



HMX350

MCB 3P 50kA C-50A 4.5M

Technical properties

| Arc | hit | tec | ture |
|-----|-----|-----|------|
|-----|-----|-----|------|

| Architecture | |
|---|------------------|
| Number of protected poles | 3 |
| Number of poles | 3 P |
| Type of pole | 3 P |
| Curve | С |
| Functions | |
| Concurrently switching N-neutral | No |
| Configuration | |
| Number of modules | 4.5 |
| 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 | 50 kA |
| Rated operational voltage Ue | 415 V |
| Type of supply voltage | AC |
| Frequency | 50/60 Hz |
| Voltage | |
| Rated insulation voltage | 500 V |
| Rated impulse withstand voltage | 6000 V |
| Electric current | |
| Rated current | 50 A |
| min/maxi threshold value of the AC thermal operation | 1.05 / 1.3 In |
| Magnetic regulating currrent | 5 / 10 In |
| Rating current -10°C according to IEC 60947 | 65.79 A |
| Rating current -15°C according to IEC 60947 | 67.17 A |
| Rating current -20°C according to IEC 60947 | 68.52 A |
| Rating current -25°C according to IEC 60947 | 69.84 A |
| Rating current -5°C according to IEC 60947 | 64.39 A |

| Rating current 0°C according to IEC 60947 | 62.95 A |
|---|-------------|
| Rating current 10°C according to IEC 60947 | 59.98 A |
| Rating current 15°C according to IEC 60947 | 58.43 A |
| Rating current 20°C according to IEC 60947 | 56.85 A |
| Rating current 25°C according to IEC 60947 | 55.21 A |
| Rating current 30°C according to IEC 60947 | 53.53 A |
| Rating current 35°C according to IEC 60947 | 51.8 A |
| Rating current 40°C according to IEC 60947 | 50 A |
| Rating current 45°C according to IEC 60947 | 48.14 A |
| Rating current 5°C according to IEC 60947 | 61.48 A |
| Rating current 50°C according to IEC 60947 | 46.2 A |
| Rating current 55°C according to IEC 60947 | 44.17 A |
| Rating current 60°C according to IEC 60947 | 42.05 A |
| Rating current 65°C according to IEC 60947 | 39.82 A |
| Rating current 70°C according to IEC 60947 | 37.45 A |
| Rated ultimate short-circuit breaking | 37.137. |
| capacity Icu AC IEC 60947-2 | 50 kA |
| Breaking capacity on 1 pole for IT 400V NF 60947-2 | 4.5 kA |
| Breaking capacity on 1 pole for IT 415V NF 60947-2 | 4.5 kA |
| Rated service breaking capacity Ics AC according IEC 60947-2 | 50 % |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 50 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 |
| Dimensions | |
| Depth of installed product | 70 mm |
| Height of installed product | 90 mm |
| Width of installed product | 80 mm |
| Frequency | |
| Frequency | 50 to 60 Hz |
| Power | |
| | |
| Total power loss under IN | 11.46 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 | 3,5 to 5Nm |
| Type of top rail clip for modular devices | Plastic |
| Type of bottom rail clip for modular devices | plastic |
| Type of Bottom Connection for modular devices | with screw |
| Top removability for modular devices | Yes |
| Bottom removability for modular devices | Yes |
| Connection | |
| Connection cross-section at output with screw, for flexible conductor | 1 / 50 mm² |
| Connection cross-section at output with screw, for massive conductor | 1 / 70 mm² |
| Connection cross-sect. flexible conductor | 50mm² |
| Connection cross-sect. rigid cable | 70mm² |
| Connection cross-section for rigid conductor, upstream terminals with screws | 1 / 70 mm² |
| Connection cross-section of the access with screws, with flexible conductor | 1 / 50 mm² |
| Connection cross-section of input and output with screws, for massive conductors | 1 / 70 mm² |
| Connection cross section of access and exit with screws, for flexible conductor | 1 / 50 mm² |
| Type of connection | terminal with tightening compensation system |
| Standards | |
| Standard text | IEC 60947-2 |
| Safety | |
| REACH conform | Yes |
| RoHS conform | Yes |
| Halogen free | No |
| Use conditions | |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3 |
| Class of energy limitation I²t | 3 |
| Altitude | 2000 m |
| Air humidity protection | for all climates |
| temperatur | |
| | |

40 °C

Temperature of calibration