

16 A



MBN316A

MCB 3P 6kA B-16A 3M

Product Datasheet

Architecture

| Number of protected poles | 3 |
|---------------------------|-----|
| Number of poles | 3 P |
| Type of pole | 3 P |
| Curve | В |

Functions

| Concurrently switching N-neutral | no |
|----------------------------------|-----|
| Concurrently Switching N-neutral | 110 |

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 |

Rated current

| 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 | 3 / 5 ln |
| min/maxi threshold value of the DC magnetic operation | 4 / 7 In |
| 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 400V AC according IEC60898-1 | 6 kA |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 10 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 10 kA |



| Electric current / temperature | |
|---|-------------|
| Rating current -25°C | 20,4 A |
| Rating current -20°C | 20,1 A |
| Rating current -15°C | 19,7 A |
| Rating current -10°C | 19,3 A |
| Rating current -5°C | 18,9 A |
| Rating current 0°C | 18,5 A |
| Rating current 5°C | 18,1 A |
| Rating current 10°C | 17,7 A |
| Rating current 15°C | 17,3 A |
| Rating current 20°C | 16,9 A |
| Rating current 25°C | 16,5 A |
| Rating current 30°C | 16 A |
| Rating current 35°C | 15,5 A |
| Rating current 40°C | 15 A |
| Rating current 45°C | 14,4 A |
| Rating current 50°C | 13,9 A |
| Rating current 55°C | 13,3 A |
| Rating current 60°C | 12,7 A |
| Rating current 65°C | 12 A |
| Rating current 70°C | 11,3 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 | 8,2 W |
| Power loss per pole at In | 2,8 W |
| · · | |
| Endurance | |
| Electric endurance in number of cycles | 4000 |
| Number of mechanical operations | 20000 |



| Dimensions | |
|--|------------------|
| Depth of installed product | 70 mm |
| Height of installed product | 83 mm |
| Width of installed product | 52,5 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 |
| | |