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Worldwide English



ZBT12-12 - Overload relay, ZBT12, Ir=9 - 12 A, 1 N/O, 1 N/C, Direct mounting, IP20



190939 ZBT12-12

Overview Specifications Resources



190939 ZBT12-12

Overload relay, ZBT12, Ir= 9 - 12 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, V/DE 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: DILMIT7, 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

古[4]

9-12A

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

9-12A

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

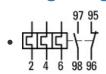




Product photo



Wiring diagram



230S002

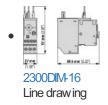
Line drawing

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

• <u>xStart</u> 000Z153 Logo xStart logo

CAD data

edz files

• DA-CE-ETN.ZBT12-12 File (Web)

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