Overload relay, Direct mounting, Earth-fault protection: none, Ir= 20 - 100 A, 1 N/O, 1 N/C



Part no. ZEB65-100

136504

EL Number

4137373

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Praduct frame	(INUI Way)	
Part no. EAM 10581303647 Product length Uppth Product beight Product width Product width Product width Product width Certifications Product width Certifications Product registry Product year the land of the lan	General specifications	
EAN 101501302047 Product langish Diagots Product twight Product wight Product Tradersame Product Tradersam	Product name	Eaton Moeller® series ZEB Electronic overload Relay
Product length Depth Product beight Product rought Product veight Product Sach Sach Sach Sach Sach Sach Sach Sach	Part no.	ZEB65-100
Product width Product width Product width Product width Cartifications Can	EAN	4015081332847
Product weight 0.68 bilogram Confilications CSA SA LECKE 80947-4-1 ct. CT	Product Length/Depth	136.3 millimetre
Product weight Certifications CSA CSA CSA CHAPA PA-1 CEIC NO MINAY CSA CISSA No. 32211-03 UL Sea CSA CISSA No. 1200666 Product Tradename ZEB Product Tradename ZEB Product Type CSA CISSA No. 18 CSA CIS	Product height	116 millimetre
Certifications Catalogy Control Not: NICCR UL File Not: CET210 V10 C6861 CERTIFICATION CERTIFICATION Certifications Cert	Product width	56 millimetre
FECEN BIRDN 4-1 CLE FIN No. E1210 ULF FIN No. E1200556 CLE FIN No. E2200556 Product Tupe Product Tupe Product Sub Type	Product weight	0.648 kilogram
Product Type Product Sob Type Catalog Notes Catalog Notes Catalog Notes Earth fault protection Earth fault protection Features & Functions Earth fault protection Foatures Catalog Notes Catalog Notes Earth fault protection Features Earth fault protection Foatures Catalog Notes Catalog Notes Earth fault protection Foatures Foat	Certifications	IEC/EN 60947-4-1 CE UL File No.: E1230 VDE 0660 UL 508 CSA Class No.: 3211-03 UL Category Control No.: NKCR UL IEC/EN 60947 CSA-C22.2 No. 14
Product Sub Type Catalog Notes Catalog Notes Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified. Features & Functions Earth fault protection Passe-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102) Features Features Features Filament bulb (24 V) Features Class Class Class Class Class Degree of protection P20 Degree of protection P20 Degree of protection P20 Overload release current setting - min Overload release current setting - min Overload release current setting - max Overload rele	Product Tradename	ZEB
Catalog Notes Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified. Features & Functions None Features (Paulity protection) Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102) Functions Flament builb (24 V) General information IP20 Class Adjustable Degree of protection IP20 Mounting method Direct mounting Overload release current setting - min 20 A Overload release current setting - max 100 A Overvoltage category III Pollution degree 3 Protection Finger and back-of-hand proof, Protection against direct contact when actuated from front (TR 90274) Rated impulse withstand voltage (Uimp) 60000 V AC Shock resistance 15 g, Mechanical, According to IEC/EN 60088-2-27, Shock duration 10 ms Mechanical, According to IEC/EN 60088-2-27, Shock duration 10 ms Mechanical, According to IEC/EN 60088-2-27, Shock duration 10 ms Mechanical, According to IEC/EN 60088-2-27, Shock duration 10 ms Mechanical, According to IEC/EN 60088-2-27, Shock duration 10 ms Mechanical, According to IEC/EN 60088-2-27, Shock duration 10 ms Mechanical, According to IEC/EN 60088-2-27, Shock duration 10 ms Mechanical particles and particles and particles are included in the particle particles are included included in the particle particles are included incl	Product Type	Electronic overload Relay
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Class Adjustable Degree of protection IP20 Mounting method Direct mounting Direct attachment Overload release current setting - min 20 A Overload release current setting - max 100 A Overload release cu	Features	Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102)
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Climatic proofing Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30	Ambient operating temperature - max	65 °C
Damp heat, cyclic, to IEC 60068-2-30	Ambient operating temperature (enclosed) - max	45 °C
Terminal capacities	Climatic proofing	
	Terminal capacities	

-	2 (27, 27)
Terminal capacity (flexible with ferrule)	2 x (0.75 - 2.5) mm², Control circuit cables
Terminal capacity (solid)	$2 \times (0.75 - 4) \text{ mm}^2$, Control circuit cables $1 \times (16 - 50) \text{ mm}^2$, Main cables
Terminal capacity (solid/stranded AWG)	1 x (6 - 1), Main cables 2 x (18 - 12), Control circuit cables
Stripping length (main cable)	14 mm
Stripping length (control circuit cable)	8 mm
Screw size	M3.5, Terminal screw, Control circuit cables
Screwdriver size	1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
Tightening torque	0.8 - 1.2 Nm, Screw terminals, Control circuit cables 7 lb-in, Screw terminals
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 (Ie) at AC-15, 120 V	1.5 A
Rated operational current (le) at AC-15, 120 V Rated operational current (le) 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	0.9 A
Rated operational current (Ie) at DC-13, 110 V	0.4 A
Rated operational current (Ie) 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	600 V AC, Between main circuits, According to EN 61140 240 V AC, Between auxiliary contacts, According to EN 61140 440 V, Between auxiliary contacts and main 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)
Switching capacity (auxiliary contacts, pilot duty)	200 A, Class J, max. Fuse, SCCR (UL/CSA) B600, AC operated (UL/CSA) R300, DC 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	25.4 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	8.47 W
Rated operational current for specified heat dissipation (In)	100 A
Static heat dissipation, non-current-dependent Pvs	0 W
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 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.

Technical data ETIM 9.0

Technical data ETTIVI 9.0		
Low-voltage industrial components (EG000017) / Electronic overload relay (EC001080	0)	
${\bf Electric\ engineering,\ automation,\ process\ control\ engineering\ /\ Low-voltage\ switch}$	technology / Overload p	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
Adjustable current range	Α	20 - 100
External power supply required		No
Rated control supply voltage AC 50 Hz	V	0 - 0
Rated control supply voltage AC 60 Hz	V	0 - 0
Rated control supply voltage DC	V	0 - 0
Voltage type for actuating		
Number of auxiliary contacts as normally closed contact		1
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as change-over contact		0
Voltage type (operating voltage)		AC
Operating voltage AC 50 Hz	V	230 - 690
Operating voltage AC 60 Hz	V	230 - 690
Operating voltage DC	V	0 - 0
Rated switch current	Α	
Release class		Adjustable
Reset function automatic		Yes
Reset function input		No
Reset function push-button		Yes
Width	mm	56
Height	mm	116
Depth	mm	136.3