



MCN302

MCB 3P 6kA C-2A 3M

Technical properties

| Type of pole 3 Curve Functions Concurrently switching N-neutral N Configuration N Number of modules Connectivity Top connection alignement for modular Aligned termin Bottom connection alignement for modular Aligned termin Main electrical features Aligned termin Rated short circuit breaking capacity Icn AC according IEC60898-1 6 k Rated operational voltage Ue 230 / 400 Type of supply voltage A Frequency 50/60 H Voltage 4000 Electric current 2 Rated insulation voltage 500 Rated current 2 Rated service breaking capacity Ics AC according IEC60898-1 6 k min/maxi threshold value of the AC thermal operation 1.13 / 1.45 I Magnetic regulating current 5 / 10 I min/maxi threshold value of the DC thermal operation 7 / 15 I min/maxi threshold value of the DC thermal operation 7 / 15 I min/maxi threshold value of the DC thermal operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF operation 3 k | Number of protected poles | 3 |
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| Curve Functions Concurrently switching N-neutral Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned termin Bottom connection alignement for modular devices Aligned termin Main electrical features Rated short circuit breaking capacity Icn AC according IEC60898-1 6 k Rated operational voltage Ue 230 / 400 Type of supply voltage Frequency Sol/60 F Voltage Rated insulation voltage Electric current Rated current Rated current Rated current C Rated service breaking capacity Ics AC according IEC 60898-1 6 k Rated service breaking capacity Ics AC according IEC 60898-1 6 k Rated service breaking capacity Ics AC according IEC 60898-1 6 k min/maxit threshold value of the AC thermal operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF Breaking capacity Icn Rated short circuit breaking capacity Icn Rated short circuit breaking capacity Icn | Number of poles | 3 |
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| Type of supply voltage A Frequency 50/60 H Voltage Rated insulation voltage Rated insulation voltage 500 Rated impulse withstand voltage 4000 Electric current 2 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 I Magnetic regulating currrent 5 / 10 I min/maxi threshold value of the DC magnetic operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k Rated short circuit breaking capacity Icn 3 k | Rated short circuit breaking capacity Icn AC according IEC60898-1 | 6 k. |
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| Voltage Rated insulation voltage 500 Rated impulse withstand voltage 4000 Electric current 2 Rated current 2 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 I Magnetic regulating currrent 5 / 10 I min/maxi threshold value of the DC magnetic operation 7 / 15 I min/maxi threshold value of the DC thermal operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k Rated short circuit breaking capacity Icn 3 k | Type of supply voltage | A |
| Rated insulation voltage 500 Rated impulse withstand voltage 4000 Electric current 2 Rated current 2 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 l Magnetic regulating currrent 5 / 10 l min/maxi threshold value of the DC magnetic operation 7 / 15 l min/maxi threshold value of the DC thermal operation 1.13 / 1.45 l Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k Rated short circuit breaking capacity Icn 3 k | Frequency | 50/60 H |
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| Electric current 2 Rated current 2 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 l Magnetic regulating currrent 5 / 10 l min/maxi threshold value of the DC magnetic operation 7 / 15 l min/maxi threshold value of the DC thermal operation 7 / 15 l Min/maxi threshold value of the DC thermal operation 3 k Rated short circuit breaking capacity Icn 3 k | Rated insulation voltage | 500 |
| Rated current 2 Rated service breaking capacity Ics AC 6 according IEC 60898-1 6 k min/maxi threshold value of the AC thermal 0 operation 1.13 / 1.45 l Magnetic regulating currrent 5 / 10 l min/maxi threshold value of the DC 7 / 15 l min/maxi threshold value of the DC thermal 0 operation 1.13 / 1.45 l Breaking capacity on 1 pole for IT 400V NF 3 k Rated short circuit breaking capacity Icn 3 k | Rated impulse withstand voltage | 4000 \ |
| Rated service breaking capacity Ics AC according IEC 60898-1 6 k min/maxi threshold value of the AC thermal 0 operation 1.13 / 1.45 l Magnetic regulating currrent 5 / 10 l min/maxi threshold value of the DC 7 / 15 l min/maxi threshold value of the DC thermal 0 operation 7 / 15 l min/maxi threshold value of the DC thermal 0 operation 1.13 / 1.45 l Breaking capacity on 1 pole for IT 400V NF 3 k Rated short circuit breaking capacity Icn 3 k | Electric current | |
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| operation 1.13 / 1.45 Magnetic regulating currrent 5 / 10 min/maxi threshold value of the DC 7 / 15 min/maxi threshold value of the DC thermal 0 operation 1.13 / 1.45 Breaking capacity on 1 pole for IT 400V NF 3 k Rated short circuit breaking capacity Icn 3 | Rated service breaking capacity Ics AC according IEC 60898-1 | 6 k. |
| min/maxi threshold value of the DC magnetic operation 7 / 15 1 min/maxi threshold value of the DC thermal operation 1.13 / 1.45 1 Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k Rated short circuit breaking capacity Icn | min/maxi threshold value of the AC thermal operation | 1.13 / 1.45 |
| magnetic operation 7 / 15 min/maxi threshold value of the DC thermal operation 1.13 / 1.45 min/maxi threshold value of the DC thermal 1.13 / 1.45 min/maxi threshold value of the DC thermal 0.14 min/maxi threshold value of thermal 0.14 min/maxi threshold value of thermal 0.1 | Magnetic regulating currrent | 5 / 10 |
| operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k Rated short circuit breaking capacity Icn | min/maxi threshold value of the DC magnetic operation | 7 / 15 |
| 60947-2 3 k Rated short circuit breaking capacity Icn | min/maxi threshold value of the DC thermal operation | 1.13 / 1.45 |
| | Breaking capacity on 1 pole for IT 400V NF 60947-2 | 3 k |
| | Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 | 6 k. |

| Rated ultimate short-circuit breaking capa- city Icu under 400V 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 | 2.6 A |
| Rating current -20°C | 2.6 A |
| Rating current -15°C | 2.5 A |
| Rating current -10°C | 2.5 A |
| Rating current -5°C | 2.4 A |
| Rating current 0°C | 2.4 A |
| Rating current 5°C | 2.3 A |
| Rating current 10°C | 2.2 A |
| Rating current 15°C | 2.2 A |
| Rating current 20°C | 2.1 A |
| Rating current 25°C | 2.1 A |
| Rating current 30°C | 2 A |
| Rating current 35°C | 1.9 A |
| Rating current 40°C | 1.9 A |
| Rating current 45°C | 1.8 A |
| Rating current 50°C | 1.7 A |
| Rating current 55°C | 1.6 A |
| Rating current 60°C | 1.5 A |

1.4 A

1.4 A

Current correction factors

Rating current 65°C

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 | 52.5 mm |
| Frequency | |
| Frequency | 50 to 60 Hz |
| | |

| Total power loss under IN | 4.1 W |
|---|------------------|
| Power loss per pole at In | 1.4 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 |
| Storage/transport temperature | -2580 °C |

Identification

Aesthetic for B.G. Protection devices

PD