

Overload relay, electronic, 4-20A, separate mounting

Part no. Article no. Catalog No. ZEB32-20/KK 136496 XTOE020CCSS



Delivery program

Product range			Electronic overload relays ZEB
Phase-failure sensitivity			IEC/EN 60947, VDE 0660 Part 102
Description			Test/off button Reset pushbutton Manual/auto reset selectable Protection with heavy starting duty (Class 10A-30)
Mounting type			Separate mounting
Earth-fault protection			
Earth-fault protection			none
Setting range			
Overload releases	l _r	A	4 - 20
Contact sequence			$\begin{array}{c c} 1 & 3 & 5 & 97 & 95 \\ \hline $
Auxiliary contacts			
N/O = Normally open			1 N/O
N/C = Normally closed			1 N/C
For use with			DILM17 DILM25 DILM32 DILM38 DIULM17 DIULM25 DIULM32 SDAINLM30 SDAINLM45 SDAINLM55

Technical data

		IEC/EN 60947, VDE 0660, UL, CSA
		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
	°C	-25 - +65
	°C	65
	g	15 Shock duration 10 ms according to IEC 60068-2-27
		IP20
		Finger and back-of-hand proof
U _{imp}	V AC	6000
		111/3
Ui	V AC	690
Ue	V AC	690
f	Hz	50/60
	V AC	600
	V AC	600
	Ui	°C g g U _{imp} VAC U _i VAC U _e VAC f Hz

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Terminal capacities		mm ²	
Solid		mm ²	1 x 1.5 - 16
Solid or stranded		AWG	1 x 14 - 4
Auxiliary and control circuits			
Rated impulse withstand voltage	U _{imp}	V	6000
Overvoltage category/pollution degree			111/3
Terminal capacities		mm ²	
Solid		mm ²	2 × (0.75 - 4)
Flexible with ferrule		mm ²	2 x (0.75 - 2.5)
Solid or stranded		AWG	2 x (18 - 12)
Terminal screw			M3.5
Tightening torque		Nm	0.8 - 1.2
Tightening torque		lb-in	7
Tools			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	1 x 6
Rated insulation voltage	Ui	V AC	500
Rated operational voltage	Ue	V AC	500
Safe isolation to EN 61140			
between the auxiliary contacts		V AC	240
Conventional thermal current	I _{th}	А	5
Rated operational current	l _e	А	
AC-15			
Make contact			
120 V	l _e	А	1.5
220 V 230 V 240 V	le	А	1.5
380 V 400 V 415 V	I _e	А	0.5
500 V	I _e	А	0.5
Break contact			
120 V	le	А	1.5
220 V 230 V 240 V	le	А	1.5
380 V 400 V 415 V	le	А	0.9
500 V	le	А	0.8
DC-13 L/R - 15 ms			
24 V	l _e	А	0.9
60 V	le	А	0.75
110 V	le	A	0.4
220 V	le	A	0.2
Short-circuit rating without welding			
max. fuse		A gG/gL	6

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	20
Heat dissipation per pole, current-dependent	P _{vid}	W	0.77
Equipment heat dissipation, current-dependent	P _{vid}	W	2.3
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	65
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties	
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 6.0

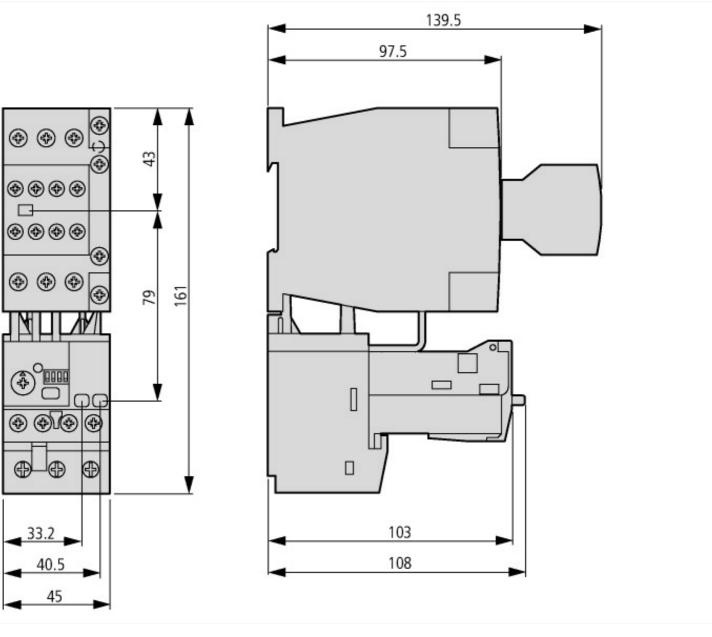
Low-voltage industrial components (EG000017) / Electronic overload relay (EC001080)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Electronic overload relay (ecl@ss8.1-27-37-15-02 [AKF076011])			
Adjustable current range	1	A	4 - 20
Mounting method			Separate positioning
Type of electrical connection of main circuit			Screw connection
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
Rated control supply voltage Us at AC 50HZ	N	V	0 - 0
Rated control supply voltage Us at AC 60HZ	N N	V	0 - 0
Rated control supply voltage Us at DC	N N	V	0 - 0
Release class			Adjustable
Voltage type for actuating			Selfsupplied

Approvals

UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; CE marking
E1230
NKCR
2290956
3211-03
UL listed, CSA certified
No
Branch circuits
600 V AC
IEC: IP20, UL/CSA Type: -





Additional product information (links)

IL04210002E Solid-state motor protection relay

IL04210002E Solid-state motor protection relay ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04210002E2012_06.pdf