




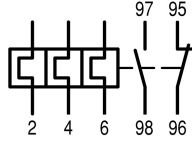


## Overload relay 1 - 1,6A



Powering Business Worldwide™

**Part no.** ZE-1,6  
**Article no.** 014432  
**Catalog No.** XTOM1P6AC1

### 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
<b>Setting range</b>			
Overload releases 	$I_r$	A	1 - 1.6
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



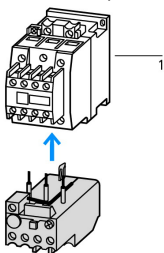
II (2) G

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 <sup>2</sup>	
Solid		mm <sup>2</sup>	2 x (0.75 - 2.5)
Flexible with ferrule		mm <sup>2</sup>	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 <sup>2</sup>	
Solid		mm <sup>2</sup>	2 x (0.75 - 2.5)
Flexible with ferrule		mm <sup>2</sup>	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	

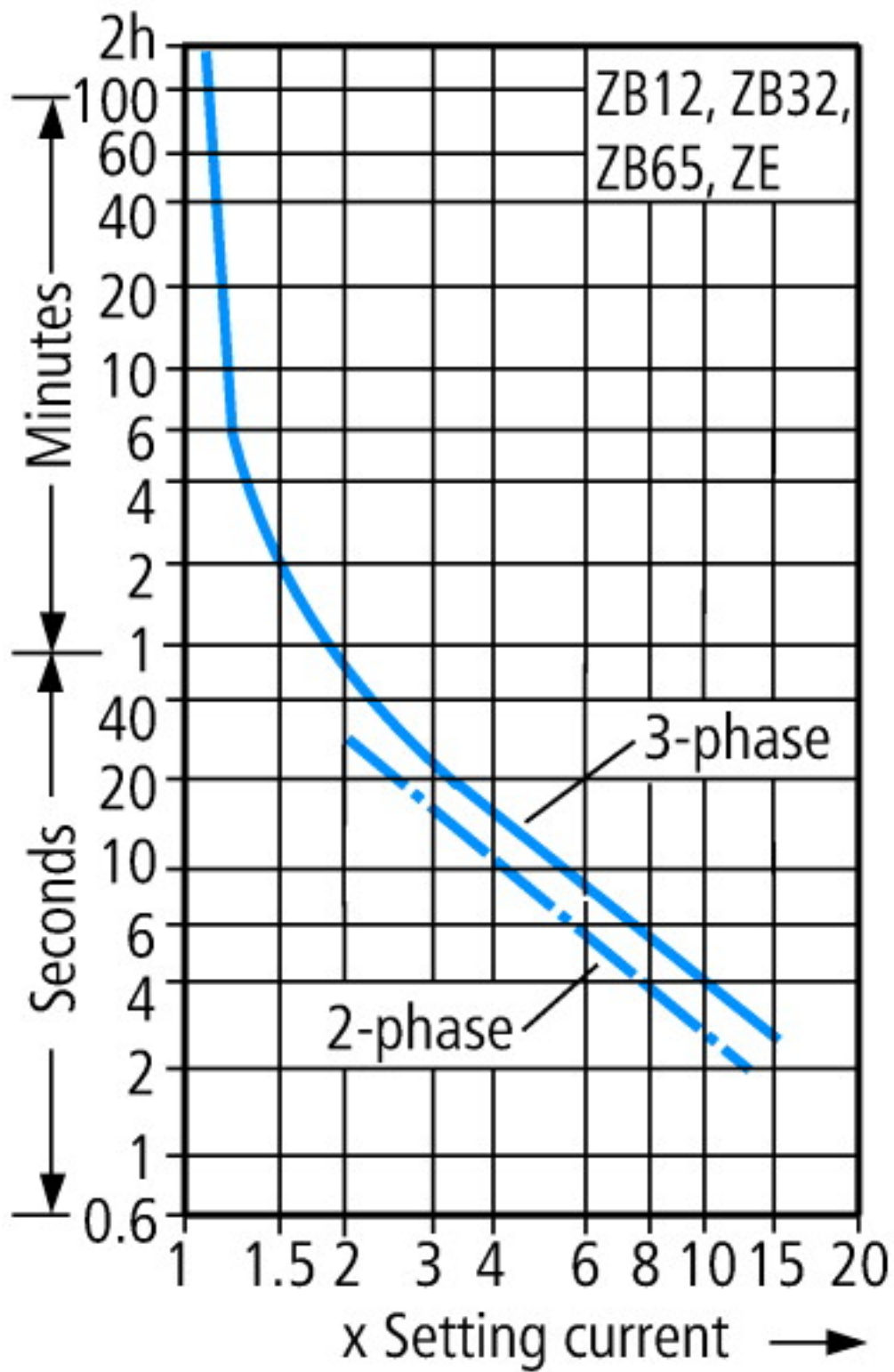
## Notes

**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

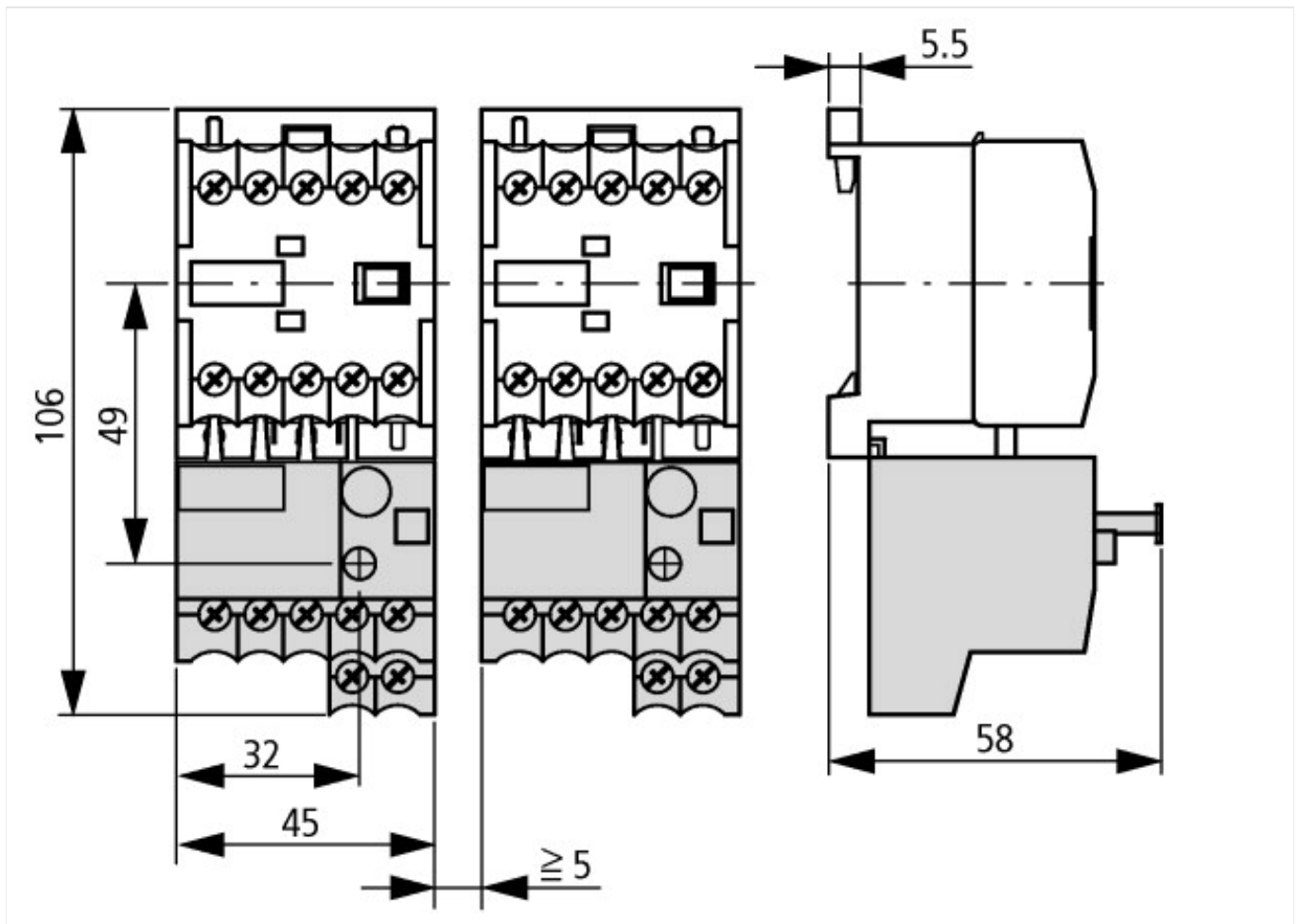
Adjustable current range		A	1 - 1.6
Mounting method			Direct attachment
Connection type main current circuit			Screw connection
Number of auxiliary contacts as normally closed contact			1
Number of auxiliary contacts as normally open contact			1
Number of auxiliary contacts as change-over contact			0
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](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](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN03407003Z_DE_EN.pdf)