Product Data Sheet HMX410





HMX410

MCB 4P 50kA C-10A 6M

Product Datasheet

| Architecture | |
|--|------------------|
| Number of protected poles | 2 |
| Number of poles | 4 F |
| Type of pole | 4 F |
| Curve | C |
| Functions | |
| Concurrently switching N-neutral | nc |
| Connectivity | |
| Top connection alignement for modular devices | Aligned termina |
| 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 | 10 A |
|---|---------------|
| min/maxi threshold value of the AC thermal operation | 1,05 / 1,3 lr |
| Magnetic regulating currrent | 5 / 10 lr |
| Rating current -10°C according to IEC 60947 | 13 A |
| Rating current -15°C according to IEC 60947 | 13,55 A |
| Rating current -20°C according to IEC 60947 | 13,86 A |
| Rating current -25°C according to IEC 60947 | 14,17 A |
| Rating current -5°C according to IEC 60947 | 12,94 A |
| Rating current 0°C according to IEC 60947 | 12,63 A |
| Rating current 10°C according to IEC 60947 | 12,02 A |
| Rating current 150°C according to IEC 60947 | 11,71 A |
| Rating current 20°C according to IEC 60947 | 11,4 A |
| Rating current 25°C according to IEC 60947 | 11,1 A |
| Rating current 30°C according to IEC 60947 | 10,4 A |
| Rating current 35°C according to IEC 60947 | 10,48 A |
| Rating current 40°C according to IEC 60947 | 10 A |
| Rating current 45°C according to IEC 60947 | 9,87 A |
| Rating current 5°C according to IEC 60947 | 12,33 A |
| Rating current 50°C according to IEC 60947 | 9,56 A |
| Rating current 55°C according to IEC 60947 | 9,26 A |
| Rating current 60°C according to IEC 60947 | 8,95 A |
| Rating current 65°C according to IEC 60947 | 8,64 A |
| Rating current 70°C according to IEC 60947 | 8,33 A |
| Rated ultimate short-circuit breaking 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 |

Frequency

| Frequency | 50 to 60 Hz |
|-----------|-------------|
| Frequency | 50 to 60 Hz |



| Power | |
|--|--|
| Total power loss under IN | 9,26 W |
| Power loss per pole at In | 2,36 V |
| Endurance | |
| Electric endurance in number of cycles | 4000 |
| Number of mechanical operations | 2000 |
| Dimensions | |
| Depth of installed product | 70 mn |
| Height of installed product | 90 mn |
| Width of installed product | 106 mn |
| Installation, mounting | |
| Type of top connection for modular devices | with screv |
| Tightening torque | 3,5 to 5Nn |
| Type of top rail clip for modular devices | Plasti |
| Type of bottom rail clip for modular devices | plasti |
| Type of Bottom Connection for modular devices | with screw |
| Top removability for modular devices | уе |
| Bottom removability for modular devices | уе |
| 360° product mounting position | ye |
| Connection cross-section at output with screw, for flexible conductor Connection cross-section at output with screw, for | 1 / 50 mm |
| massive conductor | 1,701 |
| Connection cross-sect. flexible conductor | 50mm |
| Connection cross-sect. rigid cable | 70mm |
| Connection cross-section for rigid conductor, upstream terminals with screws | 1 / 70 mm |
| Connection cross-section of the access with screws, with flexible conductor | 1 / 50 mm |
| Connection cross-section of input and output with screws, for massive conductors | 1 / 70 mm |
| Connection cross section of access and exit with screws, for flexible conductor | 1 / 50 mm |
| Type of connection | terminal with tightening compensation syster |
| Nominal tightening torque bottom terminal | 3,6 Nn |
| Nominal tightening torque top terminal | 3,6 Nr |
| Standards | |
| Standard text | IEC 60947- |
| European directive WEEE | concerne |
| Product categories described in the W3E directive 2012/19/EU | Category |
| Safety | |
| Protection index IP | IP2 |
| | |

Technical subject to change

40 °C

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

| Temperature of calibration |
|----------------------------|
|----------------------------|