

| Ambient operating temperature (enclosed) - min | $-25^{\circ} \mathrm{C}$ |
| :---: | :---: |
| Ambient operating temperature (enclosed) - max | $40^{\circ} \mathrm{C}$ |
| Ambient storage temperature - min | $-40^{\circ} \mathrm{C}$ |
| Ambient storage temperature - max | $80^{\circ} \mathrm{C}$ |
| Climatic proofing | Damp heat, cyclic, to IEC 60068-2-30 <br> Damp heat, constant, to IEC 60068-2-78 |
| Terminal capacities |  |
| Terminal capacity (flexible with ferrule) | $1 \times(1-6) \mathrm{mm}^{2}$, ferrule to DIN 46228 $2 \times(1-6) \mathrm{mm}^{2}$, ferrule to DIN 46228 |
| Terminal capacity (solid) | $\begin{aligned} & 1 \times(1-6) \mathrm{mm}^{2} \\ & 2 \times(1-6) \mathrm{mm}^{2} \end{aligned}$ |
| Terminal capacity (solid/stranded AWG) | 18-10 |
| Stripping length (main cable) | 10 mm |
| Tightening torque | 1.7 Nm, Screw terminals, Main cable |
| Electrical rating |  |
| Rated frequency - min | 50 Hz |
| Rated frequency - max | 60 Hz |
| Rated operational current (le) | 10 A |
| Rated operational power at AC-3, 220/230 V, 50 Hz | 2.2 kW |
| Rated operational power at AC-3, $380 / 400 \mathrm{~V}, 50 \mathrm{~Hz}$ | 4 kW |
| Rated operational power at $\mathrm{AC}-3,440 \mathrm{~V}, 50 \mathrm{~Hz}$ | 4 kW |
| Rated operational voltage (Ue) - min | 440 V |
| Rated operational voltage (Ue) - max | 440 V |
| Rated uninterrupted current (lu) | 10 A |
| Short-circuit rating |  |
| Rated short-circuit breaking capacity Icu at 400 V AC | 50 kA |
| Short-circuit current | $60 \mathrm{kA} \mathrm{DC}$,up to 250 V DC, Main conducting paths |
| Short-circuit current rating (group protection) | 50 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) with 150 A, 600 V High Fault, Fuse, SCCR (UL/CSA) <br> 30 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) with $600 \mathrm{~A}, 600 \mathrm{~V}$ High Fault, Fuse, SCCR (UL/CSA) <br> 30 kA, 600 V High Fault, CB, SCCR (UL/CSA) with $600 \mathrm{~A}, 600 \mathrm{~V}$ High Fault, CB, SCCR (UL/CSA) |
| Short-circuit release | 155 A, Irm, Setting range max. Basic device fixed 15.5 x lu, Trip Blocks $\pm 20 \%$ tolerance, Trip blocks |
| Switching capacity |  |
| Switching capacity | 10 A ( 3 contacts in series), DC-5 up to 250 V $10 \mathrm{~A}, \mathrm{AC}-3$ up to 440 V |
| Motor rating |  |
| Assigned motor power at $115 / 120 \mathrm{~V}, 60 \mathrm{~Hz}, 1$-phase | 0.5 HP |
| Assigned motor power at $200 / 208 \mathrm{~V}, 60 \mathrm{~Hz}, 3$-phase | 3 HP |
| Assigned motor power at $230 / 240 \mathrm{~V}, 60 \mathrm{~Hz}, 1$-phase | 1.5 HP |
| Assigned motor power at $230 / 240 \mathrm{~V}, 60 \mathrm{~Hz}, 3$-phase | 3 HP |
| Assigned motor power at $460 / 480 \mathrm{~V}, 60 \mathrm{~Hz}, 3$-phase | 7.5 HP |
| Assigned motor power at $575 / 600 \mathrm{~V}, 60 \mathrm{~Hz}, 3$-phase | 10 HP |
| Trip blocks |  |
| Overload release current setting - min | 6.3 A |
| Overload release current setting - max | 10 A |
| Tripping characteristic | Overload trigger: tripping class 10 A |
| Design verification |  |
| Equipment heat dissipation, current-dependent Pvid | 6.48 W |
| Heat dissipation capacity Pdiss | OW |
| Heat dissipation per pole, current-dependent Pvid | 2.16 W |
| Rated operational current for specified heat dissipation (In) | 10 A |
| Static heat dissipation, non-current-dependent Pvs | OW |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects | Meets the product standard's requirements. |
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| 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. |
| 10.9.2 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 <br> 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 <br> leaflet (IL) is observed. |

## Technical data ETIM 9.0

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@ss13-27-37-04-01 [AGZ529021])

Overload release current setting
Adjustment range undelayed short-circuit release
With thermal overload protection
Phase failure sensitive
Switch off technique
Rated operating voltage
Rated permanent current lu
Rated operation power at AC-3, 230 V
Rated operation power at AC-3, 400 V
Power loss
Type of electrical connection of main circuit
Type of control element
Device construction
With integrated auxiliary switch
With integrated under voltage release
Number of poles
Rated short-circuit breaking capacity Icu at $400 \mathrm{~V}, \mathrm{AC}$
Degree of protection (IP)

| Height | mm | 90 |
| :--- | :---: | :---: | :---: |
| Width | mm | 45 |
| Depth | mm | 93 |

