVar | 30kVar |
| | 26A | 26A | 30A | 29A |
| MC-32a with AC-9 | 15kVar | 25kVar | 36kVar | 40kVar |
| | 39A | 36A | 42A | 38A |
| MC-40a with AC-9 | 20kVar | 33.3kVar | 48kVar | 53kVar |
| | 52A | 48A | 55A | 51A |
| MC-50a with AC-50 | 20kVar | 40kVar | 58kVar | 65kVar |
| | 52A | 58A | 67A | 63A |
| MC-65a with AC-50 | 25kVar | 45.7kVar | 66kVar | 73kVar |
| | 66A | 66A | 76A | 70A |
| MC-75a with AC-75 | 29.7kVar | 54kVar | 78kVar | 85kVar |
| | 78A | 78A | 90A | 82A |
| MC-85a with AC-75 | 35kVar | 60kVar | 92kVar | 100kVar |
| | 92A | 87A | 106A | 96A |
| MC-100a with AC-75 | 37kVar | 62kVar | 94kVar | 105kVar |
| | 97A | 89A | 109A | 101A |

| Type | Rating (kVar, A) | |
|---|---|---|
| | 500~550V | 600~690V |
| MC-9b | 4kVar | 3.5kVar |
| | 4.6A | 3.4A |
| MC-12b | 4kVar | 4kVar |
| | 4.6A | 3.8A |
| MC-18b | 5kVar | 4.5kVar |
| | 5.8A | 4.3A |
| MC-22b | 8kVar | 8kVar |
| | 9.2A | 7.7A |
| MC-32a | 17kVar | 14kVar |
| | 20A | 13A |
| MC-40a | 25kVar | 18kVar |
| | 29A | 17A |
| MC-50a | 30kVar | 25kVar |
| | 35A | 24A |
| MC-65a | 40kVar | 35kVar |
| | 46A | 34A |
| MC-75a | 50kVar | 40kVar |
| | 58A | 38A |
| MC-85a | 55kVar | 45kVar |
| | 64A | 43A |
| MC-100a | 60kVar | 48kVar |
| | 69A | 46A |
| MC-130a | 70kVar | 60kVar |
| | 81A | 58A |
| MC-150a | 90kVar | 78kVar |
| | 104A | 75A |
| MC-185a | 120kVar | 100kVar |
| | 139A | 96A |
| MC-225a | 130kVar | 105kVar |
| | 150A | 101A |
| MC-265a | 140kVar | 115kVar |
| | 162A | 111A |
| MC-330a | 185kVar | 140kVar |
| | 214A | 135A |
| MC-400a | 195kVar | 160kVar |
| | 225A | 154A |
| MC-500a | 330kVar | 290kVar |
| | 381A | 279A |
| MC-630a | 340kVar | 300kVar |
| | 393A | 289A |
| MC-800a | 370kVar | 320kVar |
| | 427A | 308A |

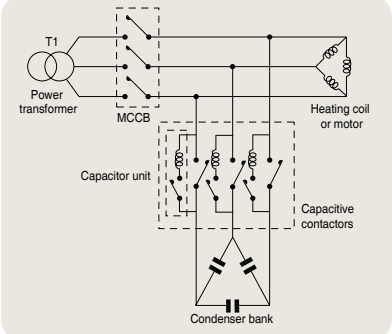
Note) 1. When the switch is closed condenser must be discharged before recharged. (Maximum residual voltage at terminals ≤ 50V)
2. To prevent short current, gG type fuse must be 1.5~2 times than rated current.

## Coil voltage

| | | |
|---|---|---|
| AC | 50Hz | 24, 32, 42, 48, 80, 100, 110, 220, 230, 240, 380, 400, 500, 550V |
| | 60Hz | 24, 48, 100, 110, 120, 200, 208, 220, 230, 240, 277, 380, 480, 600V |

These capacitive contactors are suitable for switching single-step or multiple-step condenser bank.
It is standardized by IEC-60947-4941, UL and CSA.
Features of capacitor unit(Pre-loading resistor)

- Damping resister that can limit the inrush current upto 60×In is connected to the mechanism that closed earlier than the main contact of the contactor
- No heat loss by the serial resistor
- Eliminate the switching surge
- Improving the performance of the capacitor system




Example