Overload relay, Direct mounting, Earth-fault protection: none, Ir= 4 - 20 A, 1 N/O, 1 N/C



Part no. ZEB32-20

136488

EL Number

4137357

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Product frame Product rame Product rame Product trace Prod	(Norway)	
Part no. EAN ADDITIONAL Transphillegith Product Ineight Product problem Product with product with Product with product with Product with prod	General specifications	
Foliate Length Depth Product Length Depth Product Length Depth Product Weight Product weight Product weight Certifications U.584 Norgarm Foliations U.585 Norgarm Foliations Fol	Product name	Eaton Moeller® series ZEB Electronic overload Relay
Product Langth Dupth Product thight Product wight Certifications Product wight Certifications Product Trivelenans Product Trivelenans Product Trivelenanc Product Trivelenance Product Triv	Part no.	ZEB32-20
Product height Product width Product width Product width Days Millmarte 10 millmarte 10 millmar	EAN	4015081332687
Product wight Cartifications	Product Length/Depth	108 millimetre
Product Tradename Product Trad	Product height	110 millimetre
Certifications CESC 1058 No. 231-03 LECEN 105947 + 1 LEC CS.A Class No. 231-03 LECEN 105947 + 1 LEC CS.A Class No. 231-03 LECEN 105947 + 1 LEC CS.A Class No. 231-03 LECEN 105947 LECE	Product width	45 millimetre
	Product weight	0.294 kilogram
Product Type Product Sub Type Catalog Notes	Certifications	IEC/EN 60947-4-1 UL CE CSA Class No.: 3211-03 IEC/EN 60947 UL File No.: E1230 CSA CSA File No.: 2290956 CSA-C22.2 No. 14 UL Category Control No.: NKCR
Product Sub Type Catalog Notes Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified. Earth fault protection None Features & Functions Earth fault protection Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102) Functions Features Filament bulb (24 V) Filament bulb (24 V) Seneral information Class Adjustable Degree of protection Mounting method Direct attachment Direct mounting Overload release current setting - min Overload release current setting - min Overload release current setting - max Overvoltage category Filament bulb (24 V) Protection Protection Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 80274) Rated impulse withstand voltage (Uimp) Shock resistance Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 80274) Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 80274) Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 80274) Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 80274) Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 80274) Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 80274) Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 80274) Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 80274) Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 80274) Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 80274) Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 80274) Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 80274) Finger and back-of-hand proof, Protection against	Product Tradename	ZEB
Rated operational current: Switch-on and switch-off conditions based on DC-13, time constant as specified. Earth fault protection Features Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102) Functions Beneral information Class Degree of protection Plazo Mounting method Direct attachment Direct attachment Direct attachment Direct mounting Overload release current setting - min April 10 Pollution degree Protection Rated impulse withstand voltage (Uimp) Shock resistance Self powered Shock resistance many for the Circle 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 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 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	Product Type	Electronic overload Relay
time constant as specified. Features & Functions Earth fault protection Features Flunctions Features Flunctions Fluncti	Product Sub Type	None
Earth fault protection Features Phase-failure sensitivity (according to IEC/EN 60947, VDE 0660 Part 102) Functions Filament bulb (24 V) Filament bulb (24	Catalog Notes	
Phase-failure sensitivity (according to IEC/EN 60947, VDE 0680 Part 102) Functions Filament bulb (24 V) Filam	eatures & Functions	
Functions Filament bulb (24 V) Filament bulb (24 V) Filament bulb (24 V) Filament bulb (24 V) Adjustable Adjustable P20 Mounting method Direct attachment Direct mounting Overload release current setting - min AA Overload release current setting - max Overload release current setting - max Overload release current setting - max Direct mounting 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) Shock resistance Suitable for Suitable for Voltage type Self powered Simmatic environmental conditions Ambient operating temperature - min Ambient operating temperature (enclosed) - max Ambient operating temperature (enclosed) - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Earth fault protection	None
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Class Adjustable Degree of protection Mounting method Direct attachment Direct mounting Overload release current setting - min Overload release current setting - max Overvoltage category Pollution degree 3 Protection Rated impulse withstand voltage (Uimp) Shock resistance Shock resistance Sound Standard	Functions	Filament bulb (24 V)
Degree of protection Mounting method Direct attachment Direct mounting Overload release current setting - min Overload release current setting - max Overload release current setting - max 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) Shock resistance Shock resistance Situable for Voltage type Silmatic environmental conditions Ambient operating temperature - min Ambient operating temperature - max Ambient operating temperature (enclosed) - max Climatic proofing P20 Direct attachment Direct mounting 4 A A A A A Direct attachment Direct mounting 4 A A A A A A A A A A A A A	General information	
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Ambient operating temperature - min Ambient operating temperature - max Ambient operating temperature - max 65 °C Ambient operating temperature (enclosed) - max Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Suitable for	Branch circuits, (UL/CSA)
Ambient operating temperature - min -25 °C Ambient operating temperature - max 65 °C Ambient operating temperature (enclosed) - max 65 °C Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Voltage type	Self powered
Ambient operating temperature - max 65 °C Ambient operating temperature (enclosed) - max 65 °C Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	limatic environmental conditions	
Ambient operating temperature (enclosed) - max 65 °C Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Ambient operating temperature - min	-25 °C
Climatic proofing Damp heat, cyclic, to IEC 60068-2-30	Ambient operating temperature - max	65 °C
	Ambient operating temperature (enclosed) - max	65 °C
	Climatic proofing	

Terminal capacity (flexible with ferrule)	2 x (0.75 - 2.5) mm ² , Control circuit cables
Terminal capacity (solid)	1 x (1.5 - 16) mm ² , 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
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Rated operational current (le) at DC-13, 220 V, 230 V	0.2 A
Rated operational current (le) at DC-13, 24 V	0.9 A
Rated operational current (le) 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 240 V AC, Between auxiliary contacts, According to EN 61140 600 V AC, Between main circuits, 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) 60 A, Class J, max. Fuse, SCCR (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	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	2.3 W
Heat dissipation capacity Pdiss	0 W
	0.77 W
Heat dissipation per pole, current-dependent Pvid	
Rated operational current for specified heat dissipation (In)	20 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

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 Adjustable current range Α 4 - 20 No External power supply required Rated control supply voltage AC 50 Hz 0 - 0 0 - 0 ٧ Rated control supply voltage AC 60 Hz ٧ 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 230 - 690 Operating voltage AC 60 Hz 230 - 690 ٧ 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 mm 45 110 Height mm 108 Depth mm