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Worldwide English



Powering Business Worldwide

ZBT12-10 - Overload relay, ZBT12, Ir= 6 - 10 A, 1 NO, 1 NC, Direct mounting, IP20



190938 ZBT12-10

Overview Specifications Resources



190938 ZBT12-10

Overload relay, ZBT12, Ir= 6 - 10 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: DILMIT9, DILMIT12, DILMIT17, DILMIT25, DILMIT32, Standards: IEC/EN 60947, GB14048, Degree of Protection: IP20

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

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

中[4]

6 - 10 A

Contact sequence



Auxiliary contacts

N/O = Normally open

1 NO

NC = 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 temperature Enclosed

- 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 fromfront (EN 50274)

Finger and back-of-hand proof

Main conducting paths

Rated impulse withstand voltage [U_{imp}]

6000 V AC

Overvoltage category/pollution degree

111/3

Rated insulation voltage [U]

690 V

Rated operational voltage [U_e]

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 capacities Solid

1 x (1 - 6) mm²

Terminal capacities Flexible with ferrule

1 x (1 - 6) mm²

Terminal capacitiesStranded

1 x (1 - 6) mm²

Terminal screw

M3.5

Tightening torque

1.2 Nm

Stripping length

8 mm

ToolsPozidriv screwdriver

2 Size Auxiliary and control circuits Rated impulse withstand voltage [U_{mp}] Overvoltage category/pollution degree Terminal capacities Solid 1 x (0.75 - 2.5) mm² Terminal capacities Flexible with ferrule 1 x (0.75 - 2.5) mm² Terminal screw Tightening torque 0.8 Nm Stripping length 6 mm ToolsPozidriv screwdriver ToolsStandard screwdriver 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 contact 120 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-15Make contact380 V 400 V 415 V [le] 1.9 A Rated operational current [l_e]AC-15Make contact500 V [l_e] 0.5ARated 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 \square 15 ms Switch-on and switch-off conditions based on DC-13, time constant as specified. Rated operational current [le]DC L/R \square 15 ms24 V [le] 0.9 A Rated operational current [l_e]DC L/R □ 15 ms60 V [l_e]

0.75 A

Rated operational current [Ie]DC L/R \square 15 ms110 V [Ie]

0.55 A

Rated operational current [Ie]DC L/R \square 15 ms220 V [Ie]

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 cross-

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)

Bectric 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

6-10A

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

Λ

Release class

Other

Reset function input

No

Reset function automatic

Yes

Reset function push-button

Yes

Approvals

Specially designed for North America

No

Dimensions

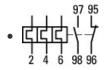




Product photo



Wiring diagram



230S002

Line drawing

Overload relay circuit symbol

3D drawing



Dimensions single product



Declaration of Conformity

EU

 Eaton-AC Contactors; Control Relay; Auxiliary Contact (DA-DC-00003681)
 Asset (PDF)

Standards

• XStart
000Z153
Logo
xStart logo

CAD data

edz files

DA-CE-ETN.ZBT12-10 File (Web)

Download-Center

Download-Center (this item)
 Eaton EVEA Download-Center - download data for this item

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