




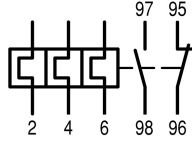


Overload relay 1,6 - 2,4A



Powering Business Worldwide™

Part no. ZE-2,4
Article no. 014479
Catalog No. XTOM2P4AC1

Delivery programme

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	A	1.6 - 2.4
Contact sequence			
Auxiliary contacts			
N/O = Normally open			1 N/O
N/C = Normally closed			1 N/C
For use with			DILEM DIULEM/21/MV SDAINLEM
Short-circuit protection			
Type "1" coordination 	gG/gL	A	20
Type "2" coordination 	gG/gL	A	6

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



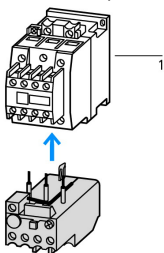
II (2) G

PTB 10 ATEX 3014

Observe manual MN03407003Z-DE/EN.

Notes

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



1 Contactor

Approvals

Product Standards
 UL File No.
 UL CCN
 CSA File No.
 CSA Class No.
 NA Certification
 Specially designed for NA
 Suitable for
 Max. Voltage Rating
 Degree of Protection

UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; IEC/EN 60947-5-1; CE marking
 E29184
 NKCR
 12528
 3211-03
 UL listed, CSA certified
 No
 Branch circuits
 600 V AC
 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 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	U_i	V	690
Rated operational voltage	U_e	V AC	690
Safe isolation to EN 61140			
Between auxiliary contacts and main contacts		V AC	300
Between main circuits		V AC	300
Temperature compensation residual error > 40 °C			$\leq 0.25\%/K$
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 x (0.5 - 1.5)
Solid or stranded		AWG	18 - 14
Terminal screw			M3.5
Tightening torque		Nm	1.2
Tools			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 x 5.5

Auxiliary and control circuits

Rated impulse withstand voltage	U_{imp}	V	4000
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				
Pozidriv screwdriver		Size	2	
Standard screwdriver		mm	0.8 x 5.5	
Rated insulation voltage	U_i	V AC	500	
Rated operational voltage	U_e	V AC	500	
Safe isolation to EN 61140				
between the auxiliary contacts		V AC	300	
Conventional thermal current	I_{th}	A	6	
Rated operational current	I_e	A		
AC-15				
Make contact				
120 V	I_e	A	1.5	
240 V	I_e	A		
230 V	I_e	A	1.5	
415 V	I_e	A		
400 V	I_e	A	0.5	
500 V	I_e	A	0.3	
Break contact				
120 V	I_e	A	1.5	
240 V	I_e	A		
230 V	I_e	A	1.5	
415 V	I_e	A	0.7	
415 V	I_e	A		
400 V	I_e	A	0.7	
500 V	I_e	A	0.5	
DC-13 L/R - 15 ms				
24 V	I_e	A	0.9	
60 V	I_e	A	0.75	
110 V	I_e	A	0.4	
220 V	I_e	A	0.2	
Short-circuit rating without welding				
max. fuse		A gG/ gL	4	

