Circuit-breaker 3 pole, 40A, motor protection



Part no. NZMS2-M40 Catalog No. 109971

Similar to illustration

| Delivery program | | | |
|---|--------------------------|----|--|
| Description | | | Tripping class 10 A IEC/EN 60947-2 |
| | | | The circuit-breaker fulfills all requirements for AC-3 switching category. |
| Switching capacity | | | |
| 400/415 V 50 Hz | I _{cu} | kA | 70 |
| Rated current = rated uninterrupted current | $I_n = I_u$ | Α | 40 |
| Setting range | | | |
| Overload trip | | | |
| 中 | I _r | Α | 32 - 40 |
| Short-circuit releases | | | |
| Non-delayed | $I_i = I_n \times \dots$ | | 8 - 14 |
| Motor rating AC-3 50/60 Hz | | | |
| 380 V 400 V | Р | kW | 18.5 |
| Motor rating AC-3 50/60 Hz | | | |
| 400 V | Р | kW | 18.5 |
| Rated operational current AC-3 50/60 Hz | | | |
| 400 V | I _e | Α | 36 |

Technical data

General

| Ambient temperature | | | | |
|---|-----------------|----|-------------|--|
| Ambient temperature, storage | | °C | - 40 - + 70 | |
| Operation | | °C | -25 - +70 | |
| Circuit-breakers | | | | |
| Rated current = rated uninterrupted current | $I_n = I_u$ | Α | 40 | |
| Switching capacity | | | | |
| Rated short-circuit breaking capacity \mathbf{I}_{cn} | I _{cn} | | | |
| Icu to IEC/EN 60947 test cycle 0-t-C0 | lcu | kA | | |
| 400/415 V 50/60 Hz | I _{cu} | kA | 70 | |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|------------------|----|--|
| Equipment heat dissipation, current-dependent | P _{vid} | W | 13.44 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 70 |
| 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 switch gear 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

Low-voltage industrial components (EG000017) / Motor protection circuit-breaker (EC000074)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Motor protection circuit-breaker (ecl@ss10.0.1-27-37-04-01

| [AGZ529016]) | | |
|--|----|--|
| Overload release current setting | Α | 32 - 40 |
| Adjustment range undelayed short-circuit release | Α | 320 - 560 |
| With thermal protection | | |
| Phase failure sensitive | | Yes |
| Switch off technique | | Thermomagnetic |
| Rated operating voltage | V | 690 - 690 |
| Rated permanent current lu | Α | 40 |
| Rated operation power at AC-3, 230 V | kW | 11 |
| Rated operation power at AC-3, 400 V | kW | 18.5 |
| Type of electrical connection of main circuit | | Screw connection |
| Type of control element | | Rocker lever |
| Device construction | | Built-in device fixed built-in technique |
| With integrated auxiliary switch | | No |
| With integrated under voltage release | | No |
| Number of poles | | 3 |
| Rated short-circuit breaking capacity Icu at 400 V, AC | kA | 150 |
| Degree of protection (IP) | | IP20 |
| Height | mm | 184 |
| Width | mm | 105 |
| Depth | mm | 149 |

Additional product information (links)

additional technical information for NZM power switch https://es-assets.eaton.com/DOCUMENTATION/PDF/nzm_technic_de_en.pdf