





MCB 3P 25kA B-16A 3M

Technical properties

| Arc | hi | tec | tu | re |
|-----|----|-----|----|----|
|-----|----|-----|----|----|

| Number of protected poles Number of poles Type of pole Fixing mode Curve Functions Concurrently switching N-neutral Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned terminal devices Aligned terminal devices Aligned terminal devices Rated short circuit breaking capacity Icn AC according IEC60898-1 Rated operational voltage Ue Type of supply voltage Frequency Solóe Voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage (Ue min) Electric current Rated service breaking capacity Ics AC according IEC 60898-1 Rated service breaking capacity Ics AC according IEC 60898-1 Frequency Solóe Voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Frequency Solóe Voltage Rated service breaking capacity Ics AC according IEC 60898-1 Rated service breaking capacity Ics AC according IEC 60898-1 Rated service breaking capacity Ics AC according IEC 60898-1 Rin/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating current 3 / 5 | | |
|--|---|------------------|
| Number of poles Type of pole Fixing mode Din-R Curve Functions Concurrently switching N-neutral Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned terminal devices Rated short circuit breaking capacity Icn AC according IEC60898-1 Type of supply voltage Frequency Sofoo Voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Field insulation voltage Rated insulation voltage Rated current Rated current Rated current Rated service breaking capacity Ics AC according IEC 60898-1 Type of supply voltage Field insulation voltage Rated current Rated service breaking capacity Ics AC according IEC 60898-1 Type of supply voltage (Ue min) Type of supply voltage Rated current Rated service breaking capacity Ics AC according IEC 60898-1 Type of supply voltage (Ue min) Type of supply volt | Neutral position | without neutral |
| Type of pole Fixing mode Din-R Curve Functions Concurrently switching N-neutral Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned termin devices Ali | Number of protected poles | 3 |
| Fixing mode Din-R Curve Functions Concurrently switching N-neutral Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned termin advices Aligned termin advi | Number of poles | 3 P |
| Functions Concurrently switching N-neutral Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned termin devices Aligned termin devices Rated short circuit breaking capacity Icn AC according IEC 60898-1 Type of supply voltage Frequency Sol60 Voltage Rated insulation voltage (Ue min) Electric current Rated service breaking capacity Ics AC according IEC 60898-1 Rated organization of the AC thermal operation of the AC thermal operation 1.13 / 1.45 Magnetic regulating currrent Aligned termin devices Aligned termin de | Type of pole | 3 P |
| Functions Concurrently switching N-neutral Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned termin devices Aligned termin devices Aligned termin devices Rated short circuit breaking capacity Icn AC according IEC60898-1 10 Rated operational voltage Ue 41: Type of supply voltage Frequency 50/60 Voltage Rated insulation voltage 500 Rated impulse withstand voltage (Ue min) 1: Electric current Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating currrent 3.75 | Fixing mode | Din-Rail |
| Concurrently switching N-neutral Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned termin device | Curve | В |
| Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned termin Bottom 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 10 Rated operational voltage Ue 41: Type of supply voltage Frequency 50/60 Voltage Rated insulation voltage 500 Rated impulse withstand voltage (Ue min) 1: Electric current Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating current 3 / 5 | Functions | |
| Connectivity Top connection alignement for modular devices Aligned termin Bottom 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 10 Rated operational voltage Ue 41: Type of supply voltage Frequency 50/60 Voltage Rated insulation voltage 500 Rated impulse withstand voltage 6000 Minimum threshold voltage (Ue min) 12 Electric current Rated current 10 Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating current 3 / 5 | Concurrently switching N-neutral | No |
| Connectivity Top connection alignement for modular devices Bottom connection alignement for modular devices Aligned termin Main electrical features Rated short circuit breaking capacity Icn AC according IEC60898-1 Rated operational voltage Ue Type of supply voltage Frequency Sol/60 Voltage Rated insulation voltage Rated impulse withstand voltage Minimum threshold voltage (Ue min) Electric current Rated current Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation Magnetic regulating currrent Aligned termin Aligned termin Aligned termin | Configuration | |
| Top connection alignement for modular devices Bottom connection alignement for modular devices Aligned termin devices Main electrical features Rated short circuit breaking capacity Icn AC according IEC60898-1 Rated operational voltage Ue Type of supply voltage Frequency 50/60 Voltage Rated insulation voltage Rated impulse withstand voltage Minimum threshold voltage (Ue min) Electric current Rated current Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation Magnetic regulating current 3 / 5 | Number of modules | 3 |
| devices Aligned termines Bottom connection alignement for modular Bottom connection alignement for modular Aligned termines Bottom connection alignement for modular according IEC 60898-1 100 | Connectivity | |
| Main electrical features Rated short circuit breaking capacity Icn AC according IEC60898-1 10 Rated operational voltage Ue 41! Type of supply voltage Frequency 50/60 Voltage Rated insulation voltage 500 Rated impulse withstand voltage (Ue min) 12 Electric current Rated current 10 Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating currrent 3 / 5 | | Aligned terminal |
| Rated short circuit breaking capacity Icn AC according IEC60898-1 10 Rated operational voltage Ue 41! Type of supply voltage Frequency 50/60 Voltage Rated insulation voltage 500 Rated impulse withstand voltage 6000 Minimum threshold voltage (Ue min) 12 Electric current Rated current 16 Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating currrent 3.75 | | Aligned terminal |
| according IEC60898-1 10 Rated operational voltage Ue 41: Type of supply voltage Frequency 50/60 Voltage Rated insulation voltage 500 Rated impulse withstand voltage 6000 Minimum threshold voltage (Ue min) 1: Electric current Rated current 10 Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating current 3.75 | Main electrical features | |
| Type of supply voltage Frequency 50/60 Voltage Rated insulation voltage 500 Rated impulse withstand voltage 6000 Minimum threshold voltage (Ue min) 12 Electric current Rated current 10 Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating current 3 / 5 | | 10 kA |
| Frequency 50/60 Voltage Rated insulation voltage 500 Rated impulse withstand voltage 6000 Minimum threshold voltage (Ue min) 12 Electric current Rated current 16 Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating current 3 / 5 | Rated operational voltage Ue | 415 V |
| Voltage Rated insulation voltage 500 Rated impulse withstand voltage 6000 Minimum threshold voltage (Ue min) 12 Electric current Rated current 16 Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating current 3 / 5 | Type of supply voltage | AC |
| Rated insulation voltage 5000 Rated impulse withstand voltage 60000 Minimum threshold voltage (Ue min) 123 Electric current Rated current 160 Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating current 3 / 5 | Frequency | 50/60 Hz |
| Rated impulse withstand voltage (Ue min) Electric current Rated current Rated service breaking capacity Ics AC according IEC 60898-1 min/maxi threshold value of the AC thermal operation Magnetic regulating current 6000 1.13 / 1.45 | Voltage | |
| Minimum threshold voltage (Ue min) Electric current Rated current 10 Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating current 3 / 5 | Rated insulation voltage | 500 V |
| Electric current Rated current 10 Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating current 3 / 5 | Rated impulse withstand voltage | 6000 V |
| Rated current 10 Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating current 3 / 5 | Minimum threshold voltage (Ue min) | 12 V |
| Rated service breaking capacity Ics AC according IEC 60898-1 7.5 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating current 3 / 5 | Electric current | |
| according IEC 60898-1 min/maxi threshold value of the AC thermal operation 1.13 / 1.45 Magnetic regulating current 7.5 | Rated current | 16 A |
| operation 1.13 / 1.45 Magnetic regulating current 3 / 5 | | 7.5 kA |
| | | 1.13 / 1.45 In |
| min/maxi threshold value of the DC | Magnetic regulating currrent | 3 / 5 In |
| | min/maxi threshold value of the DC magnetic operation | 3 / 7.5 In |
| min/maxi threshold value of the DC thermal operation 1.13 / 1.45 | | 1.13 / 1.45 ln |

