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## Eaton 014285

Eaton Moeller® series ZE Overload relay, Ir= 0.16 - 0.24 A, 1 N/O, 1 N/C, Direct mounting

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<b>PRODUCT NAME</b>	Eaton Moeller® series ZE Thermal overload relay
<b>CATALOG NUMBER</b>	014285
<b>PRODUCT LENGTH/DEPTH</b>	52 mm
<b>PRODUCT HEIGHT</b>	65 mm
<b>PRODUCT WIDTH</b>	45 mm
<b>PRODUCT WEIGHT</b>	0.075 kg
<b>CERTIFICATIONS</b>	CE UL 508 UL File No.: E29184 IEC/EN 60947-4-1 CSA CSA Class No.: 3211-03 IEC/EN 60947 VDE 0660 CSA-C22.2 No. 14 UL UL Category Control No.: NKCR CSA File No.: 012528 IEC/EN 60947-5-1



Powering Business Worldwide

**FEATURES**

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

**DECLARATIONS OF  
CONFORMITY**

[eaton-thermal-overload-  
relay-declaration-of-  
conformity-  
uk251271en.pdf](#)

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[IL03407007Z](#)

<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>POLLUTION DEGREE</b>	3
<b>CLASS</b>	CLASS 10 A
<b>CLIMATIC PROOFING</b>	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	6000 V AC 4000 V (auxiliary and control circuits)
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V</b>	1.5 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V</b>	0.7 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 500 V</b>	0.5 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V</b>	0.4 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V</b>	0.2 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 24 V</b>	0.9 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 60 V</b>	0.75 A
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	0.24 A
<b>STATIC HEAT</b>	0 W

<b>DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	
<b>STRIPPING LENGTH (CONTROL CIRCUIT CABLE)</b>	8 mm
<b>STRIPPING LENGTH (MAIN CABLE)</b>	8 mm
<b>PRODUCT CATEGORY</b>	ZE overload relays for mini contactor relays
<b>PROTECTION</b>	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
<b>ADJUSTABLE CURRENT RANGE - MAX</b>	0.24 A
<b>ADJUSTABLE CURRENT RANGE - MIN</b>	0.16 A
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	50 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>	40 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>	25 °C
<b>CONVENTIONAL THERMAL CURRENT ITH OF AUXILIARY CONTACTS (1-POLE, OPEN)</b>	6 A
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	4.5 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	1.5 W
<b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	1
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>NUMBER OF CONTACTS (NORMALLY CLOSED)</b>	1

<b>CONTACTS)</b>	
<b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>	0.24 A
<b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>	0.16 A
<b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>	690 V
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 120 V</b>	1.5 A
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>RESET FUNCTION</b>	Automatic Push-button
<b>SCREWDRIVER SIZE</b>	0.8 x 5.5 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
<b>MOUNTING METHOD</b>	Direct attachment Direct mounting
<b>DEGREE OF PROTECTION</b>	IP20
<b>OVERVOLTAGE CATEGORY</b>	III
<b>SAFE ISOLATION</b>	300 V AC, Between main circuits, According to EN 61140 300 V AC, Between auxiliary contacts and main contacts, According to EN 61140 250 V AC, Between auxiliary contacts, According to EN 61140
<b>SCREW SIZE</b>	M3.5, Terminal screw
<b>SHOCK RESISTANCE</b>	10 g, Mechanical, Sinusoidal, Shock duration 10 ms
<b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>	5 kA, SCCR (UL/CSA) 1 A, max. Fuse, SCCR (UL/CSA) 15 A, max. CB, CB for max. 480 V, SCCR (UL/CSA)
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b>	0.6 A, 600V AC, (UL/CSA) 1.5 A, 240V AC, (UL/CSA)
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>	D300, AC operated (UL/CSA) R300, DC operated

	(UL/CSA)
SHORT-CIRCUIT PROTECTION RATING	Max. 4 A gG/gL, Fuse, Auxiliary contacts 20 A gG/gL, Fuse, Type “1” coordination 1 A gG/gL, Fuse, Type “2” coordination
SUITABLE FOR	Branch circuits, (UL/CSA)
TEMPERATURE COMPENSATION	≤ 0.25 %/K, residual error for T > 40° Continuous
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)	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)	2 x (18 - 12), Control circuit cables 18 - 14, Main cables

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:



  Eaton House  
30 Pembroke Road  
Dublin 4,  Eaton.com

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