Product Data Sheet MCN440A



MCN440A

MCB 4P 6kA C-40A 4M

Product Datasheet

| Number of protected poles | 4 |
|--|-----------------|
| Number of poles | 4 F |
| Type of pole | 4 F |
| Curve | (|
| Functions | |
| Concurrently switching N-neutral | nc |
| Connectivity | |
| Top connection alignement for modular devices | Aligned termina |
| Bottom connection alignement for modular devices | Aligned termina |
| Main electrical features | |
| Rated short circuit breaking capacity Icn AC according IEC60898-1 | 6 kA |
| Rated operational voltage Ue | 230 / 400 \ |
| Type of supply voltage | AC |
| Frequency | 50/60 Hz |
| Voltage | |
| Rated insulation voltage | 500 V |
| Rated impulse withstand voltage | 4000 \ |
| Electric current | |
| Rated current | 40 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 lr |
| Magnetic regulating currrent | 5 / 10 Ir |
| min/maxi threshold value of the DC magnetic operation | 7 / 15 lr |
| min/maxi threshold value of the DC thermal operation | 1,13 / 1,45 lr |
| Breaking capacity on 1 pole for IT 400V NF 60947-2 | 3 kA |
| Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 | 6 kA |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 10 kA |
| Descendent and the set of the set | 10 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | |

Electric current / temperature

| Rating current -25°C | 50 A |
|----------------------|--------|
| Rating current -20°C | 49,2 A |
| Rating current -15°C | 48,4 A |
| Rating current -10°C | 47,5 A |
| Rating current -5°C | 46,6 A |
| Rating current 0°C | 45,8 A |
| Rating current 5°C | 44,8 A |
| Rating current 10°C | 43,9 A |
| Rating current 15°C | 43 A |
| Rating current 20°C | 42 A |
| Rating current 25°C | 41 A |
| Rating current 30°C | 40 A |
| Rating current 35°C | 38,8 A |
| Rating current 40°C | 37,5 A |
| Rating current 45°C | 36,2 A |
| Rating current 50°C | 34,8 A |
| Rating current 55°C | 33,4 A |
| Rating current 60°C | 31,9 A |
| Rating current 65°C | 30,3 A |
| Rating current 70°C | 28,6 A |

Current correction factors

| 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 | 0,9 |
| Correction factor of rating current for 6 devices placed side-by-side | 0,85 |
| Correction factor of magnetic tripping with 100 Hz | 1,1 |
| Correction factor of magnetic tripping with 200 Hz | 1,2 |
| Correction factor of magnetic tripping with 400 Hz | 1,5 |
| Correction factor of magnetic tripping with 60 Hz | 1 |

Frequency

| Frequency | 50 to 60 Hz |
|---------------------------|-------------|
| Power | |
| Total power loss under IN | 22,4 W |
| Power loss per pole at In | 6,2 W |
| Endurance | |

| Electric endurance in number of cycles | 4000 |
|--|-------|
| Number of mechanical operations | 20000 |

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| Depth of installed product | 70 mm |
|---|------------------|
| Height of installed product | 83 mm |
| Width of installed product | 70 mm |
| Installation, mounting | |
| Type of top connection for modular devices | with screw |
| Tightening torque | 2,8Nm |
| Type of Bottom Connection for modular devices | Blconnect |
| 360° product mounting position | yes |
| 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 |
| European directive WEEE | concerned |
| Safety | |
| Protection index IP | IP20 |
| 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 |
| Storage/transport temperature | -2580 °C |