

# 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

### EAN

4015080143338

### Product Height

65 mm

### Product Weight

0.075 kg

### Catalog Number

014333

### Model Code

ZE-0,6

### Product Length/Depth

52 mm

### Product Width

45 mm

### 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

## 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.

## Catalogs

Product Range Catalog Switching and protecting motors

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

## Certification reports

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

[DA-DC-00004328.pdf](#)

## Characteristic curve

230U034

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

## Declarations of conformity

[DA-DC-00004858.pdf](#)

## Drawings

[eaton-tripping-devices-ze-overload-relay-dimensions.eps](#)

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

[eaton-tripping-devices-overload-relay-zb-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 (U<sub>imp</sub>)

6000 V AC

4000 V (auxiliary and control circuits)

### Rated operational current (I<sub>e</sub>) at AC-15, 220 V, 230 V, 240 V

1.5 A

### Rated operational current (I<sub>e</sub>) at AC-15, 380 V, 400 V, 415 V

0.7 A

### Rated operational current (I<sub>e</sub>) at AC-15, 500 V

0.5 A

### Rated operational current (I<sub>e</sub>) at DC-13, 110 V

0.4 A

Rated operational current (I<sub>e</sub>) at DC-13, 220 V, 230 V

0.2 A

Rated operational current (I<sub>e</sub>) at DC-13, 24 V

0.9 A

Rated operational current (I<sub>e</sub>) at DC-13, 60 V

0.75 A

Rated operational current for specified heat dissipation (I<sub>n</sub>)

0.6 A

Static heat dissipation, non-current-dependent P<sub>vs</sub>

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<sub>th</sub> of auxiliary contacts (1-pole, open)

6 A

Equipment heat dissipation, current-dependent P<sub>vid</sub>

4.8 W

Heat dissipation capacity P<sub>diss</sub>

0 W

Heat dissipation per pole, current-dependent P<sub>vid</sub>

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<sub>e</sub>) - max

690 V

Rated operational current (I<sub>e</sub>) 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

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

### Terminal capacity (flexible with ferrule)

1 x (0.5 - 1.5) mm<sup>2</sup>, Main cables

2 x (0.5 - 1.5) mm<sup>2</sup>, Main cables

1 x (0.5 - 1.5) mm<sup>2</sup>, Control circuit cables

### Terminal capacity (solid)

2 x (0.75 - 2.5) mm<sup>2</sup>, Control circuit cables

1 x (0.75 - 2.5) mm<sup>2</sup>, Control circuit cables

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