

Eaton 014333

Catalog Number: 014333

Eaton Moeller® series ZE Overload relay, Ir= 0.4 - 0.6 A, 1 N/O, 1 N/C, Direct mounting

General specifications



Product Name

Eaton Moeller® series ZE Thermal
overload relay

Catalog Number

014333

Model Code

ZE-0,6

EAN

4015080143338

Product Length/Depth

52 mm

Product Height

65 mm

Product Width

45 mm

Product Weight

0.075 kg

Certifications

VDE 0660

CSA File No.: 012528

UL

CE

IEC/EN 60947-4-1

CSA-C22.2 No. 14

UL 508

IEC/EN 60947

IEC/EN 60947-5-1

UL Category Control No.: NKCR

UL File No.: E29184

CSA

CSA Class No.: 3211-03

Product specifications

Features

Test/off button

Trip-free release

Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102)

Reset pushbutton manual/auto

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.

10.2.3.1 Verification of thermal stability of enclosures

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.

Resources

Catalogs

Product Range Catalog Switching and protecting motors

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

Characteristic curve

[eaton-tripping-ze-overload-relay-characteristic-curve.eps](#)
230U034

Declarations of conformity

[DA-DC-00004317.pdf](#)

[DA-DC-00004328.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-0,6](#)

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](#)

Specifications and datasheets

[Eaton Specification Sheet - 014333](#)

Wiring diagrams

[eaton-tripping-devices-overload-relay-zb-overload-relay-wiring-diagram.eps](#)

[eaton-general-release-zeb-overload-relay-wiring-diagram.eps](#)

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.

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

Pollution degree

3

Class

CLASS 10 A

Climatic proofing

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

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

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 (I_e) at DC-13, 220 V, 230 V

0.2 A

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

0.9 A

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

0.75 A

Rated operational current for specified heat dissipation (I_n)

0.6 A

Static heat dissipation, non-current-dependent P_{vs}

0 W

Stripping length (control circuit cable)

8 mm

Stripping length (main cable)

8 mm

Voltage rating - max

600 VAC

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

0.6 A

Adjustable current range - min

0.4 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 I_{th} of auxiliary contacts (1-pole,
open)

6 A

Equipment heat dissipation, current-dependent P_{vid}

4.8 W

Heat dissipation capacity P_{diss}

0 W

Heat dissipation per pole, current-dependent P_{vid}

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

0.6 A

Overload release current setting - min

0.4 A

Rated operational voltage (U_e) - max

690 V

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

1.5 A

Electrical connection type of main circuit

Screw connection

Reset function

Automatic

Push-button

Screwdriver size

2, Terminal screw, Pozidriv screwdriver

0.8 x 5.5 mm, Terminal screw, Standard screwdriver

Mounting method

Direct attachment

Direct mounting

Degree of protection

IP20

Overvoltage category

III

Safe isolation

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

250 V AC, Between auxiliary contacts, 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)

1 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

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

20 A gG/gL, Fuse, Type "1" coordination

2 A gG/gL, Fuse, Type "2" coordination

Suitable for

Branch circuits, (UL/CSA)

Temperature compensation

Continuous

$\leq 0.25\text{ \%}/\text{K}$, residual error for $T > 40^\circ$

Terminal capacity (flexible with ferrule)

1 x (0.5 - 1.5) mm², Main cables

2 x (0.5 - 1.5) mm², Main cables

1 x (0.5 - 1.5) mm², Control circuit 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

Tightening torque

1.2 Nm, Screw terminals



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