



MJN740

MCB 1P+N 4.5kA C-40A 1M

Product Datasheet

Architecture

| | |
|---------------------------|------|
| Neutral position | left |
| Number of protected poles | 1 |
| Number of poles | 2 P |
| Type of pole | 1P+N |
| Curve | C |

Functions

| | |
|----------------------------------|-----|
| Concurrently switching N-neutral | yes |
|----------------------------------|-----|

Connectivity

| | |
|---|------------------|
| Top connection alignment for modular devices | Shifted terminal |
| Bottom connection alignment for modular devices | Shifted terminal |

Main electrical features

| | |
|---|-------------|
| Rated short circuit breaking capacity Icn AC according IEC60898-1 | 4,5 kA |
| Rated operational voltage Ue | 230 / 240 V |
| Type of supply voltage | AC |
| Frequency | 50/60 Hz |

Voltage

| | |
|---------------------------------|--------|
| Rated insulation voltage | 500 V |
| Max operating voltage | 253 V |
| Rated impulse withstand voltage | 4000 V |

Electric current

| | |
|--|----------------|
| Rated current | 40 A |
| Rated service breaking capacity Ics AC according IEC 60898-1 | 4,5 kA |
| min/maxi threshold value of the AC thermal operation | 1,13 / 1,45 In |
| Magnetic regulating current | 5 / 10 In |
| Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 | 4,5 kA |

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 I _N | 7,1 W |
| Power loss per pole at I _n | 4,6 W |

Endurance

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

Dimensions

| | |
|-----------------------------|---------|
| Depth of installed product | 70 mm |
| Height of installed product | 84,7 mm |
| Width of installed product | 17,5 mm |

Installation, mounting

| | |
|---|------------|
| Type of top connection for modular devices | with screw |
| Tightening torque | 1,9Nm |
| Type of top rail clip for modular devices | Plastic |
| Type of bottom rail clip for modular devices | metallic |
| Type of Bottom Connection for modular devices | with screw |
| Top removability for modular devices | yes |
| Bottom removability for modular devices | no |
| Suitable for flush-mounting | yes |
| 360° product mounting position | yes |

Connection

| | |
|--|------------------------|
| Connection cross-section at output with screw, for flexible conductor | 1 / 16 mm ² |
| Connection cross-section at output with screw, for massive conductor | 1 / 25 mm ² |
| Connection cross-section for rigid conductor, upstream terminals with screws | 1 / 25 mm ² |
| Connection cross-section of the access with screws, with flexible conductor | 1 / 16 mm ² |
| Connection cross-section of input and output with screws, for massive conductors | 1 / 25 mm ² |
| Connection cross section of access and exit with screws, for flexible conductor | 1 / 16 mm ² |
| Type of connection | with screw |

Standards

| | |
|-------------------------|------------|
| Standard text | EN 60898-1 |
| European directive WEEE | concerned |

Safety

| | |
|---------------------|------|
| Protection index IP | IP20 |
|---------------------|------|

Use conditions

| | |
|--|------------------|
| Operating temperature | -25...70 °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 | -25...80 °C |