| 60947-2 | 3 |
|--|-------|
| Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 | 10 |
| Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 | 10 |
| Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1 | 10 |
| Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1 | 10 |
| Electric current / temperature | |
| Rating current -25°C | 20.27 |
| Rating current -20°C | 19.92 |
| Rating current -15°C | 19.56 |
| Rating current -10°C | 19.2 |
| Rating current -5°C | 18.83 |
| Rating current 0°C | 18.45 |
| Rating current 5°C | 18.07 |
| Rating current 10°C | 17.67 |
| Rating current 15°C | 17.27 |
| Rating current 20°C | 16.86 |
| Rating current 25°C | 16.43 |
| Rating current 30°C | 16 |
| Rating current 35°C | 15.48 |
| Rating current 40°C | 14.94 |
| Rating current 45°C | 14.38 |
| Rating current 50°C | 13.8 |
| Rating current 55°C | 13.19 |
| Rating current 60°C | 12.56 |
| Rating current 65°C | 11.89 |
| Rating current 70°C | 11.18 |
| Current correction factors | |
| Correction factor of rating current for 2 devices placed side-by-side | |
| Correction factor of rating current for 3 devices placed side-by-side | 0. |
| Correction factor of rating current for 4 and 5 devices placed side-by-side | (|
| Correction factor of rating current for 6 devices placed side-by-side | 0. |
| Correction factor of magnetic tripping with 100 Hz | : |
| Correction factor of magnetic tripping with 200 Hz | : |
| Correction factor of magnetic tripping with 400 Hz | : |
| Correction factor of magnetic tripping with 60 Hz | |
| Dimensions | |
| Depth of installed product | 70 m |

| Height of installed product | 83 mm |
|---|------------------|
| Width of installed product | 52.5 mm |
| Frequency | |
| Frequency | 50 to 60 Hz |
| Power | |
| Total power loss under IN | 8.27 W |
| Power loss per pole at In | 2.8 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 | plastic |
| Type of Bottom Connection for modular devices | Blconnect |
| Top removability for modular devices | Yes |
| Connection 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 |
| Equipment | |
| With transparent product label holder | Yes |
| Standards | |
| 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 I²t | 3 |
| Altitude | 2000 m |
| Air humidity protection | for all climates |
| Storage/transport temperature | -2580 °C |