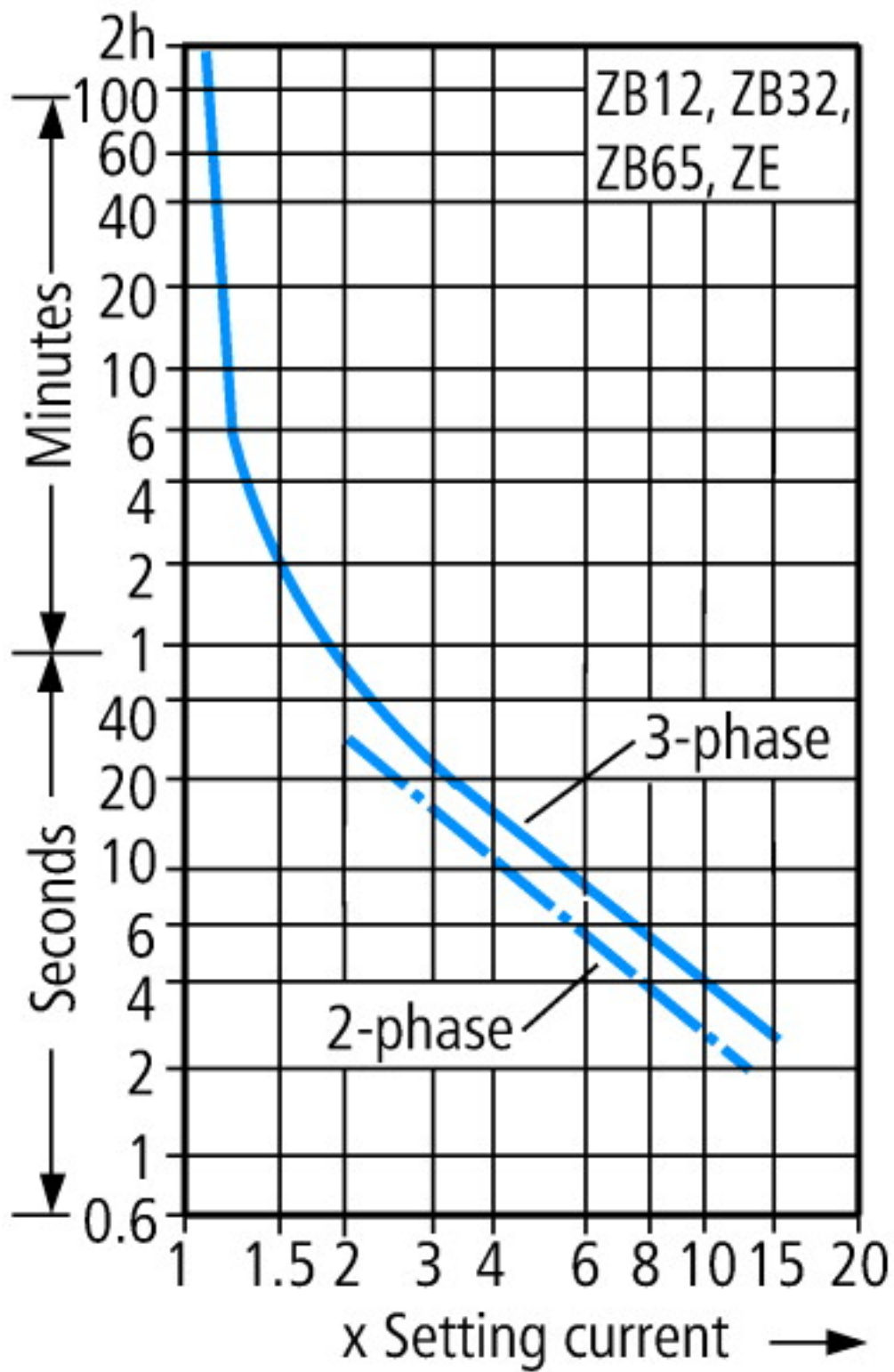
Notes

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 ETIM 4.0

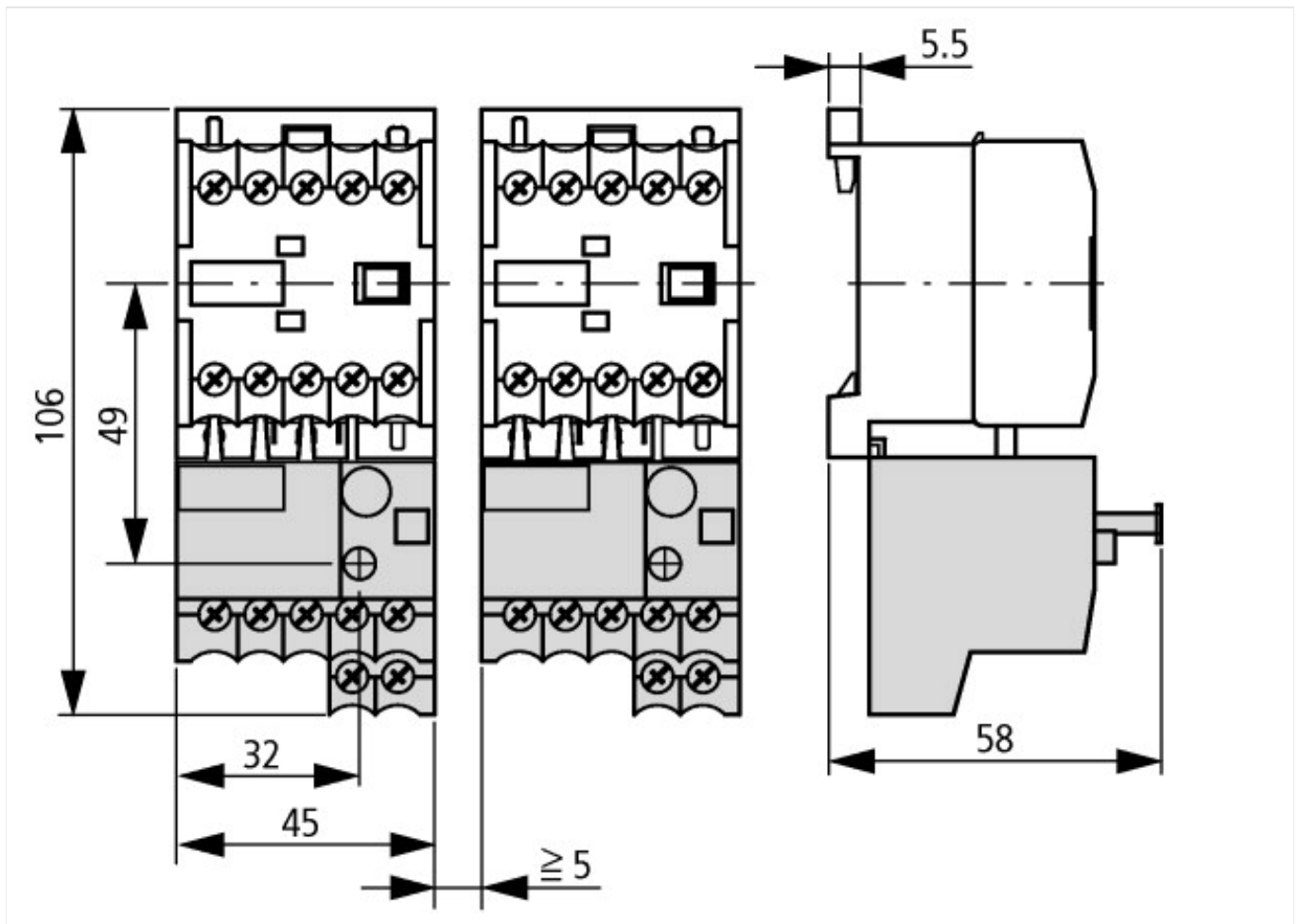
Adjustable current range		A	1.6 - 2.4
Mounting method			Direct attachment
Connection type main current circuit			Screw connection
Number of auxiliary contacts as normally closed contact			1
Number of auxiliary contacts as normally open contact			1
Number of auxiliary contacts as change-over contact			0
Release class			CLASS 10

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.

Dimensions



Additional product information (links)

IL03407007Z (AWA2300-0883) Overload relay

IL03407007Z (AWA2300-0883) Overload relay

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

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

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

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