



MB106A

MCB 1P 6kA B-6A 1M

Technical properties

| Type of pole 1 1 Curve 1 Functions Concurrently switching N-neutral N Configuration Number of modules 1 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 kv Rated operational voltage V Voltage Rated insulation voltage S000 N Rated insulatin voltage S000 N Rated insulation voltage S000 N Rated i | Number of protected poles | 1 |
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| Voltage Rated insulation voltage 500 N Rated impulse withstand voltage 4000 N Electric current 6 / Rated current 6 / Rated service breaking capacity Ics AC according IEC 60898-1 6 k/ min/maxi threshold value of the AC thermal operation 1.13 / 1.45 In Magnetic regulating currrent 3 / 5 In 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 In Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k/ | Type of supply voltage | AC |
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| Rated impulse withstand voltage 4000 M Electric current 6 / Rated current 6 / Rated service breaking capacity Ics AC according IEC 60898-1 6 k/ min/maxi threshold value of the AC thermal operation 1.13 / 1.45 In Magnetic regulating currrent 3 / 5 In 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 In Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k/ | Voltage | |
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| Rated current 6 / Rated service breaking capacity Ics AC 6 k/ according IEC 60898-1 6 k/ min/maxi threshold value of the AC thermal 0 operation 1.13 / 1.45 In Magnetic regulating currrent 3 / 5 In min/maxi threshold value of the DC 4 / 7 In min/maxi threshold value of the DC thermal 1.13 / 1.45 In Breaking capacity on 1 pole for IT 400V NF 3 k/ | Rated impulse withstand voltage | 4000 V |
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| according IEC 60898-1 6 k/ min/maxi threshold value of the AC thermal operation 1.13 / 1.45 In Magnetic regulating currrent 3 / 5 In 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 In Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k/ | Rated current | 6 A |
| operation 1.13 / 1.45 In Magnetic regulating current 3 / 5 In min/maxi threshold value of the DC 4 / 7 In min/maxi threshold value of the DC thermal operation 1.13 / 1.45 In Breaking capacity on 1 pole for IT 400V NF 3 k/ | Rated service breaking capacity Ics AC according IEC 60898-1 | 6 kA |
| 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 In Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k/ | | 1.13 / 1.45 lr |
| magnetic operation 4 / 7 In min/maxi threshold value of the DC thermal operation 1.13 / 1.45 In Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k/ | Magnetic regulating currrent | 3 / 5 Ir |
| operation 1.13 / 1.45 In Breaking capacity on 1 pole for IT 400V NF 60947-2 3 kA | | 4 / 7 Ir |
| 60947-2 3 k/ | | 1.13 / 1.45 lr |
| Rated short circuit breaking capacity Icn | | 3 kA |
| | Rated short circuit breaking capacity Icn | |

| Rated ultimate short-circuit breaking capa- city Icu under 230V AC IEC 60947-2 | 10 kA |
|---|-------|
| Rated ultimate short-circuit breaking capa- city Icu under 415V AC IEC 60947-2 | 10 kA |
| Electric current / temperature | |
| Rating current -25°C | 7.2 A |
| Rating current -20°C | 7.1 A |
| Rating current -15°C | 7 A |
| Rating current -10°C | 6.9 A |
| Rating current -5°C | 6.8 A |
| Rating current 0°C | 6.7 A |
| Rating current 5°C | 6.6 A |
| Rating current 10°C | 6.5 A |
| Rating current 15°C | 6.3 A |
| Rating current 20°C | 6.2 A |
| Rating current 25°C | 6.1 A |
| Rating current 30°C | 6 A |
| Rating current 35°C | 5.9 A |
| Rating current 40°C | 5.8 A |
| Rating current 45°C | 5.6 A |
| Rating current 50°C | 5.5 A |
| Rating current 55°C | 5.4 A |
| Rating current 60°C | 5.2 A |
| Rating current 65°C | 5.1 A |

Current correction factors

Rating current 70°C

| 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 |
| Dimensions | |
| Depth of installed product | 70 mm |
| Height of installed product | 83 mm |
| Width of installed product | 17.5 mm |
| Frequency | |
| Frequency | 50 to 60 Hz |
| | |

5 A

| Total power loss under IN | 1.3 W |
|--|------------------|
| Power loss per pole at In | 1.3 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 top rail clip for modular devices | NA |
| Type of bottom rail clip for modular devices | metallic |
| Type of Bottom Connection for modular devices | Blconnect |
| Top removability for modular devices | No |
| Bottom removability for modular devices | No |
| 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 |
| Storage/transport temperature | -2580 °C |
| | |

Identification

Aesthetic for B.G. Protection devices

FD