



MLN720A

MCB 1P+N 6kA C-20A 1M

Technical properties

Architecture

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

Electric current

| | |
|---|---------------|
| Rated current | 20 A |
| Rated service breaking capacity Ics AC according to IEC 60898-1 | 6 kA |
| Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1 | 6 kA |
| Min./max. threshold value of the AC thermal operation | 1.13 - 1.45 A |
| Min./max. threshold value of the DC thermal operation | 1.13 - 1.45 A |
| Rated current -25°C | 25.30 A |
| Rated current at -20°C | 24.90 A |
| Rated current -15°C | 24.40 A |
| Rated current -10°C | 24 A |
| Rated current -5°C | 23.50 A |
| Rated current at 0°C | 23 A |
| Rated current 5°C | 22.60 A |
| Rated current 10°C | 22.10 A |
| Rated current 15°C | 21.60 A |
| Rated current at 20°C | 21.10 A |
| Rated current 25°C | 20.50 A |
| Rated current 30°C | 20 A |
| Rated current 35°C | 19.50 A |
| Rated current at 40°C | 18.90 A |
| Rated current at 45°C | 18.30 A |
| Rated current at 50°C | 17.70 A |
| Rated current 55°C | 17.10 A |
| Rated current 60°C | 16.40 A |
| Rated current 65°C | 15.70 A |
| Rated current 70°C | 15 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 |
|---|------|

Installation, mounting

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

Main electrical attributes

| | |
|---|------|
| Rated short-circuit breaking capacity I _{cn} AC according to IEC 60898-1 | 6 kA |
|---|------|

Voltage

| | |
|--|-------------|
| Rated operational voltage U _e | 230 - 240 V |
| Type voltage supply | AC |
| Rated insulation voltage U _i | 500 V |
| Rated impulse withstand voltage U _{imp} | 4,000 V |
| Max. operating voltage | 253 V |
| Overvoltage category according to IEC 60947-1 | 3 |

Frequency

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

Capacity

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

Power

| | |
|---------------------------------------|--------|
| Total power loss under I _N | 4.40 W |
|---------------------------------------|--------|

Use conditions

| | |
|-----------------------|-------------|
| Operating temperature | -25 - 70 °C |
| Max. Altitude | 2,000 m |

Endurance

| | |
|--|--------|
| Electric endurance in number of cycles | 1,000 |
| Number of mechanical operations | 20,000 |

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 |

Connection

| | |
|--|------------|
| Cross-section of input with screws, for massive conductors | 1 - 25 mm² |
|--|------------|

Subject to technical modifications

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

Dimensions

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