



190951
ZBT95-97



Overview



Specifications



Resources



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DELIVERY PROGRAM

Product range
Overload relay ZBT up to 97 A

Product range
Accessories

Accessories
Overload relays

Frame size
ZBT95

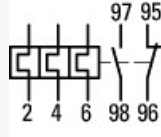
Phase-failure sensitivity
IEC/EN 60947, VDE 0660 Part 102

Description
Test/off button
Reset pushbutton manual/auto
Trip-free release
Overload trigger: tripping class 10 A

Mounting type
Direct mounting

 [r]
77 - 97 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) mm²

Terminal capacities

Flexible with ferrule

1 x (2.5 - 16)

2 x (2.5 - 16) mm²

Tightening torque

2.5 Nm

Stripping length

14 mm

Tools

Pozidriv screwdriver

0 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

Tightening torque

0.8 Nm

Stripping length

0 mm

Tools

Pozidriv screwdriver

2 Size

Tools
Standard screw driver
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 \square 15 ms
Switch-on and switch-off conditions based on
DC-13, time constant as specified.

Rated operational current [I_e]
DC L/R \square 15 ms
24 V [I_e]
0.9 A

Rated operational current [I_e]
DC L/R \square 15 ms
60 V [I_e]
0.75 A

Rated operational current [I_e]
DC L/R \square 15 ms
110 V [I_e]
0.55 A

Rated operational current [I_e]
DC L/R \square 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
77 - 97 A

Max. rated operation voltage U_e
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

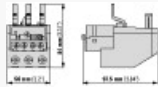
Reset function automatic
Yes

Reset function push-button
Yes

APPROVALS

Specially designed for North America
No

DIMENSIONS





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