DATASHEET - HNC-40/4/003



Residual current circuit breaker (RCCB), 40A, 4p, 30mA, type AC

Powering Business Worldwide

HNC-40/4/003 Part no. Catalog No. 194694

| 71 0 | | | |
|------------------------------|-----------------|----|--|
| Basic function | | | Residual current circuit-breakers |
| Number of poles | | | 4 pole |
| Application | | | Residual current circuit-breaker for residential and commercial applications |
| Rated current | In | Α | 40 |
| Rated short-circuit strength | I _{cn} | kA | 6 |
| Rated fault current | $I_{\Delta N}$ | Α | 0.03 |
| Туре | | | Type AC |
| Tripping | | s | non-delayed |
| Product range | | | HNC |
| Sensitivity | | | AC current sensitive |
| Impulse withstand current | | | Partly surge-proof 250 A |

Technical data

Electrical

Built-in width

Thickness of busbar material

| Rated operational voltage | U _e | V | |
|------------------------------|-----------------|------|----------------------|
| | U _e | V AC | |
| Rated operating voltage | U _e | V AC | 230/400 |
| Rated frequency | f | Hz | 50 |
| Sensitivity | | | AC current sensitive |
| Rated short-circuit strength | I _{cn} | kA | 6 |
| Mechanical | | | |
| Device height | | mm | 80 |

mm

mm

70 (4TE)

0.8 - 2

| Design verification as per IEC/EN 61439 | | | |
|--|------------------|----|---|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | In | Α | 40 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 9.6 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 60 |
| | | | Starting at 40 °C, the max. permissible continuous current decreases by 2.5% for every 1 °C |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | | Meets the product standard's requirements. |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects | | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | | Meets the product standard's requirements. |
| 10.2.5 Lifting | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | | | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | | | Meets the product standard's requirements. |

| 10.5 Protection against electric shock | Does not apply, since the entire switchgear needs to be evaluated. |
|--|--|
| 10.6 Incorporation of switching devices and components | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | Is the panel builder's responsibility. |
| 10.9 Insulation properties | |
| 10.9.2 Power-frequency electric strength | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | Is the panel builder's responsibility. |
| 10.10 Temperature rise | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 7.0

Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB) (ecl@ss10.0.1-27-14-22-01 [AAB906014])

| Number of poles | | | 4 |
|---|------------|-----|----------|
| Rated voltage | V | : | 230 |
| Rated current | Α | | 40 |
| Rated fault current | m <i>A</i> | Α : | 30 |
| Rated insulation voltage Ui | V | | 440 |
| Rated impulse withstand voltage Uimp | kV | , | 4 |
| Mounting method | | | DIN rail |
| Leakage current type | | | AC |
| Selective protection | | | No |
| Short-time delayed tripping | | | No |
| Short-circuit breaking capacity (Icw) | kA | ١ | 6 |
| Surge current capacity | kA | ١ | 0.25 |
| Frequency | | ! | 50 Hz |
| Additional equipment possible | | , | Yes |
| With interlocking device | | , | Yes |
| Degree of protection (IP) | | | IP20 |
| Width in number of modular spacings | | | 4 |
| Built-in depth | mn | m · | 45 |
| Ambient temperature during operating | °C | ; | -25 - 40 |
| Pollution degree | | : | 2 |
| Connectable conductor cross section multi-wired | mn | m² | 1.5 - 16 |
| Connectable conductor cross section solid-core | mr | m² | 1.5 - 35 |
| | | | |