Overload relay, Direct mounting, Earth-fault protection: none, Ir= 0.33 - 1.65 A, 1 N/0, 1 N/C



Part no. ZEB12-1,65

136480

EL Number

4137412

(Norway)

(IVUI Way)	
General specifications	
Product name	Eaton Moeller® series ZEB Electronic overload Relay
Part no.	ZEB12-1,65
EAN	4015081332601
Product Length/Depth	108 millimetre
Product height	110 millimetre
Product width	45 millimetre
Product weight	0.235 kilogram
Compliances	Contact Manufacturer
Certifications	CE
Product Tradename	ZEB
Product Type	Electronic overload Relay
Product Sub Type	None
Catalog Notes	Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified.
Features & Functions	
Earth fault protection	None
Features	Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102)
Functions	Filament bulb (24 V)
General information	
Class	Adjustable
Degree of protection	IP20
Mounting method	Direct mounting Direct attachment
Overload release current setting - min	0.33 A
Overload release current setting - max	1.65 A
Overvoltage category	III
Pollution degree	3
Protection	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (Uimp)	6000 V AC 6000 V (auxiliary circuits)
Shock resistance	Mechanical, According to IEC/EN 60068-2-27 15 g, Mechanical, According to IEC/EN 60068-2-27, Shock duration 10 ms
Suitable for	Branch circuits, (UL/CSA)
Voltage type	Self powered
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	65 °C
Ambient operating temperature (enclosed) - max	65 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

2 x (0.75 - 2.5) mm², Control circuit cables 1 x (1.5 - 16) mm², Main cables 2 x (0.75 - 4) mm², Control circuit cables 1 x (14 - 4), Main cables 2 x (18 - 12), Control circuit cables 13 mm 8 mm M3.5, Terminal screw, Control circuit cables 2, Terminal screw, Pozidriv screwdriver 1 x 6 mm, Terminal screw, Standard screwdriver 7 lb-in, Screw terminals 0.8 - 1.2 Nm, Screw terminals, Control circuit cables
2 x (0.75 - 4) mm², Control circuit cables 1 x (14 - 4), Main cables 2 x (18 - 12), Control circuit cables 13 mm 8 mm M3.5, Terminal screw, Control circuit cables 2, Terminal screw, Pozidriv screwdriver 1 x 6 mm, Terminal screw, Standard screwdriver 7 lb-in, Screw terminals 0.8 - 1.2 Nm, Screw terminals, Control circuit cables
2 x (18 - 12), Control circuit cables 13 mm 8 mm M3.5, Terminal screw, Control circuit cables 2, Terminal screw, Pozidriv screwdriver 1 x 6 mm, Terminal screw, Standard screwdriver 7 lb-in, Screw terminals 0.8 - 1.2 Nm, Screw terminals, Control circuit cables
8 mm M3.5, Terminal screw, Control circuit cables 2, Terminal screw, Pozidriv screwdriver 1 x 6 mm, Terminal screw, Standard screwdriver 7 lb-in, Screw terminals 0.8 - 1.2 Nm, Screw terminals, Control circuit cables
M3.5, Terminal screw, Control circuit cables 2, Terminal screw, Pozidriv screwdriver 1 x 6 mm, Terminal screw, Standard screwdriver 7 lb-in, Screw terminals 0.8 - 1.2 Nm, Screw terminals, Control circuit cables
2, Terminal screw, Pozidriv screwdriver 1 x 6 mm, Terminal screw, Standard screwdriver 7 lb-in, Screw terminals 0.8 - 1.2 Nm, Screw terminals, Control circuit cables 5 A
1 x 6 mm, Terminal screw, Standard screwdriver 7 lb-in, Screw terminals 0.8 - 1.2 Nm, Screw terminals, Control circuit cables 5 A
0.8 - 1.2 Nm, Screw terminals, Control circuit cables 5 A
0 V
0 V
0 V
0 V
0 V
0 V
50 Hz
60 Hz
1.5 A
1.5 A
0.9 A
0.4 A
0.2 A
0.9 A
0.75 A
690 V
600 V AC, Between main circuits, According to EN 61140 440 V, Between auxiliary contacts and main contacts, According to EN 61140 240 V AC, Between auxiliary contacts, According to EN 61140
Max. 6 A gG/gL, fuse, Without welding, Auxiliary and control circuits
1 kA, SCCR (UL/CSA) 6 A RK5, max. Fuse, SCCR (UL/CSA)
B600, AC operated (UL/CSA) R300, DC operated (UL/CSA)
600 V
0
1
1
1
1
0.51 W
0.91 W
0.17 W
1.65 A
0 W
Meets the product standard's requirements.

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.
10.9.4 Testing of enclosures made of insulating material	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 lobserved.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Electronic overload relay (EC001080) Electric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Electronic overload relay (ecl@ss13-27-37-15-02 [AKF076019]) Mounting method Direct attachment Type of electrical connection of main circuit Screw connection Α 0.33 - 1.65 Adjustable current range External power supply required No ٧ 0 - 0 Rated control supply voltage AC 50 Hz Rated control supply voltage AC 60 Hz ٧ 0 - 0 Rated control supply voltage DC 0 - 0 Voltage type for actuating Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact 0 Voltage type (operating voltage) AC Operating voltage AC 50 Hz ٧ 230 - 690 Operating voltage AC 60 Hz 230 - 690 Operating voltage DC 0 - 0 Rated switch current Α Release class Adjustable Reset function automatic Yes Reset function input No Reset function push-button Yes Width 45 mm 110 Height mm Depth 108 mm