

Overload relay 4 - 6A

Powering Business Worldwide™

Part no. ZE-6 Article no. 014565

	ra	

Product range			ZE overload relays for mini contactor relays
Phase-failure sensitivity			IEC/EN 60947, VDE 0660 Part 102
Description			Test/off button Reset pushbutton manual/auto Trip-free release
Mounting type			Direct mounting
Setting range			
Overload releases	I _r	Α	4 - 6
Contact sequence			97 95
Auxiliary contacts			
N/0 = Normally open			1 N/0
N/C = Normally closed			1 N/C
For use with			DILEM DIULEM/21/MV SDAINLEM
Short-circuit protection			
Type "1" coordination	gG/gL	Α	20
Type "2" coordination	gG/gL	Α	10

Notes

Overload release: tripping class 10 A

Short-circuit protection: Observe the maximum permissible fuse of the contactor with direct device mounting.

Suitable for protection of Ex e-motors

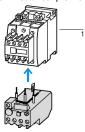


II (2) GD

PTB 10 ATEX 3014

Observe manual AWB2300-1425D/GB.

NotesWhen fitted directly to the contactor a clearance of at least 5 mm is required between the overload relays.



1 Contactor

Approbationen

UL approval CSA approval **Product Standards** UL File No. UL CCN CSA File No. CSA Class No. NA Certification Specially designed for NA Suitable for Max. Voltage Rating

Yes Yes

UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; CE marking

E29184 NKCR 12528 3211-03

UL listed, CSA certified

No

Branch circuits 600 V AC

Pozidriv screwdriver

Standard screwdriver

Rated insulation voltage

Rated operational voltage

Degree of Protection		IEC: IP20, UL/CSA Type: -		
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		°C		
			Operating range to IEC/EN 60947 PTB: -5 °C - +55 °C	
Open		°C	- 25 - 50	
Enclosed		°C	- 25 - 40	
Temperature compensation			Continuous	
Weight		kg	0.07	
Mechanical shock resistance		g	10 Sinusoidal Shock duration 10 ms	
Protection type			IP20	
Protection against direct contact when actuated from front (EN 90274)			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	690	
Rated operational voltage	U _e	V AC	690	
Safe isolation to VDE 0106 Part 101 and Part 101/A1				
Between auxiliary contacts and main contacts		V AC	300	
Between main circuits		V AC	300	
Temperature compensation residual error > 40°C			≦ _{0.25%/K}	
Current heat loss (3 conductors)				
Lower value of the setting range		W	2.5	
Maximum setting		W	6	
Terminal capacities		mm ²		
Solid		mm ²	2 x (0.75 - 2.5)	
Flexible with ferrule		mm ²	2 × (0.5 - 1.5)	
Solid or stranded		AWG	18 - 14	
Terminal screw			M3.5	
Tightening torque		Nm	1.2	
Tools		0:	2	
Pozidriv screwdriver		Size	2	
Standard screwdriver		mm	0.8 x 5.5	
Auxiliary and control circuits	11	V	0000	
Rated impulse withstand voltage	U _{imp}	V	6000	
Overvoltage category/pollution degree			III/3	
Terminal capacities		mm ²		
Solid		mm ²	2 x (0.75 - 2.5)	
Flexible with ferrule		mm ²	2 x (0.5 - 1.5)	
Solid or stranded		AWG	2 x (18 - 12)	
Terminal screw			M3.5	
Tightening torque		Nm	0.8 - 1.2	
Tools				
Pozidriy oprovedniyor		Ciro	0	

 $\, U_i \,$

 U_{e}

Size

mm

AC V AC 2

690

500

0.8 x 5.5

Safe isolation to VDE 0106 Part 101 and Part 101/A1			
between the auxiliary contacts		V AC	300
Conventional thermal current	I _{th}	Α	6
Rated operational current	l _e	Α	
AC-15			
Make contact			
120 V	l _e	Α	1.5
240 V	l _e	Α	1.5
415 V	I _e	Α	0.5
500 V	I _e	Α	0.3
Break contact			
120 V	l _e	Α	1.5
240 V	l _e	Α	1.5
415 V	l _e	Α	0.7
500 V	l _e	Α	0.5
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	4

