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Powering Business Worldwide

ZW7-63 - Ourrent transformer-operated overload relay, 42-63A, 1NO+1NC



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 61439
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000245 ZW7-63

- Qurrent transformer-operated overload relay, 42-63A, 1N/O+1N/CXTOT063C3SAlternate Catalog No.XTOT063C3SEL-Nummer (Norway)4131706
- Current transformer-operated overload relay, Product range: ZW7 current transformer-operated overload relays, Description: Test/off button, Reset pushbutton manual/auto, Trip-free release, Protection with heavy starting duty, Mounting type: Separate mounting, Auxiliary contacts NO = Normally open: 1 NO, Auxiliary contacts NC = Normally closed: 1 NC, Standards: IEC/EN 60947, VDE 0660, UL, CSA, Degree of Protection: IP00

Delivery program

Product range

ZW7 current transformer-operated overload relays Description Test/off button Reset pushbutton manual/auto Trip-free release Protection with heavy starting duty Mounting type Separate mounting **Setting range** Overload releases [[,] 42 - 63 A Contact sequence



Auxiliary contacts N/O = Normally open 1 N/O N/C = Normally closed 1 N/C Notes The main current parameters are defined by the main current wiring which is used.

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 temperatureOpen -25 - +50 °C Ambient temperatureEnclosed - 25 - 40 °C Temperature compensation Continuous Mounting position As required Weight 0.8 kg Mechanical shock resistance 10 Sinusoidal Shock duration 10 ms g Degree of Protection IF00

Protection against direct contact when actuated from front (EN 50274) Finger and back-of-hand proof Altitude Max. 2000 m Main conducting paths Rated impulse withstand voltage [U_{imp}] 8000 V AC Overvoltage category/pollution degree Ⅲ/3 Rated insulation voltage [U] 1000 V Rated operational voltage [Ue] 1000 V AC Safe isolation to EN 61140Between auxiliary contacts and main contacts 440 V AC Safe isolation to EN 61140Between main circuits 440 V AC Short-circuit protection Maximum fuse With overload relay in conjunction with a transformer as required for the contactor Current heat loss (3 conductors)Low er value of the setting range 3 W Current heat loss (3 conductors) Maximum setting 10 W Push-through opening [] 27 mm Auxiliary and control circuits Rated impulse withstand voltage [Ump] 4000 V Overvoltage category/pollution degree III/3 Terminal capacitiesSolid 1 x (0.75 - 4) 2 x (0.75 - 4) mm² Terminal capacities Flexible with ferrule 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) mm² Terminal capacitiesSolid or stranded 2 x (18 - 14) AWG Terminal screw MB.5 Tightening torque 1.2 Nm Stripping length 8 mm ToolsPozidriv screw driver 2 Size ToolsStandard screw driver 1 x 6 mm Rated insulation voltage [U] 500 V AC Rated operational voltage [Ue] 500 V AC Safe isolation to EN 61140between the auxiliary contacts 240 V AC Conventional thermal current [I_{th}] 6 A Rated operational current [la]AC-15Make contact120 V [la] 15A Rated operational current [Ie]AC-15Make contact220 V 230 V 240 V [Ie] 1.5 A Rated operational current [Ie]AC-15Make contact380 V 400 V 415 V [Ie] 0.5 A Rated operational current [Ie]AC-15Wake contact500 V [Ie] 05A Rated operational current [le]AC-15Break contact120 V [le] 1.5 A Rated operational current [le]AC-15Break contact220 V 230 V 240 V [le] 1.5 A Rated operational current [le]AC-15Break contact380 V 400 V 415 V [le] 0.9 A Rated operational current [le]AC-15Break contact500 V [le] 0.8 A Rated operational current [le]DC L/R

15 ms Switch-on and switch-off conditions based on DC-13, time constant as specified. Rated operational current [le] DC L/R - 15 ms24 V [le] 0.9 A Rated operational current [Ie]DC L/R \square 15 ms60 V [Ie] 0.75 A Rated operational current [le]DC L/R
15 ms110 V [le] 0.4 A Rated operational current [le]DC L/R - 15 ms220 V [le] 0.2 A Short-circuit rating without weldingmax. fuse 6 A gG/gL Notes Ambient temperature: Operating range to IEC/EN 60947, PTB: -5°C to +50°C

Terminal capacities Main circuits solid and flexible with ferrule: When connecting 2 conductors, only the following combinations are admissible:

Rated operational current: Making and breaking currents to DC-13, time constant as stated

Short-circuit rating: See transparent overlay "Fuses" for time/current characteristics (Rease enquire)

Rating data for approved types Auxiliary contactsPllot DutyAC operated B300 at opposite polarity B600 at same polarity Auxiliary contactsPllot DutyDC operated R300

Design verification as per IEC/EN 61439

Technical data for design verification Rated operational current for specified heat dissipation [l_n] 63 A Heat dissipation per pole, current-dependent [Pvid] 2 W Equipment heat dissipation, current-dependent [Pid 6 W Static heat dissipation, non-current-dependent [Pvs] 0 W Heat dissipation capacity [Pdiss] 0 W Operating ambient temperature min. -25 °C Operating ambient temperature max. +50 °C 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 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements. 10.2 Strength of materials and parts 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 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. 10.2 Strength of materials and parts 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2 Strength of materials and parts 10.2.6 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 10.2 Strength of materials and parts10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of ASSEVBLIES 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 Pow er-frequency electric strength Is the panel builder's responsibility. 10.9 Insulation properties 10.9.3 Impulse withstand voltage Is the panel builder's responsibility. 10.9 Insulation properties 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 (L) is observed.

Technical data ETIM 7.0

Low-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 42 - 63 A Max. rated operation voltage Ue 690 V Mounting method Separate positioning Type of electrical connection of main circuit Screw connection Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Release class Other Reset function input No Reset function automatic Yes Reset function push-button Yes

Approvals

1

Product Standards UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; 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 Nb Suitable for Branch circuits Max. Voltage Rating 600 V AC Degree of Protection IEC: IF00, UL/CSA Type: -

Characteristics



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These tripping characteristics are mean values of the spread 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 reduces to approx. 25 % of the read off value. Characteristic curve



Dimensions

Reset/on

Permissible mounting positions

IL03407195Z, Sealable shroud

 IL03407195Z, Sealable shroud (PDF)

IL03407124Z, Tripping characteristics

IL03407124Z, Tripping characteristics
 (PDF)

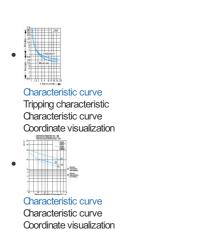
IL04210001Z, Overload relay, Current transformer-operated overload relay

 IL04210001Z, Overload relay, Current transformer-operated overload relay (PDF)

CAD data

- Product-specific CAD data
- (Web) 3D Preview
- (Web)

Characteristic curve



Declaration of Conformity

DA-DC-00003317
 Declaration of Conformity
 (PDF)

Wiring diagram



Contact sequence Qurrent transformer-operated overload relay circuit symbol Wiring diagram Line drawing

3D drawing

2301009 Ourrent transformer-operated overload relay 3D drawing Line drawing

Product photo



Current transformer-operated overload relay Product photo Photo

Dimensions single product

230X032
 Reset/on
 Current transformer-operated overload relay
 Dimensions single product
 Line drawing

230X031 Current transformer-operated overload relay Dimensions single product Line drawing

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