



Motor-protective circuit-breaker, 3p+1N/0, Ir=6.3-10A, screw/spring clamp connection, large packaging

Part no. PKZM0-10-SC/NHI-E-10-C-GVP
Article no. 257061
Catalog No. XTPRSC010BC1NLFA10BP

Design verification as per IEC/EN 61439

| | | | |
|--|------------|---|--|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | I_n | A | 10 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 6.48 |
| Heat dissipation capacity | P_{diss} | W | 0 |
| 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 6.0

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| 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@ss8.1-27-37-04-01 [AGZ529013]) | | | |
| Overload release current setting | | A | 6.3 - 10 |
| Adjustment range undelayed short-circuit release | | A | 155 - 155 |
| Thermal protection | | | No |
| Phase failure sensitive | | | Yes |
| Switch off technique | | | Thermomagnetic |
| Rated operating voltage | | V | 690 - 690 |
| Rated permanent current I_u | | A | 10 |
| Rated operation power at AC-3, 230 V | | kW | 2.2 |
| Rated operation power at AC-3, 400 V | | kW | 4 |
| Type of electrical connection of main circuit | | | Spring clamp connection |

| | | | |
|--|--|----|--|
| Type of control element | | | Turn button |
| Device construction | | | Built-in device fixed built-in technique |
| With integrated auxiliary switch | | | Yes |
| 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 | 93 |
| Width | | mm | 45 |
| Depth | | mm | 76 |