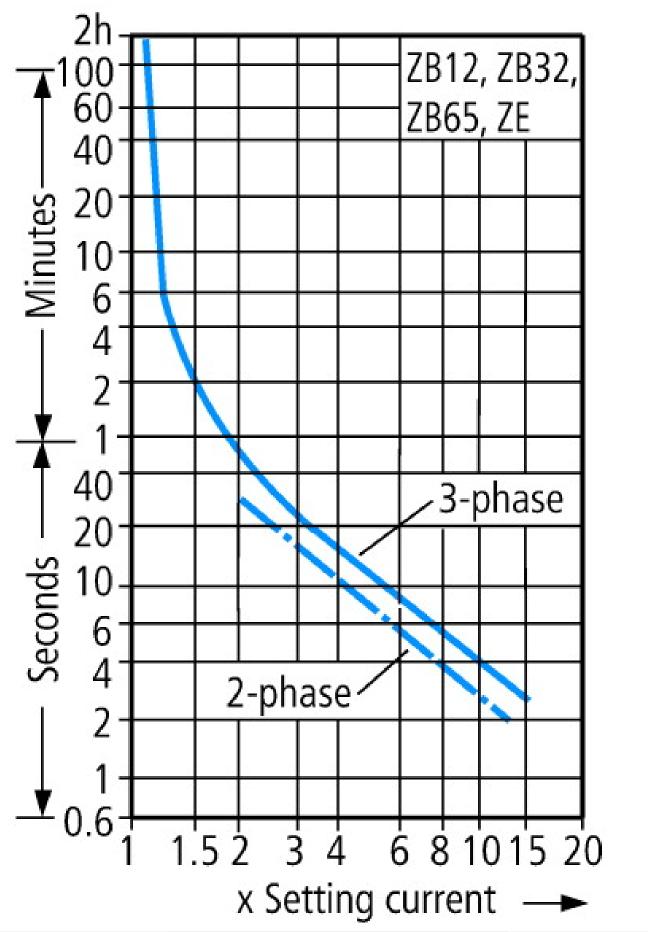
Notes

Notes Ambient temperature: operating range to IEC/EN 60947, PTB: -5°C to +50°C Rated operational current: Making and breaking conditions to DC-13, L/R constant as stated See overlay: "Fuses" for short-circuit rating time/current characteristic (please enquire)

Technical data according to ETIM 4.0

Number of auxiliary contacts as N/Cs			1
Number of auxiliary contacts as N/Os			1
Mounting type			Direct mounting
Adjustable current range	А	4	6
Connection type main circuit			Screw connection
Tripping class			CLASS 10
Number of auxiliary contacts as changeover contacts			0

Characteristics



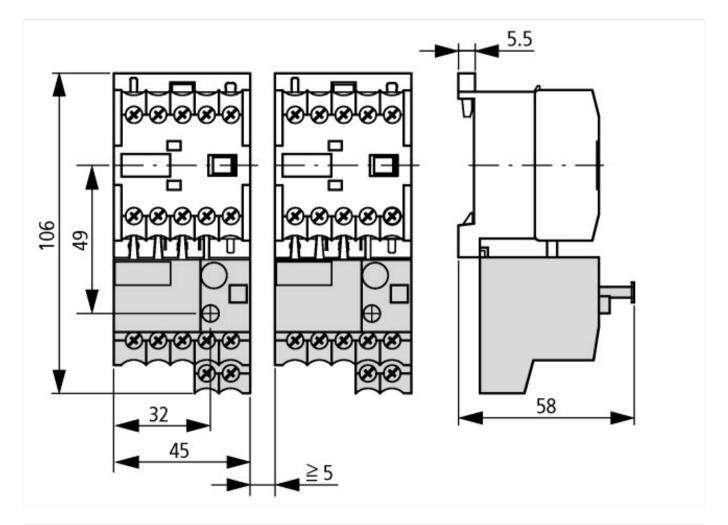
These tripping characteristics are mean values of the spread at 20 °C ambient temperature in a cold state. Tripping time depends on response current. On devices at operating temperature the tripping time of the overload relay drops to approx. 25 % of the read value. Specific characteristics for each individual setting range can be found in the manual.

CAD-Data

Product standards CAD data:

http://eaton-moeller.partcommunity.com

Dimensions



Additional product information (links)

IL03407007Z (IL03407007Z) Overload relay

MN03407003Z-EN (AWB2300-1425) ZE motor-protective relay; Overload monitoring of Ex e motors - Deutsch / English

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407007Z2010_10.pdf ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN03407003Z_DE_EN.pdf