Spécifications

Eaton 014432

Catalog Number: 014432

Eaton Moeller® series ZE Overload relay, Ir= 1 - 1.6 A, 1 N/O, 1 N/C, Direct mounting



La photo est représentative

Spécifications générales

Product Name
Eaton Moeller® series ZE Thermal overload relay

Catalog Number
014432

Model Code
ZE-1,6

EAN
4015080144328

Product Length/Depth
52 mm

Product Height
65 mm

Product Width
45 mm

Product Weight
0.075 kg

Certifications
CSA-C22.2 No. 14
UL
IEC/EN 60947-4-1
UL Category Control No.: NKCR
CSA Class No.: 3211-03
IEC/EN 60947
UL 508
CSA
CSA File No.: 012528
CE
IEC/EN 60947-5-1
UL File No.: E29184
VDE 0660

Powering Business Worldwide

Features & Functions

Features

Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102)
Reset pushbutton manual/auto
Trip-free release
Test/off button

General

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

50 °C

Ambient operating temperature (enclosed) - min

-25 °C

Ambient operating temperature (enclosed) - max

40 °C

Class

CLASS 10 A

Climatic proofing

Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30

Degree of protection

IP20

Mounting method

Direct mounting
Direct attachment

Overload release current setting - min

1 A

Overload release current setting - max

1.6 A

Overvoltage category

III

Pollution degree

3

Product category

ZE overload relays for mini contactor relays

Protection

Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)

Rated impulse withstand voltage (Uimp)

4000 V (auxiliary and control circuits)
6000 V AC

Shock resistance

10 g, Mechanical, Sinusoidal, Shock duration 10 ms

Suitable for

Branch circuits, (UL/CSA)

Temperature compensation

≤ 0.25 %/K, residual error for T > 40°

Continuous

Terminal capacities

Terminal capacity (flexible with ferrule)

2 x (0.5 - 1.5) mm², Main cables

1 x (0.5 - 1.5) mm², Control circuit cables

1 x (0.5 - 1.5) mm², Main cables

Terminal capacity (solid)

1 x (0.75 - 2.5) mm², Main cables

1 x (0.75 - 2.5) mm², Control circuit cables

2 x (0.75 - 2.5) mm², Control circuit cables

Terminal capacity (solid/stranded AWG)

18 - 14, Main cables

2 x (18 - 12), Control circuit cables

Stripping length (main cable)

8 mm

Stripping length (control circuit cable)

8 mm

Screw size

M3.5, Terminal screw

Screwdriver size

2, Terminal screw, Pozidriv screwdriver

0.8 x 5.5 mm, Terminal screw, Standard screwdriver

Electrical rating

Conventional thermal current ith of auxiliary contacts (1-pole, open)

6 A

Rated operational current (Ie) at AC-15, 120 V

1.5 A

Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V

1.5 A

Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V

0.7 A

Rated operational current (Ie) at AC-15, 500 V

0.5 A

Rated operational current (Ie) at DC-13, 110 V

0.4 A

Rated operational current (Ie) at DC-13, 220 V, 230 V

0.2 A

Short-circuit rating

Short-circuit current rating (basic rating)

5 kA, SCCR (UL/CSA)

6 A, max. Fuse, SCCR (UL/CSA)

15 A, max. CB, CB for max. 480 V, SCCR (UL/CSA)

Short-circuit protection rating

6 A gG/gL, Fuse, Type “2” coordination

20 A gG/gL, Fuse, Type “1” coordination

Max. 4 A gG/gL, Fuse, Auxiliary contacts

Contacts

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

1

Rated operational current (Ie) at DC-13, 24 V

0.9 A

Rated operational current (Ie) at DC-13, 60 V

0.75 A

Rated operational voltage (Ue) - max

690 V

Safe isolation

250 V AC, Between auxiliary contacts, According to EN 61140

300 V AC, Between auxiliary contacts and main contacts, According to EN 61140

300 V AC, Between main circuits, According to EN 61140

Switching capacity (auxiliary contacts, general use)

0.6 A, 600V AC, (UL/CSA)

1.5 A, 240V AC, (UL/CSA)

Switching capacity (auxiliary contacts, pilot duty)

D300, AC operated (UL/CSA)

R300, DC operated (UL/CSA)

Number of auxiliary contacts (normally open contacts)

1

Number of contacts (normally closed contacts)

1

Number of contacts (normally open contacts)

1

Design verification

Equipment heat dissipation, current-dependent Pvid

5.1 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

1.7 W

Rated operational current for specified heat dissipation (In)

1.6 A

Static heat dissipation, non-current-dependent Pvs

0 W

10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be

evaluated.

10.4 Clearances and creepage distances

Meets the product standard's requirements.

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

10.8 Connections for external conductors

Is the panel builder's responsibility.

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Ressources

Catalogues

Characteristic curve

230U036

230U006

Declarations of conformity

DA-DC-00004839.pdf

DA-DC-00004328.pdf

DA-DC-00004858.pdf

eCAD model

ETN.ZE-1,6

Guide utilisateur

Instructions d'installation

IL03407007Z

mCAD model

DA-CS-ze

eaton-cadenas-front_view-ze_front.pra

eaton-cadenas-side_view-ze_side.pra

eaton-cadenas-path-01-geo-ze.3db

DA-CD-ze

Schémas

230X001

2310DIM-11

Schémas électriques

000S015

230S002

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