ZBT12-0,16 - Overload relay, ZBT12, Ir= 0.1 - 0.16 A, 1 N/O, 1 N/C, Direct mounting, IP20

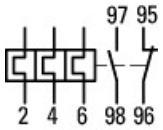
190959 ZBT12-0,16

190959 ZBT12-0,16

Overload relay, ZBT12, Ir= 0.1 - 0.16 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
[Ir]
0.1 - 0.16 A
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 [U_{imp}]
6000 V AC
Overvoltage category/pollution degree
III/3
Rated insulation voltage [U_i]
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 capacitiesSolid
1 x (1 - 6) mm^2
Terminal capacitiesFlexible with ferrule
1 x (1 - 6) mm^2
Terminal capacitiesStranded
1 x (1 - 6) mm^2
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_{imp}]
4000 V
Overvoltage category/pollution degree
III/3
Terminal capacities Solid
1 x (0.75 - 2.5) mm²
Terminal capacities Flexible with ferrule
1 x (0.75 - 2.5) mm²
Terminal screw
M3
Tightening torque
0.8 Nm
Stripping length
6 mm
Tools Pozidriv screwdriver
2 Size
Tools Standard screwdriver
1 x 6 mm
Rated insulation voltage [U_i]
690 V AC
Rated operational voltage [U_e]
690 V AC
Conventional thermal current [I_{th}]
10 A
Rated operational current [I_e] AC-15 Make contact 120 V [I_e]
1.5 A
Rated operational current [I_e] AC-15 Make contact 220 V 230 V 240 V [I_e]
1.4 A
Rated operational current [I_e] AC-15 Make contact 380 V 400 V 415 V [I_e]
1.9 A
Rated operational current [I_e] AC-15 Make contact 500 V [I_e]
0.5 A
Rated operational current [I_e] AC-15 Break contact 120 V [I_e]
1.5 A
Rated operational current [I_e] AC-15 Break contact 220 V 230 V 240 V [I_e]
1.5 A
Rated operational current [I_e] AC-15 Break contact 380 V 400 V 415 V [I_e]
1.9 A
Rated operational current [I_e] AC-15 Break contact 500 V [I_e]
1.4 A
Rated operational current [I_e] DC L/R □ 15 ms
Switch-on and switch-off conditions based on DC-13, time constant as specified.
Rated operational current [I_e] DC L/R □ 15 ms 24 V [I_e]
0.9 A
Rated operational current [I_e] DC L/R □ 15 ms 60 V [I_e]
0.75 A
Rated operational current [I_e] DC L/R □ 15 ms 110 V [I_e]
0.55 A
Rated operational current [I_e] DC L/R □ 15 ms 220 V [I_e]
0.27 A
Short-circuit rating without welding max. 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-sections.

Design verification as per IEC/EN 61439

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

Technical data ETIM 7.0

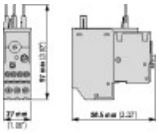
Low-voltage industrial components (EG000017) / Thermal overload relay (EC000106)

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
0.1 - 0.16 A
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

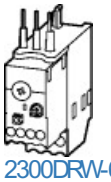
Approvals

Specially designed for North America
No

Dimensions



3D drawing

- 

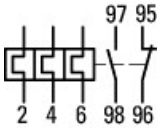
2300DRW-61
Line drawing

Product photo

- 

2300PIC-17
Photo

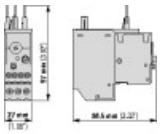
Wiring diagram

- 

230S002
Line drawing
Overload relay circuit symbol

Dimensions single product

Dimensions single product

- 
  2300DIM-16
  Line drawing

Standards

- 000Z153
  Logo
  xStart logo

Declaration of Conformity

EU

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

Instruction Leaflet

- ZBT12, ZBT32 Overload relay (IL026002ZU)
  Asset
  Internal packing pressure for overload relays up to 32 A
  (PDF, 03/2018, multilingual)

CAD data

edz files

- DA-CE-ETN.ZBT12-0,16
  File
  (Web)

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