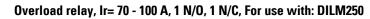
DATASHEET - Z5-100/FF250







Part no.Z5-100/FF250Catalog No.210071Alternate CatalogXTOB100LC1No.EL-Nummer4134168

(Norway)

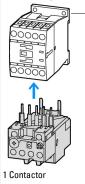
Delivery program

| Product range | | | Overload relay Z5 | | |
|---|-------------------|------------|--|--|--|
| Phase-failure sensitivity | | | IEC/EN 60947, VDE 0660 Part 102 | | |
| Description | | | Test/off button Reset pushbutton manual/auto Trip-free release | | |
| Mounting type | | | Direct mounting Separate mounting | | |
| Setting range | | | | | |
| Overload releases | I _r | А | 70 - 100 | | |
| Contact sequence | | | $\begin{array}{c} 1 & 3 & 5 & 97 & 95 \\ \hline \\ 2 & 4 & 6 & 98 & 96 \end{array}$ | | |
| Auxiliary contacts | | | | | |
| N/O = Normally open | | | 1 N/O | | |
| N/C = Normally closed | | | 1 N/C | | |
| For use with | | | DILM250 | | |
| Short-circuit protection | | | | | |
| Type "1" coordination | gG/gL | A | 315 | | |
| Type "2" coordination | gG/gL | A | 200 | | |
| Notes | | | | | |
| Overload release: tripping class 10 A | | | | | |
| Short-circuit protection: Observe the maximum permissible fuse of the contactor | with direct devic | ce mountin | g. | | |
| Netro | | | | | |

Notes

Fitted directly to the contactor

1



| Technical data | |
|-------------------|--|
| General | |
| Standards | IEC/EN 60947, VDE 0660, UL, CSA |
| Climatic proofing | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |

| Ambient temperature | | | |
|---|------------------|-----------------|--|
| Open | | °C | -25 - +60 |
| Enclosed | | °C | - 25 - 40 |
| Temperature compensation | | | Continuous |
| Weight | | kg | 1.55 |
| Mechanical shock resistance | | g | 10 Sinusoidal Shock duration 10 ms |
| Degree of Protection | | | IP00 |
| Protection against direct contact when actuated from front (EN 50274) | | | With terminal cover |
| Altitude | | m | Max. 2000 |
| Main conducting paths | | | |
| Rated impulse withstand voltage | U _{imp} | V AC | 8000 |
| Overvoltage category/pollution degree | | | 111/3 |
| Rated insulation voltage | Ui | V | 1000 |
| Rated operational voltage | Ue | V AC | 1000 |
| Safe isolation to EN 61140 | | | |
| Between auxiliary contacts and main contacts | | V AC | 500 |
| Between main circuits | | V AC | 500 |
| Temperature compensation residual error > $40^{\circ}C$ | | | ≦ 0.25 %/K |
| Current heat loss (3 conductors) | | | |
| Lower value of the setting range | | W | 10 |
| Maximum setting | | W | 21 |
| Terminal capacities | | mm ² | |
| Flexible with cable lug | | mm ² | 185 |
| Stranded with cable lug | | mm ² | 185 |
| | | | 2/0 - 500 MCM |
| Solid or stranded Busbar | Width | AWG | |
| | vviatn | mm | 25 M10 x 25 |
| Terminal screw | | Ner | M10 x 35 |
| Tightening torque | | Nm | 18 |
| Tools Hexagon head spanner | SW | | 10 |
| Auxiliary and control circuits | 300 | mm | 16 |
| Rated impulse withstand voltage | U _{imp} | V | 4000 |
| Overvoltage category/pollution degree | | | 111/3 |
| Terminal capacities | | mm ² | |
| | | | 1(0.75 4) |
| Solid | | mm ² | 1 x (0.75 - 4) 2 x (0.75 - 4) |
| Flexible with ferrule | | mm ² | 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) |
| Solid or stranded | | AWG | 2 x (18 - 14) |
| Terminal screw | | | M3.5 |
| Tightening torque | | Nm | 1.2 |
| Stripping length | | mm | 8 |
| Tools | | | |
| Pozidriv screwdriver | | Size | 2 |
| Standard screwdriver | | mm | 1×6 |
| Rated insulation voltage | Ui | V AC | 500 |
| Rated operational voltage | U _e | V AC | 500 |
| Safe isolation to EN 61140 | | | |
| between the auxiliary contacts | | V AC | 240 |
| Conventional thermal current | l _{th} | A | 6 |
| Rated operational current | le | A | |
| AC-15 | | | |
| Make contact | | | |
| 120 V | l _e | A | 1.5 |
| | | | |

