

# Product datasheet

## Specifications



## M9 CT Contactor - 63A - 4P - 4NC - Uc 24V AC 50Hz

M9C20167

### Main

|                                |                                  |
|--------------------------------|----------------------------------|
| Range                          | M9                               |
| Product name                   | M9 CT                            |
| Product or component type      | Contactor                        |
| Device short name              | CT                               |
| Device application             | Motor - heating - lighting       |
| Poles description              | 4P                               |
| [Ie] rated operational current | 63A AC-7a<br>20A AC-7b           |
| Pole contact composition       | 4 NC                             |
| Network type                   | AC                               |
| Control type                   | Remote control                   |
| [Uc] control circuit voltage   | 24V AC 50Hz                      |
| Standards                      | IEC/EN 61095<br>IEC/EN 60947-4-1 |
| Product certifications         | CE                               |

### Complementary

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Network frequency                      | 50 Hz                                       |
| [Ue] rated operational voltage         | 400V AC 50Hz                                |
| Heat dissipation                       | 2.1 W at 400V AC                            |
| [Ui] rated insulation voltage          | 500 V AC 50 Hz conforming to EN/IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 4 kV                                        |
| Control signal type                    | Maintained                                  |
| Switching frequency                    | 6 switching operations/minute               |
| Local signalling                       | Action indicator                            |
| Hold-in power consumption in VA        | 8.4 VA                                      |
| Inrush power in VA                     | 48 VA                                       |

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|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting mode           | Clip-on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Mounting support        | 35 mm symmetrical DIN rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 9 mm pitches            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Height                  | 85 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Width                   | 54 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Depth                   | 68 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product weight          | 335 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Color                   | Grey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Mechanical durability   | 1,000,000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Electrical durability   | 100,000 cycles IEC/EN 61095 63A 50Hz AC-7a<br>30,000 cycles IEC/EN 61095 20A 50Hz AC-7b, AC-7c<br>100,000 cycles IEC/EN 60947-4-1 50 Hz AC-1<br>30,000 cycles IEC/EN 60947-4-1 50 Hz AC-3, AC-5a, AC-5b                                                                                                                                                                                                                                                                                                                             |
| Connections - terminals | <b>Control circuit:</b> <ul style="list-style-type: none"><li>• Tunnel type terminals 1 to 16 mm<sup>2</sup> copper cable - rigid, flexible, flexible with ferrule</li><li>• Tunnel type terminals two 1.5 mm<sup>2</sup> copper cables - rigid, flexible, flexible with ferrule</li></ul> <b>Power circuit:</b> <ul style="list-style-type: none"><li>• Tunnel type terminals 6 to 25 mm<sup>2</sup> copper cable - rigid</li><li>• Tunnel type terminals 6 to 16 mm<sup>2</sup> copper cable - flexible or with ferrule</li></ul> |
| Wire stripping length   | <b>Control circuit:</b> 10 mm<br><b>Power circuit:</b> 14 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Tightening torque       | <b>Control circuit:</b> 0.8 N.m<br><b>Power circuit:</b> 3.5 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product compatibility   | ACTs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Compatibility code      | CT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Market segment          | Small commercial<br>Residential                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Environment

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| Noise level                           | 30 dB                                                                            |
| IP degree of protection               | IP20 conforming to IEC 60529<br>IP40 (modular enclosure) conforming to IEC 60529 |
| Pollution degree                      | 2 conforming to IEC/EN 60947-2                                                   |
| Electromagnetic compatibility         | 8/20 µs impulse withstand, 250 A                                                 |
| Tropicalization                       | 2 conforming to IEC/EN 60947-4-1<br>2 conforming to IEC/EN 61095                 |
| Relative humidity                     | 95% at 55 °C                                                                     |
| Operating altitude                    | 2000 m                                                                           |
| Ambient air temperature for operation | -5...60 °C                                                                       |
| Ambient air temperature for storage   | -40...70 °C                                                                      |

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## Order and shipping

|                              |         |
|------------------------------|---------|
| Unit type of package 1       | SA6     |
| Number of units in package 1 | 1       |
| Package 1 height             | 8.5 cm  |
| Package 1 width              | 5.6 cm  |
| Package 1 length             | 9.5 cm  |
| Package 1 weight             | 360 g   |
| Unit type of package 2       | S02b    |
| Number of units in package 2 | 40      |
| Package 2 height             | 20 cm   |
| Package 2 width              | 32 cm   |
| Package 2 length             | 40 cm   |
| Package 2 weight             | 15.4 kg |

## Contractual warranty

24 months