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ZBT32-32 - Overload relay, ZBT32, Ir= 24 - 32 A, 1 N/O, 1 N/C, Direct mounting, IP20

190942 ZBT32-32

**Overview Specifications Resources**

# 190942 ZBT32-32

Overload relay, ZBT32, Ir= 24 - 32 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: ZBT32, 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: DILMT17, DILMT25, DILMT32, 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
ZBT32
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
⊏⊐ [Iↄ]
24 - 32 A
Contact sequence
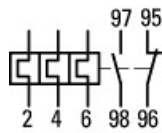
Auxiliary contacts
N/O = Normally open
1 N/O
N/C = Normally closed
1 N/C
For use with
DILMT17
DILMT25
DILMT32

# 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
0.114 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 capacitiesSolid

1 x (0.75 - 2.5) mm²

Terminal capacitiesFlexible with ferrule

1 x (0.75 - 2.5) mm²

Terminal screw

M3.5

Tightening torque

0.8 Nm

Stripping length

6 mm

ToolsPozidriv screwdriver

2 Size

ToolsStandard 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-15Make contact120 V [$I_e$]

1.5 A

Rated operational current [$I_e$]AC-15Make contact220 V 230 V 240 V [$I_e$]

1.4 A

Rated operational current [$I_e$]AC-15Make contact380 V 400 V 415 V [$I_e$]

1.9 A

Rated operational current [$I_e$]AC-15Make contact500 V [$I_e$]

0.5 A

Rated operational current [$I_e$]AC-15Break contact120 V [$I_e$]

1.5 A

Rated operational current [$I_e$]AC-15Break contact220 V 230 V 240 V [$I_e$]

1.5 A

Rated operational current [$I_e$]AC-15Break contact380 V 400 V 415 V [$I_e$]

1.9 A

Rated operational current [$I_e$]AC-15Break contact500 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 ms24 V [$I_e$]

0.9 A

Rated operational current [$I_e$]DC L/R □ 15 ms60 V [$I_e$]

0.75 A

Rated operational current [$I_e$]DC L/R □ 15 ms110 V [$I_e$]

0.55 A

Rated operational current [$I_e$]DC L/R □ 15 ms220 V [$I_e$]

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 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

24 - 32 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

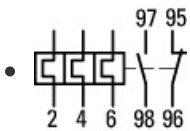Specially designed for North America
No

## Dimensions
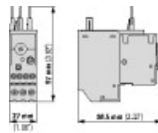


# Product photo
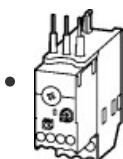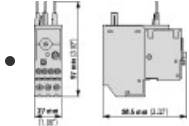
- 

  Photo
  Product photo
  Photo

# Wiring diagram

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  Contact sequence
  Wiring diagram
  Line drawing
  Overload relay circuit symbol

# 3D drawing

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  2300DRW-61
  3D drawing
  Line drawing

Dimensions single product

# Dimensions single product



[2300DIM-16](#)
Dimensions single product
Line drawing

# Declaration of Conformity

- [DA-DC-00002909](#)
  Declaration of Conformity
  (PDF)

# Standards

- ☐
  [000Z153](#)
  Standards
  Logo
  xStart logo

# CAD data

- [DA-CE-ETN.ZBT32-32](#)
  CAD data
  edz files
  (Web)

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