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Powering Business Worldwide ZBT12-6 - Overload relay, ZBT12, Ir=4 - 6 A, 1 N/O, 1 N/C, Direct mounting, IP20



190937 ZBT12-6 Overview Specifications Resources





- Delivery program
- Technical data
- Design verification as per
 IEC/EN 61439
- Technical data ETIM 7.0
- Approvals
- Dimensions

190937 ZBT12-6

Overload relay, ZBT12, Ir=4 - 6 A, 1 N/O, 1 N/C, Direct mounting, IP20 Overload relay, Product range: Overload relay ZBT up to 97 A, Accessories, Accessories: Overload relays, Frame size: ZBT12, 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, Auxiliary contacts N/O = Normally open: 1 N/O, Auxiliary contacts N/C = Normally closed: 1 N/C, For use with: DILMT7, DILMT9, DILMT12, DILMT17, DILMT25, DILMT32, Standards: IEC/EN 60947, GB14048, Degree of Protection: IP20

Delivery program

Product range Overload relay ZBT up to 97 A Product range Accessories Accessories Overload relays Frame size ZBT12 Phase-failure sensitivity IEC/EN 60947, VDE 0660 Part 102 Description Test/off button Reset pushbutton manual/auto Trip-free release Overload trigger: tripping class 10 A Mounting type Direct mounting 亡[ŀ] 4-6A Contact sequence



Auxiliary contacts N/O = Normally open 1 N/O N/C = Normally closed 1 N/C For use with DILMT7 DILMT9 DILMT12 DILMT17 DILMT25 DILMT32

Technical data

General Standards IEC/EN 60947, GB14048 **Climatic proofing** Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Ambient temperature Operating range to IEC/EN 60947: -5 - +40 °C Ambient temperatureOpen -25 - +55 °C Ambient temperatureEnclosed - 25 - 40 °C Temperature compensation Continuous Weight 0.104 kg Mechanical shock resistance 10 Sinusoidal Shock duration 10 ms g Degree of Protection IP20 Protection against direct contact when actuated from front (EN 50274) Finger and back-of-hand proof Main conducting paths Rated impulse withstand voltage [Uim] 6000 V AC Overvoltage category/pollution degree Ⅲ/3 Rated insulation voltage [U] 690 V Rated operational voltage [Ue] 690 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 Terminal capacitiesSolid 1 x (1 - 6) mm² Terminal capacities Flexible with ferrule 1 x (1 - 6) mm² Terminal capacitiesStranded 1 x (1 - 6) mm² Terminal screw MB.5 Tightening torque 1.2 Nm Stripping length 8 mm ToolsPozidriv screw driver

2 Size Auxiliary and control circuits Rated impulse withstand voltage [U_{mp}] 4000 V Overvoltage category/pollution degree III/3 Terminal capacitiesSolid 1 x (0.75 - 2.5) mm² Terminal capacities Flexible with ferrule 1 x (0.75 - 2.5) mm² Terminal screw MB Tightening torque 0.8 Nm Stripping length 6 mm ToolsPozidriv screw driver 2 Size ToolsStandard screw driver 1 x 6 mm Rated insulation voltage [U] 690 V AC Rated operational voltage [U_e] 690 V AC Conventional thermal current [Ith] 10 A Rated operational current [le]AC-15Make contact120 V [le] 1.5 A Rated operational current [le]AC-15Vake contact220 V 230 V 240 V [le] 1.4 A Rated operational current [le]AC-15Vake contact380 V 400 V 415 V [le] 1.9 A Rated operational current [le]AC-15Make contact500 V [le] 0.5 A 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] 1.9 A Rated operational current [le]AC-15Break contact500 V [le] 1.4 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 [Ie]DC L/R \square 15 ms24 V [Ie] 0.9 A Rated operational current [le]DC L/R

15 ms60 V [le] 0.75 A Rated operational current [le]DC L/R 🗆 15 ms110 V [le] 0.55 A Rated operational current [le]DC L/R 🗆 15 ms220 V [le] 0.27 A Short-circuit rating without weldingmax. fuse 6 A gG/gL Notes Notes Ambient air temperature: Operating range to IEC/EN 60947, PTB: -5°C to +55°C Main circuits terminal capacity solid and flexible conductors with ferrules: When using 2 conductors use equal crosssections

Design verification as per IEC/EN 61439

Operating ambient temperature min. -25 °C Operating ambient temperature max. +55 °C

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 4-6A Max. rated operation voltage Ue 690 V 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 Other Reset function input No Reset function automatic Yes Reset function push-button Yes

Approvals

Specially designed for North America No

Dimensions

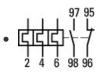


Product photo



Product photo Photo

Wiring diagram



Contact sequence Wiring diagram Line drawing Overload relay circuit symbol

3D drawing



3D drawing Line drawing

Dimensions single product



Dimensions single product Line drawing

Declaration of Conformity

DA-DC-00002909
 Declaration of Conformity
 (PDF)

Standards

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Standards
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CAD data

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