| 220 V 230 V 240 V | le | А | 1.5 |
|--------------------------------------|----|---------|---|
| 380 V 400 V 415 V | le | А | 0.5 |
| 500 V | le | A | 0.5 |
| Break contact | | | |
| 120 V | le | А | 1.5 |
| 220 V 230 V 240 V | le | А | 1.5 |
| 380 V 400 V 415 V | le | A | 0.9 |
| 500 V | le | A | 0.8 |
| DC L/R ≦ 15 ms | | | |
| | | | Switch-on and switch-off conditions based on DC-13, time constant as specified. |
| 24 V | le | А | 0.9 |
| 60 V | le | А | 0.75 |
| 110 V | le | A | 0.4 |
| 220 V | le | Α | 0.2 |
| Short-circuit rating without welding | | | |
| max. fuse | | A gG/gL | 6 |
| Notes | | | |

Notes

Notes Ambient air temperature: Operating range to IEC/EN 60947

Rating data for approved types

| natiliy uata ior approved types | | |
|---------------------------------|----|--|
| Auxiliary contacts | | |
| Pilot Duty | | |
| AC operated | | B300 at opposite polarity B600 at same polarity |
| DC operated | | R300 |
| Short Circuit Current Rating | SC | CR |
| Basic Rating | | |
| SCCR | kA | 10 |
| max. Fuse | А | 400 Class J |
| max. CB | А | 400 |

Design verification as per IEC/EN 61439

| Rated operational current for specified heat dissipation In A 100 Heat dissipation per pole, current-dependent Pvid V 7.9 Equipment heat dissipation, current-dependent Pvid V 2.37 Static heat dissipation non-current-dependent Pvs V 0 Heat dissipation capacity Pdiss V 0 Operating ambient temperature min. °C 25 Operating ambient temperature max. of °C 60 | | | | |
|--|--|-------------------|----|--|
| Heat dissipation per pole, current-dependent Pvide Wei 7.4 Equipment heat dissipation, current-dependent Pvide Wei 3.37 Static heat dissipation, on-current-dependent Pvide Wei 0 Querating ambient temperature main. Pvides Wei 0 Operating ambient temperature max. °C 36 EUC/NG 1439 design verification °C 30 10.2.2 Corrosion resistance °C 40 10.2.3.1 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Mei Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Meets the product standard's requirements. 10.2.3.1 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Meets the product standard's requirements. 10.2.3.1 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Meets the product standard's requirements. 10.2.3.1 Verification of ASSE | Technical data for design verification | | | |
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| NationNoteNoteNoteStatic heat dissipation, non-current-dependentPosW0Heat dissipation capacityPdissW0Operating ambient temperature max.°C25Operating ambient temperature max.FC0102 Strength of materials and partsM0102 Strength of materials and partsMess the product standard's requirements.102.2 Correstion resistanceMess the product standard's requirements.102.3.1 Verification of tresistance of insulating materials to abnormal heatMess the product standard's requirements.102.3.2 Verification of resistance of insulating materials to abnormal heatMess the product standard's requirements.102.3.3 Verification of resistance of insulating materials to abnormal heatMess the product standard's requirements.102.4 Resistance to ultra-violet (UV) radiationMess the product standard's requirements.102.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.102.7 InscriptionsDoes not apply, since the entire switchgear needs to be evaluated.103.7 Degree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.5 Protection of switching divices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.5 Protection of switching divices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.5 Protection of switching divices and componentsDo | Heat dissipation per pole, current-dependent | P _{vid} | W | 7.9 |
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| | 10.5 Protection against electric shock | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | 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

