

Overload relay, 35-175A, electronic, 1N/O+1N/C, separate mounting

Powering Business Worldwide*

Part no. ZEB150-175/KK Article no. 164305 Catalog No. XTOE175GCSS

110			 PR 10 4	2 122
	livery	•		4111

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	35 - 175
Contact sequence			1 3 5 97 95 1 4 6 98 96
Auxiliary contacts			
N/O = Normally open			1 N/O
N/C = Normally closed			1 N/C
For use with			DILM80 DILM95 DILM115 DILM150 DILM170 DIULM80 DIULM95 DIULM155 DIULM150 SDAINLM140 SDAINLM165 SDAINLM200 SDAINLM260

Technical data

General

Standards			IEC/EN 60947, VDE 0660, UL, CSA
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +65
Ambient temperature open max.		°C	65
Mechanical shock resistance		g	15 Shock duration 10 ms according to IEC 60068-2-27
Degree of Protection			IP20
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Main conducting paths			
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	V AC	690
Rated operational voltage	U _e	V AC	690
Rated frequency	f	Hz	50/60
Safe isolation to EN 61140			

between auxiliary contacts and main contacts		V AC	000
Between main circuits		V AC	600
Terminal capacities		mm^2	
Solid		mm ²	1 x 10 - 95
Solid or stranded		AWG	1 x 8 - 4/0
Flat conductor	Lamellenzahl x Breite x Dicke	mm	6 x 18 x 0.8
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 x (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	U _e	V AC	500
Safe isolation to EN 61140			
between the auxiliary contacts		V AC	240
Conventional thermal current	I _{th}	Α	5
Rated operational current	l _e	Α	
AC-15			
Make contact			
120 V	l _e	Α	1.5
220 V 230 V 240 V	l _e	Α	1.5
380 V 400 V 415 V	l _e	Α	0.5
500 V	l _e	Α	0.5
Break contact			
120 V	l _e	Α	1.5
220 V 230 V 240 V	l _e	Α	1.5
380 V 400 V 415 V	l _e	Α	0.9
500 V	l _e	Α	0.8
DC-13 L/R - 15 ms			
24 V	l _e	Α	0.9
60 V	l _e	Α	0.75
110 V	l _e	Α	0.4
220 V	l _e	Α	0.2
Short-circuit rating without welding			
max. fuse		A gG/gL	6

V AC 600

Design verification as per IEC/EN 61439

Between auxiliary contacts and main contacts

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	175
Heat dissipation per pole, current-dependent	P_{vid}	W	11.86
Equipment heat dissipation, current-dependent	P _{vid}	W	35.6
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25

°C	65
	Meets the product standard's requirements.
	Does not apply, since the entire switchgear needs to be evaluated.
	Does not apply, since the entire switchgear needs to be evaluated.
	Meets the product standard's requirements.
	Does not apply, since the entire switchgear needs to be evaluated.
	Meets the product standard's requirements.
	Does not apply, since the entire switchgear needs to be evaluated.
	Does not apply, since the entire switchgear needs to be evaluated.
	Is the panel builder's responsibility.
	Is the panel builder's responsibility.
	Is the panel builder's responsibility.
	Is the panel builder's responsibility.
	Is the panel builder's responsibility.
	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
	Is the panel builder's responsibility. The specifications for the switch gear must be observed.
	Is the panel builder's responsibility. The specifications for the switch gear must b observed. $\label{eq:builder}$
	The device meets the requirements, provided the information in the instruction

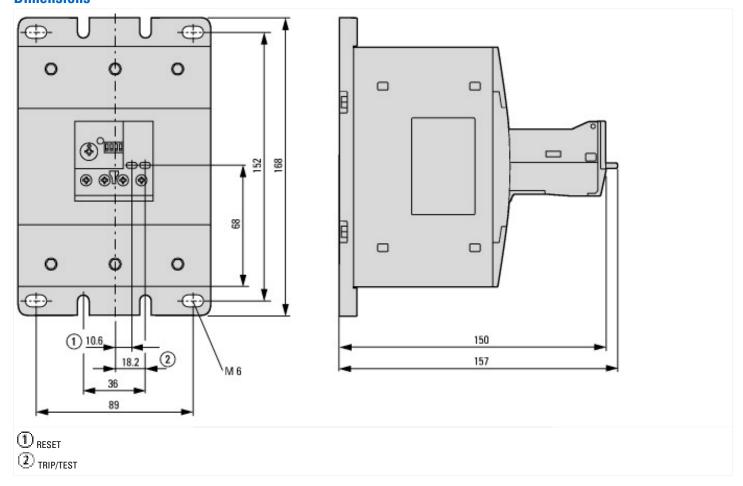
Technical data ETIM 6.0

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 A 0 - 175		0 - 175	
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		V	0 - 0
Rated control supply voltage Us at AC 60HZ		V	0 - 0
Rated control supply voltage Us at DC		V	0 - 0
Release class			Adjustable
Voltage type for actuating			Selfsupplied

Approvals

DL File No. E1230 DL Category Control No. NKCR CSA File No. CSA File No. CSA Class No. North America Certification Specially designed for North America Suitable for Max. Voltage Rating E1230 NKCR 2290956 3211-03 UL listed, CSA certified No Branch circuits 600 V AC	• •	
DL Category Control No. DL Category Control No. DL Category Control No. DL Category Control No. 2290956 DL Category Control No. 2290956 DL Category Control No. 3211-03 UL listed, CSA certified No. Decially designed for North America No. Branch circuits Max. Voltage Rating No. 600 V AC	Product Standards	UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; CE marking
2290956 CSA File No. 2290956 CSA Class No. 3211-03 North America Certification UL listed, CSA certified No Specially designed for North America No Suitable for Branch circuits Max. Voltage Rating 600 V AC	UL File No.	E1230
SSA Class No. North America Certification UL listed, CSA certified No Suitable for Branch circuits Max. Voltage Rating 3211-03 UL listed, CSA certified No 800 V AC	UL Category Control No.	NKCR
North America Certification UL listed, CSA certified No Specially designed for North America No Branch circuits Max. Voltage Rating OUT Distance No Branch circuits	CSA File No.	2290956
Specially designed for North America Suitable for Branch circuits Max. Voltage Rating 600 V AC	CSA Class No.	3211-03
Suitable for Branch circuits Max. Voltage Rating 600 V AC	North America Certification	UL listed, CSA certified
Max. Voltage Rating 600 V AC	Specially designed for North America	No
	Suitable for	Branch circuits
Degree of Protection IEC: IP20, UL/CSA Type: -	Max. Voltage Rating	600 V AC
	Degree of Protection	IEC: IP20, UL/CSA Type: -

Dimensions



Additional product information (links)

IL04210002E Solid-state motor protection relay

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