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Powering Business Worldwide

ZBT95-80 - Overload relay, ZBT95, Ir= 63 - 80 A, 1 N/O, 1 N/C, Direct mounting, IP20



190950 ZBT95-80

[Overview](#) [Specifications](#) [Resources](#)



## 190950 ZBT95-80

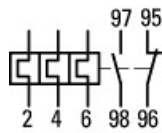
Overload relay, ZBT95, Ir= 63 - 80 A, 1 N/O, 1 N/C, Direct mounting, IP20

Overload relay, Product range: Overload relay ZBT up to 97 A, Accessories, Accessories: Overload relays, Frame size: ZBT95, 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: DILMT65, DILMT80, DILMT95, Standards: IEC/EN 60947, GB14048, Degree of Protection: IP20

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### Delivery program

Product range  
Overload relay ZBT up to 97 A  
Product range  
Accessories  
Accessories  
Overload relays  
Frame size  
ZBT95  
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  
 [4]  
63 - 80 A  
Contact sequence



Auxiliary contacts

NO = Normally open

1 NO

NC = Normally closed

1 NC

For use with

DILMT65

DILMT80

DILMT95

## 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 temperature Open

-25 - +55 °C

Ambient temperature Enclosed

-25 - 40 °C

Temperature compensation

Continuous

Weight

0.352 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 61140 Between auxiliary contacts and main contacts

440 V AC

Safe isolation to EN 61140 Between main circuits

440 V AC

Terminal capacities Solid

1 x (2.5 - 16)

2 x (2.5 - 16) mm<sup>2</sup>

Terminal capacities Flexible with ferrule

1 x (2.5 - 16)

2 x (2.5 - 16) mm<sup>2</sup>

Tightening torque

2.5 Nm

Stripping length

14 mm

Tools Pozidriv screw driver

0 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) mm<sup>2</sup>

Terminal capacitiesFlexible with ferrule

1 x (0.75 - 2.5) mm<sup>2</sup>

Tightening torque

0.8 Nm

Stripping length

0 mm

ToolsPozidriv screw driver

2 Size

ToolsStandard screw driver

1 x 6 mm

Rated insulation voltage [U<sub>i</sub>]

690 V AC

Rated operational voltage [U<sub>e</sub>]

690 V AC

Conventional thermal current [I<sub>th</sub>]

10 A

Rated operational current [I<sub>e</sub>]AC-15Make contact120 V [I<sub>e</sub>]

1.5 A

Rated operational current [I<sub>e</sub>]AC-15Make contact220 V 230 V 240 V [I<sub>e</sub>]

1.4 A

Rated operational current [I<sub>e</sub>]AC-15Make contact380 V 400 V 415 V [I<sub>e</sub>]

1.9 A

Rated operational current [I<sub>e</sub>]AC-15Make contact500 V [I<sub>e</sub>]

0.5 A

Rated operational current [I<sub>e</sub>]AC-15Break contact120 V [I<sub>e</sub>]

1.5 A

Rated operational current [I<sub>e</sub>]AC-15Break contact220 V 230 V 240 V [I<sub>e</sub>]

1.5 A

Rated operational current [I<sub>e</sub>]AC-15Break contact380 V 400 V 415 V [I<sub>e</sub>]

1.9 A

Rated operational current [I<sub>e</sub>]AC-15Break contact500 V [I<sub>e</sub>]

1.4 A

Rated operational current [I<sub>e</sub>]DC L/R □ 15 ms

Switch-on and switch-off conditions based on DC-13, time constant as specified.

Rated operational current [I<sub>e</sub>]DC L/R □ 15 ms24 V [I<sub>e</sub>]

0.9 A

Rated operational current [I<sub>e</sub>]DC L/R □ 15 ms60 V [I<sub>e</sub>]

0.75 A

Rated operational current [I<sub>e</sub>]DC L/R □ 15 ms110 V [I<sub>e</sub>]

0.55 A

Rated operational current [I<sub>e</sub>]DC L/R □ 15 ms220 V [I<sub>e</sub>]

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

63 - 80 A

Max. rated operation voltage U<sub>e</sub>

690 V

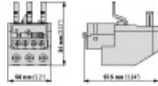
Mounting method

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

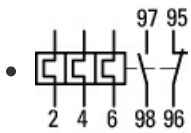


## Product photo



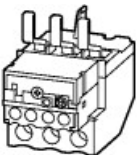
2300PIC-19  
 Photo

## Wiring diagram



230S002  
 Line drawing  
 Overload relay circuit symbol

## 3D drawing



2300DRW-62  
 Line drawing

## Dimensions single product



2300DIM-17  
 Line drawing

# 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.ZBT95-80](#)  
File  
(Web)

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