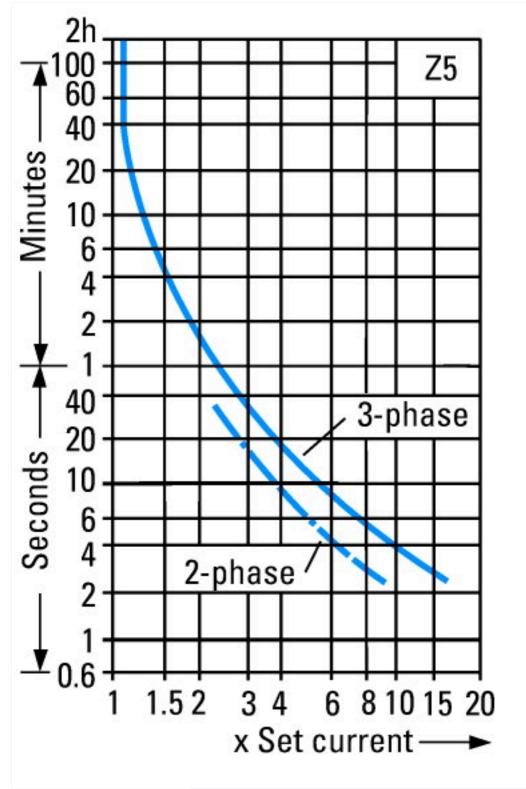
| L | ow-voltage industrial components (EG000017) / Thermal overload relay (EC000106) |
|---|---|
| | |

| Electric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Thermal overload relay (ecl@ss10.0.1-27-37-15-01 [AKF075014]) | | |
|--|---|-------------------|
| Adjustable current range | А | 70 - 100 |
| Max. rated operation voltage Ue | V | 1000 |
| Mounting method | | Direct attachment |
| Type of electrical connection of main circuit | | Screw connection |
| Number of auxiliary contacts as normally closed contact | | 1 |
| Number of auxiliary contacts as normally open contact | | 1 |
| Number of auxiliary contacts as change-over contact | | 0 |
| Release class | | CLASS 10 |
| Reset function input | | No |
| Reset function automatic | | Yes |
| Reset function push-button | | Yes |

Approvals

| Product Standards | IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking |
|--------------------------------------|--|
| UL File No. | E29184 |
| UL Category Control No. | NKCR |
| CSA File No. | 12528 |
| CSA Class No. | 3211-03 |
| North America Certification | UL listed, CSA certified |
| Specially designed for North America | No |
| Suitable for | Branch circuits |
| Max. Voltage Rating | 600 V AC |
| Degree of Protection | IEC: IP00, UL/CSA Type: - |
| | |

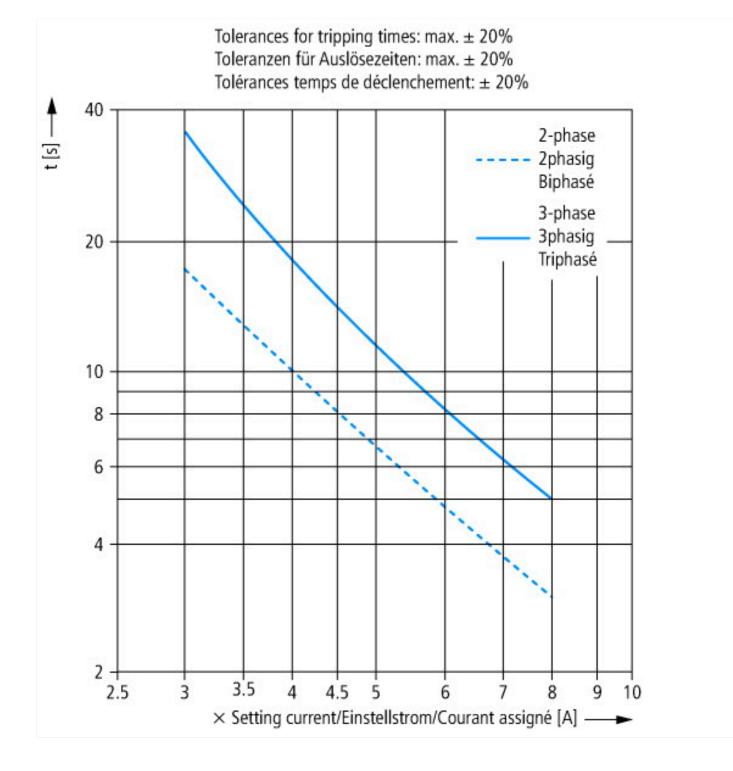




These tripping characteristics are mean values of the spreads at 20 °C ambient air temperature in a cold state.

Tripping time depends on response current.

When the devices are at operational temperature the tripping time of the overload relay falls to approx. 25 % of the read off value.



Dimensions

