Product height

Product width Product weight

Compliances

Overload relay, Separate mounting, Earth-fault protection: none, Ir= 1 - 5 A, 1 N/O, 1 N/C



K

	Part no. EL Number (Norway)	ZEB32-5/K 136495 4137364
General specifications		
Product name		
Part no.		
EAN		
Product Length/Depth		

Eaton Moeller® series ZEB Electronic overload Relay ZEB32-5/KK 4015081332755 108 millimetre 110 millimetre 45 millimetre 0.35 kilogram Contact Manufacturer IEC/EN 60947-4-1

Certifications	IEC/EN 60947-4-1 UL File No.: E1230 CSA File No.: 2290956 UL IEC/EN 60947 CSA CSA Class No.: 3211-03 UL 508 VDE 0660 CE UL Category Control No.: NKCR CSA-C22.2 No. 14
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	Separate positioning Separate mounting
Overload release current setting - min	1 A
Overload release current setting - max	5 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

Terminal capacities		
Terminal capacity (flexible with ferrule)	2 x (0.75 - 2.5) mm², Control circuit cables	
Terminal capacity (solid)	1 x (1.5 - 16) mm², Main cables 2 x (0.75 - 4) mm², Control circuit cables	
Terminal capacity (solid/stranded AWG)	1 x (14 - 4), Main cables 2 x (18 - 12), Control circuit cables	
Stripping length (main cable)	13 mm	
Stripping length (control circuit cable)	8 mm	
Screw size	M3.5, Terminal screw, Control circuit cables	
Screwdriver size	2, Terminal screw, Pozidriv screwdriver 1 x 6 mm, Terminal screw, Standard screwdriver	
Tightening torque	7 lb-in, Screw terminals 0.8 - 1.2 Nm, Screw terminals, Control circuit cables	
Electrical rating		
Conventional thermal current ith of auxiliary contacts (1-pole, open)	5 A	
Rated control supply voltage (Us) at AC, 50 Hz - min	0 V	
Rated control supply voltage (Us) at AC, 50 Hz - max	0 V	
Rated control supply voltage (Us) at AC, 60 Hz - min	0 V	
Rated control supply voltage (Us) at AC, 60 Hz - max	0 V	
Rated control supply voltage (Us) at DC - min	0 V	
Rated control supply voltage (Us) at DC - max	0 V	
Rated frequency - min	50 Hz	
Rated frequency - max	60 Hz	
Rated operational current (le) at AC-15, 120 V	1.5 A	
Rated operational current (le) at AC-15, 220 V, 230 V, 240 V	1.5 A	
Rated operational current (le) at AC-15, 380 V, 400 V, 415 V	0.9 A	
Rated operational current (le) at DC-13, 110 V	0.4 A	
Rated operational current (le) 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 voltage (Ue) at AC - max	690 V	
Safe isolation	440 V, Between auxiliary contacts and main contacts, According to EN 61140 600 V AC, Between main circuits, According to EN 61140 240 V AC, Between auxiliary contacts, According to EN 61140	
Short-circuit protection rating	Max. 6 A gG/gL, fuse, Without welding, Auxiliary and control circuits	
Short-circuit current rating (high fault at 600 V)	100 kA, Fuse, SCCR (UL/CSA) 20 A, Class J, max. Fuse, SCCR (UL/CSA)	
Switching capacity (auxiliary contacts, pilot duty)	R300, DC operated (UL/CSA) B600, AC operated (UL/CSA)	
Voltage rating - max	600 V	
Contacts		
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	
Design verification		
Equipment heat dissipation, current-dependent Pvid	0.5 W	
Heat dissipation capacity Pdiss	0 W	
Heat dissipation per pole, current-dependent Pvid	0.17 W	
Rated operational current for specified heat dissipation (In)	5 A	
	0 W	
Static heat dissipation, non-current-dependent Pvs		
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.
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 Separate positioning Type of electrical connection of main circuit Screw connection Α 1 - 5 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