Product specifications

Eaton 014479

Photo is representative

Catalog Number: 014479

Eaton Moeller® series ZE Overload relay, Ir= 1.6 - 2.4 A, 1 N/O, 1 N/C, Direct mounting

General specifications

Product Name
Eaton Moeller® series ZE Thermal overload relay

Catalog Number
014479

Model Code
ZE-2,4

EAN
4015080144793

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

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Features

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

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.

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

Resources

Catalogs

Product Range Catalog Switching and protecting motors

eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf

Certification reports

DA-DC-00004328.pdf

Characteristic curve

eaton-tripping-ze-overload-relay-characteristic-curve-007.eps

eaton-tripping-ze-overload-relay-characteristic-curve.eps

Declarations of conformity

DA-DC-00004839.pdf

DA-DC-00004858.pdf

Drawings

eaton-tripping-devices-overload-relay-ze-overload-relay-dimensions.eps

eaton-tripping-devices-ze-overload-relay-dimensions.eps

eCAD model

ETN.ZE-2,4

Installation instructions

IL03407007Z

Manuals and user guides

eaton-motor-protective-relay-ze-overload-monitoring-exe-manual-mn03407003z-de-de-en-us.pdf

mCAD model

DA-CD-ze

DA-CS-ze

Wiring diagrams

eaton-tripping-devices-overload-relay-zb-overload-relay-wiring-diagram.eps

eaton-general-release-zeb-overload-relay-wiring-diagram.eps

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.

Pollution degree

3

Class

CLASS 10 A

Climatic proofing

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

Rated impulse withstand voltage (Uimp)

6000 V AC
4000 V (auxiliary and control circuits)

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

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 current for specified heat dissipation (In)

2.4 A

Static heat dissipation, non-current-dependent Pvs

0 W

Stripping length (control circuit cable)

8 mm

Stripping length (main cable)

8 mm

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)

Adjustable current range - max

2.4 A

Adjustable current range - min

1.6 A

Ambient operating temperature - max

50 °C

Ambient operating temperature - min

-25 °C

Ambient operating temperature (enclosed) - max

40 °C

Ambient operating temperature (enclosed) - min

-25 °C

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

6 A

Equipment heat dissipation, current-dependent Pvid

4.8 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

1.6 W

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

1

Number of auxiliary contacts (normally open contacts)

1

Number of contacts (normally closed contacts)

1

Number of contacts (normally open contacts)

1

Overload release current setting - max

2.4 A

Overload release current setting - min

1.6 A

Rated operational voltage (Ue) - max

690 V

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

1.5 A

Electrical connection type of main circuit

Screw connection

Reset function

Automatic

Push-button

Screwdriver size

0.8 x 5.5 mm, Terminal screw, Standard screwdriver

2, Terminal screw, Pozidriv screwdriver

Mounting method

Direct attachment

Direct mounting

Degree of protection

IP20

Overvoltage category

III

Safe isolation

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

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

300 V AC, Between auxiliary contacts and main contacts,

According to EN 61140

Screw size

M3.5, Terminal screw

Shock resistance

10 g, Mechanical, Sinusoidal, Shock duration 10 ms

Short-circuit current rating (basic rating)

5 kA, SCCR (UL/CSA)

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

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

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)

R300, DC operated (UL/CSA)

D300, AC operated (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

Suitable for

Branch circuits, (UL/CSA)

Temperature compensation

Continuous

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

Terminal capacity (flexible with ferrule)

1 x (0.5 - 1.5) mm², Main cables

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

2 x (0.5 - 1.5) mm², Main cables

Terminal capacity (solid)

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

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

1 x (0.75 - 2.5) mm², Main cables

Terminal capacity (solid/stranded AWG)

18 - 14, Main cables

2 x (18 - 12), Control circuit cables

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