



MFN716A

MCB 1P+N 3kA C-16A 1M

Technical Features

Architecture

| | |
|--------------|------|
| Type of pole | 1P+N |
| Curve | C |

Electric current

| | |
|---|---------------|
| Rated current | 16 A |
| Rated service breaking capacity Ics AC according to IEC 60898-1 | 3 kA |
| Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1 | 3 kA |
| Min./max. threshold value of the AC thermal operation | 1.13 - 1.45 A |
| Rated current -25°C | 19.70 A |
| Rated current at -20°C | 19.40 A |
| Rated current -15°C | 19.10 A |
| Rated current -10°C | 18.80 A |
| Rated current -5°C | 18.50 A |
| Rated current at 0°C | 18.10 A |
| Rated current 5°C | 17.80 A |
| Rated current 10°C | 17.50 A |
| Rated current 15°C | 17.10 A |
| Rated current at 20°C | 16.70 A |
| Rated current 25°C | 16.40 A |
| Rated current 30°C | 16 A |
| Rated current 35°C | 15.60 A |
| Rated current at 40°C | 15.20 A |
| Rated current at 45°C | 14.80 A |
| Rated current at 50°C | 14.40 A |
| Rated current 55°C | 14 A |
| Rated current 60°C | 13.50 A |
| Rated current 65°C | 13.10 A |
| Rated current 70°C | 12.60 A |
| Correction factor of rating current for 2 devices placed side by side | 1 |
| Correction factor of rating current for 3 devices placed side by side | 0.95 |
| Correction factor of rating current for 4 and 5 devices placed side by side | 0.90 |
| Correction factor of rating current for 6 devices placed side by side | 0.85 |

Main electrical attributes

| | |
|---|------|
| Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 | 3 kA |
|---|------|

Installation, mounting

| | |
|---|----------------|
| Nominal tightening torque down terminal | 1.90 - 1.90 Nm |
| Nominal tightening torque top terminal | 1.90 - 1.90 Nm |

Voltage

| | |
|---|-------------|
| Rated operational voltage Ue | 230 - 240 V |
| Type voltage supply | AC |
| Rated insulation voltage Ui | 500 V |
| Rated impulse withstand voltage Uimp | 4000 V |
| Max. operating voltage | 253 V |
| Overvoltage category according to IEC 60947-1 | 3 |

Frequency

| | |
|-----------|------------|
| Frequency | 50 - 60 Hz |
|-----------|------------|

Capacity

| | |
|-------------------|---|
| Number of modules | 1 |
|-------------------|---|

Product Datasheet

MFN716A

Installation, mounting

| | |
|---|----------------|
| Type of top connection for modular devices | Screw terminal |
| Type of bottom connection for modular devices | Screw terminal |
| Nominal tightening torque | 1.90 - 1.90 Nm |

Connection

| | |
|---|------------------------|
| Cross-section of input with screws, for massive conductors | 1 - 25 mm ² |
| Cross-section of input with screws, for flexible conductors | 1 - 16 mm ² |

Power

| | |
|---------------------------|--------|
| Total power loss under IN | 4.40 W |
|---------------------------|--------|

Use conditions

| | |
|-----------------------|-------------|
| Operating temperature | -25 - 70 °C |
| Max. Altitude | 2000 m |

Endurance

| | |
|--|-------|
| Electric endurance in number of cycles | 1000 |
| Number of mechanical operations | 20000 |

Safety

| | |
|-------------------------------|------|
| Ingress Protection (IP) class | IP20 |
|-------------------------------|------|

Connectivity

| | |
|---|------------------|
| Type of connection | Screw terminal |
| Top connection alignment for modular devices | Shifted terminal |
| Down connection alignment for modular devices | Shifted terminal |

Dimensions

| | |
|--------|----------|
| Height | 84.70 mm |
| Width | 17.50 mm |
| Depth | 70 mm |

Sustainability

| | |
|--------------|-----|
| RoHS conform | Yes |
|--------------|-----|