



MCN100



MCB 1P 6kA C-0.5A 1M

Technical properties

| Arc | -hi | +~ | ct. | IFO |
|-----|-----|----|-----|-----|
| | | | | |

| Architecture | |
|---|------------------|
| Number of protected poles | 1 |
| Number of poles | 1 P |
| Type of pole | 1 P |
| Curve | С |
| Functions | |
| Concurrently switching N-neutral | No |
| Configuration | |
| Number of modules | 1 |
| Connectivity | |
| Top connection alignement for modular devices | Aligned terminal |
| Bottom connection alignement for modular devices | Aligned terminal |
| Main electrical features | |
| Rated short circuit breaking capacity Icn AC according IEC60898-1 | 6 kA |
| Rated operational voltage Ue | 230 / 400 V |
| Type of supply voltage | AC |
| Frequency | 50/60 Hz |
| Voltage | |
| Rated insulation voltage | 500 V |
| Rated impulse withstand voltage | 4000 V |
| Electric current | |
| Rated current | 0.5 A |
| Rated service breaking capacity Ics AC according IEC 60898-1 | 6 kA |
| min/maxi threshold value of the AC thermal operation | 1.13 / 1.45 ln |
| Magnetic regulating currrent | 5 / 10 ln |
| min/maxi threshold value of the DC magnetic operation | 7 / 15 ln |
| min/maxi threshold value of the DC thermal operation | 1.13 / 1.45 ln |
| Breaking capacity on 1 pole for IT 400V NF 60947-2 | 3 kA |
| Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 | 6 kA |

| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Electric current / temperature Rating current -25°C Rating current -20°C Rating current -10°C Rating current -5°C Rating current 0°C Rating current 5°C Rating current 10°C Rating current 20°C Rating current 5°C Rating current 30°C Rating current 20°C Rating current 25°C Rating current 25°C Rating current 25°C Rating current 30°C Rating current 35°C Rating current 35°C Rating current 40°C Rating current 40°C Rating current 45°C Rating current 55°C Rating current 50°C Rating current 50°C Rating current 50°C Rating current 60°C Rating current 65°C | 0.7 A |
|--|---------|
| Rating current -25°C Rating current -20°C Rating current -15°C Rating current -10°C Rating current -5°C Rating current 0°C Rating current 5°C Rating current 5°C Rating current 10°C Rating current 10°C Rating current 20°C Rating current 20°C Rating current 30°C Rating current 30°C Rating current 45°C Rating current 45°C Rating current 45°C Rating current 40°C Rating current 45°C Rating current 45°C Rating current 50°C Rating current 50°C Rating current 50°C Rating current 60°C Rating current 60°C Rating current 65°C | 0.7 |
| Rating current -20°C Rating current -15°C Rating current -10°C Rating current -5°C Rating current 0°C Rating current 5°C Rating current 5°C Rating current 10°C Rating current 15°C Rating current 20°C Rating current 20°C Rating current 30°C Rating current 30°C Rating current 35°C Rating current 40°C Rating current 40°C Rating current 55°C Rating current 50°C Rating current 50°C Rating current 50°C Rating current 60°C Rating current 60°C | 0.7 |
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| Rating current -5°C Rating current 0°C Rating current 5°C Rating current 10°C Rating current 15°C Rating current 25°C Rating current 25°C Rating current 35°C Rating current 35°C Rating current 40°C Rating current 40°C Rating current 55°C Rating current 50°C Rating current 50°C Rating current 50°C Rating current 55°C Rating current 60°C Rating current 60°C | |
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| Rating current 5°C Rating current 10°C Rating current 15°C Rating current 20°C Rating current 25°C Rating current 30°C Rating current 35°C Rating current 40°C Rating current 45°C Rating current 50°C Rating current 50°C Rating current 50°C Rating current 65°C | 0.6 |
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| Rating current 15°C Rating current 20°C Rating current 25°C Rating current 30°C Rating current 35°C Rating current 40°C Rating current 45°C Rating current 50°C Rating current 50°C Rating current 50°C Rating current 60°C Rating current 65°C | 0.6 |
| Rating current 20°C Rating current 25°C Rating current 30°C Rating current 35°C Rating current 40°C Rating current 45°C Rating current 50°C Rating current 50°C Rating current 60°C Rating current 65°C | 0.6 |
| Rating current 25°C Rating current 30°C Rating current 35°C Rating current 40°C Rating current 45°C Rating current 50°C Rating current 50°C Rating current 60°C Rating current 65°C | 0.6 |
| Rating current 30°C Rating current 35°C Rating current 40°C Rating current 45°C Rating current 50°C Rating current 60°C Rating current 65°C | 0.5 |
| Rating current 35°C Rating current 40°C Rating current 45°C Rating current 50°C Rating current 55°C Rating current 60°C Rating current 65°C | 0.5 |
| Rating current 40°C Rating current 45°C Rating current 50°C Rating current 55°C Rating current 60°C Rating current 65°C | 0.5 |
| Rating current 45°C Rating current 50°C Rating current 55°C Rating current 60°C Rating current 65°C | 0.5 |
| Rating current 50°C Rating current 55°C Rating current 60°C Rating current 65°C | 0.5 |
| Rating current 55°C Rating current 60°C Rating current 65°C | 0.5 |
| Rating current 60°C Rating current 65°C | 0.5 |
| Rating current 65°C | 0.5 |
| | 0.5 |
| | 0.5 |
| Rating current 70°C | 0.5 |
| Current correction factors | |
| Correction factor of rating current for 2 devices placed side-by-side | |
| Correction factor of rating current for 3 devices placed side-by-side | 0.9 |
| Correction factor of rating current for 4 and 5 devices placed side-by-side | 0. |
| Correction factor of rating current for 6 devices placed side-by-side | 0.8 |
| Correction factor of magnetic tripping with 100 Hz | 1. |
| Correction factor of magnetic tripping with 200 Hz | 1. |
| Correction factor of magnetic tripping with 400 Hz | 1. |
| Correction factor of magnetic tripping with 60 Hz | |
| Dimensions | |
| Depth of installed product | 70 mr |
| Height of installed product | 83 mr |
| Width of installed product | |
| Frequency | 17.5 mr |
| Frequency | 17.5 mr |

| Power | |
|--|------------------|
| Total power loss under IN | 0.1 W |
| Power loss per pole at In | 0.1 W |
| Endurance | |
| Electric endurance in number of cycles | 4000 |
| Number of mechanical operations | 20000 |
| Installation, mounting | |
| Type of top connection for modular devices | with screw |
| Tightening torque | 2,8Nm |
| Type of Bottom Connection for modular devices | Blconnect |
| Connection | |
| Connection cross-sect. flexible conductor | 1 / 25mm² |
| Connection cross-sect. rigid cable | 1 / 35mm² |
| Connection cross-section of input and output with screws, for massive conductors | 1 / 35 mm² |
| Connection cross section of access and exit with screws, for flexible conductor | 1 / 25 mm² |
| Type of connection | with screw |
| Standards | |
| Standard text | EN 60898-1 |
| Safety | |
| REACH conform | No |
| RoHS conform | Yes |
| Halogen free | No |
| Use conditions | |
| Operating temperature | -2570 °C |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Class of energy limitation I ² t | 3 |
| Altitude | 2000 m |
| Air humidity protection | for all climates |

-25...80 °C

Storage/transport temperature