

Part no. Article no.

Catalog No.

Overload relay, 35-175A, electronic, 1N/O+1N/C

ZEB225-175 164307 XT0E175HCS



Delivery program

| Donvoly program | | | |
|---------------------------|----------------|---|--|
| Product range | | | Electronic overload relays ZEB |
| Phase-failure sensitivity | | | IEC/EN 60947, VDE 0660 Part 102 |
| Description | | | Test/off button Reset pushbutton Manual/auto reset selectable Protection with heavy starting duty (Class 10A-30) |
| Mounting type | | | Direct mounting |
| Earth-fault protection | | | |
| Earth-fault protection | | | none |
| Setting range | | | |
| Overload releases | I _r | Α | 35 - 175 |
| Contact sequence | | | 97 95 |
| Auxiliary contacts | | | |
| N/O = Normally open | | | 1 N/0 |
| N/C = Normally closed | | | 1 N/C |
| For use with | | | DILM185A DILM225A |

Technical data

General

| | | IEC/EN 60947, VDE 0660, UL, CSA Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
|----------------|-----------------|---|
| | | |
| | | |
| | | |
| | °C | -25 - +65 |
| | °C | 65 |
| | g | 15 Shock duration 10 ms according to IEC 60068-2-27 |
| | | IP00 |
| | | With terminal cover |
| | | |
| U_{imp} | V AC | 6000 |
| | | III/3 |
| Ui | V AC | 690 |
| U _e | V AC | 690 |
| f | Hz | 50/60 |
| | | |
| | V AC | 600 |
| | V AC | 600 |
| | mm ² | |
| | mm^2 | 1 x 10 - 95 |
| | AWG | 1 x 8 - 4/0 |
| | U _i | U _{imp} VAC U _i VAC U _e VAC f Hz VAC VAC wm ² mm ² |

| Flat conductor | Lamellenzahl x Breite x Dicke | mm | 6 x 18 x 0.8 |
|---------------------------------------|-------------------------------------|-----------------|------------------|
| Auxiliary and control circuits | | | |
| Rated impulse withstand voltage | U_{imp} | V | 6000 |
| Overvoltage category/pollution degree | | | III/3 |
| Terminal capacities | | mm^2 | |
| Solid | | mm ² | 2 x (0.75 - 4) |
| Flexible with ferrule | | mm ² | 2 x (0.75 - 2.5) |
| Solid or stranded | | AWG | 2 x (18 - 12) |
| Terminal screw | | | M3.5 |
| Tightening torque | | Nm | 0.8 - 1.2 |
| Tightening torque | | lb-in | 7 |
| Tools | | | |
| Pozidriv screwdriver | | Size | 2 |
| Standard screwdriver | | mm | 1 x 6 |
| Rated insulation voltage | U_{i} | 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 | I _{th} | Α | 5 |
| Rated operational current | le | Α | |
| AC-15 | | | |
| Make contact | | | |
| 120 V | l _e | Α | 1.5 |
| 220 V 230 V 240 V | l _e | Α | 1.5 |
| 380 V 400 V 415 V | Ie | Α | 0.5 |
| 500 V | l _e | Α | 0.5 |
| Break contact | | | |
| 120 V | l _e | Α | 1.5 |
| 220 V 230 V 240 V | I _e | Α | 1.5 |
| 380 V 400 V 415 V | I _e | Α | 0.9 |
| 500 V | l _e | Α | 0.8 |
| DC-13 L/R - 15 ms | | | |
| 24 V | l _e | Α | 0.9 |
| 60 V | l _e | Α | 0.75 |
| 110 V | I _e | Α | 0.4 |
| 220 V | I _e | Α | 0.2 |
| Short-circuit rating without welding | | | |
| max. fuse | | A gG/gL | 6 |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|------------------|----|--|
| Rated operational current for specified heat dissipation | In | Α | 175 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 11.86 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 35.6 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 0 |
| Heat dissipation capacity | P_{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 65 |
| 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. |

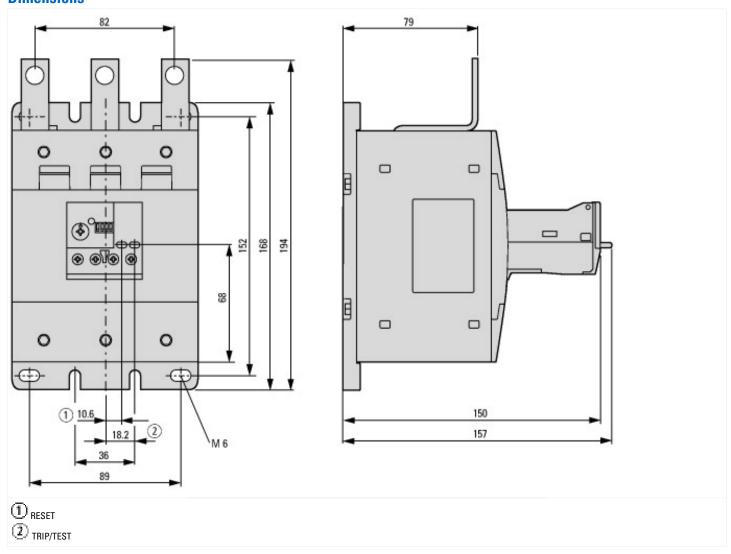
Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Electronic overload relay (EC001080) Electric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Electronic overload relay (ecl@ss8.1-27-37-15-02 [AKF076011]) Α 0 - 175 Adjustable current range Mounting method Direct attachment Screw connection Type of electrical connection of main circuit 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 Rated control supply voltage Us at AC 50HZ 0 - 0 Rated control supply voltage Us at AC 60HZ ٧ 0 - 0 ٧ 0 - 0 Rated control supply voltage Us at DC Release class Adjustable Voltage type for actuating Selfsupplied

Approvals

| Product Standards | UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; CE marking |
|--------------------------------------|--|
| UL File No. | E1230 |
| UL Category Control No. | NKCR |
| CSA File No. | 2290956 |
| 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: IP20, UL/CSA Type: - |

Dimensions



Additional product information (links)

IL04210002E Solid-state motor protection relay

IL04210002E Solid-state motor protection relay ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04210002E2012_06.pdf