

Overload relay, 4-6A, 1N/O+1N/C

Part no. ZB32-6
Article no. 278450
Catalog No. XT0B006CC1

Delivery programme

Product range
Frame size
Phase-failure sensitivity
Description

Mounting type



Contact sequence

Auxiliary contacts
N/O = Normally open
N/C = Normally closed
For use with

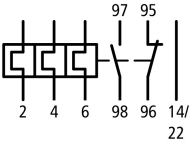
Short-circuit protection
Type "1" coordination



Type "2" coordination



Overload relay ZB up to 150 A
ZB32
IEC/EN 60947, VDE 0660 Part 102
Test/off button
Reset pushbutton manual/auto
Trip-free release
Direct mounting
4 - 6



1 N/O
1 N/C
DILM17, DILM25,
DILM32,
DILM38,
DILMF8
DILMF11
DILMF14
DILMF17
DILMF25
DILMF32
DIULM17, DIULM25,
DIULM32,
SDAINLM30,
SDAINLM45,
SDAINLM55

25

20

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.



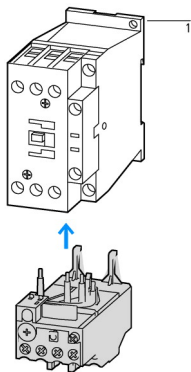
II (2) GD

PTB 10 ATEX 3010

Observe manual MN03407004Z-DE/EN.

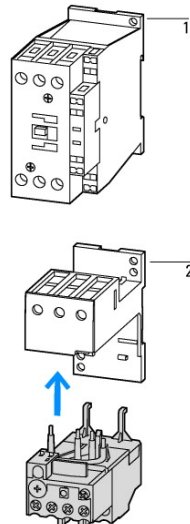
Notes

Fitted directly to the contactor



1 Contactor
2 Bases

Separate mounting



Approvals

Product Standards
UL File No.
UL Category Control No.
CSA File No.
CSA Class No.
North America Certification
Specially designed for North America
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

Climatic proofing

Ambient temperature

Open

Enclosed

Temperature compensation

Weight

Mechanical shock resistance

Protection type

Protection against direct contact when actuated from front (EN 50274)

		IEC/EN 60947, VDE 0660, UL, CSA
		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
	°C	
		Operating range to IEC/EN 60947 PTB: -5 °C - +55 °C
	°C	- 25 - 55
	°C	- 25 - 40
		Continuous
	kg	0.15
	g	10 Sinusoidal Shock duration 10 ms
		IP20
		Finger and back-of-hand proof

Main conducting paths

Rated impulse withstand voltage

Overvoltage category/pollution degree

Rated insulation voltage

Rated operational voltage

Safe isolation to EN 61140

Between auxiliary contacts and main contacts

Between main circuits

Temperature compensation residual error > 40 °C

Current heat loss (3 conductors)

Lower value of the setting range

Maximum setting

Terminal capacities

U_{imp}	V AC	6000
		III/3
U_i	V	690
U_e	V AC	690
	V AC	440
	V AC	440
		$\leq 0.25\%/K$
	W	2.5
	W	6
	mm ²	

Solid

Flexible with ferrule

Solid or stranded

Terminal screw

Tightening torque

Tools

Pozidriv screwdriver

Standard screwdriver

	mm ²	2 x (1 - 6)
	mm ²	2 x (1 - 4) With ferrules to DIN 46228
	AWG	14 - 8
		M4
	Nm	1.8
	Size	2
	mm	1 x 6

Auxiliary and control circuits

Rated impulse withstand voltage

Overvoltage category/pollution degree

Terminal capacities

U _{imp}	V	4000
		III/3
	mm ²	
	mm ²	2 x (0.75...4)
	mm ²	2 x (0.75 - 2.5)
	AWG	2 x (18 - 12)
		M3.5
	Nm	0.8 - 1.2

Solid

Flexible with ferrule

Solid or stranded

Terminal screw

Tightening torque

Tools

Pozidriv screwdriver

Standard screwdriver

	Size	2
	mm	1 x 6
U _i	V AC	500
U _e	V AC	500

Rated insulation voltage

Rated operational voltage

Safe isolation to EN 61140

between the auxiliary contacts

	V AC	240
I _{th}	A	6
I _e	A	

Conventional thermal current

Rated operational current

AC-15

Make contact

120 V

220 V 230 V 240 V

380 V 400 V 415 V

500 V

Break contact

120 V

220 V 230 V 240 V

380 V 400 V 415 V

500 V

I _e	A	1.5
I _e	A	1.5
I _e	A	0.5
I _e	A	0.5
I _e	A	1.5
I _e	A	1.5
I _e	A	0.9
I _e	A	0.8

DC-13 L/R - 15 ms

24 V

60 V

110 V

220 V

I _e	A	0.9
I _e	A	0.75
I _e	A	0.4
I _e	A	0.2

Short-circuit rating without welding

max. fuse

	A gG/ gL	6

Notes

Notes Ambient air temperature: Operating range to IEC/EN 60947, PTB: -5°C to +55°C
Rated operational current: Making and breaking conditions to DC-13, time constant as stated
Main circuits terminal capacity solid and flexible conductors with ferrules: When using 2 conductors use equal cross-sections
See overlay "Fuses" for short-circuit strength time/current characteristic (please enquire)
6 mm flexible with ferrules to DIN 46228
Rated operational current DC-13, 60 V: N/O auxiliary contact 0.6 A

Technical data ETIM 5.0

Low-voltage industrial components (EG000017) / Thermal overload relay (EC000106)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Thermal overload relay (ecl@ss8-27-37-15-01 [AKF075010])

Adjustable current range

A

4 - 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

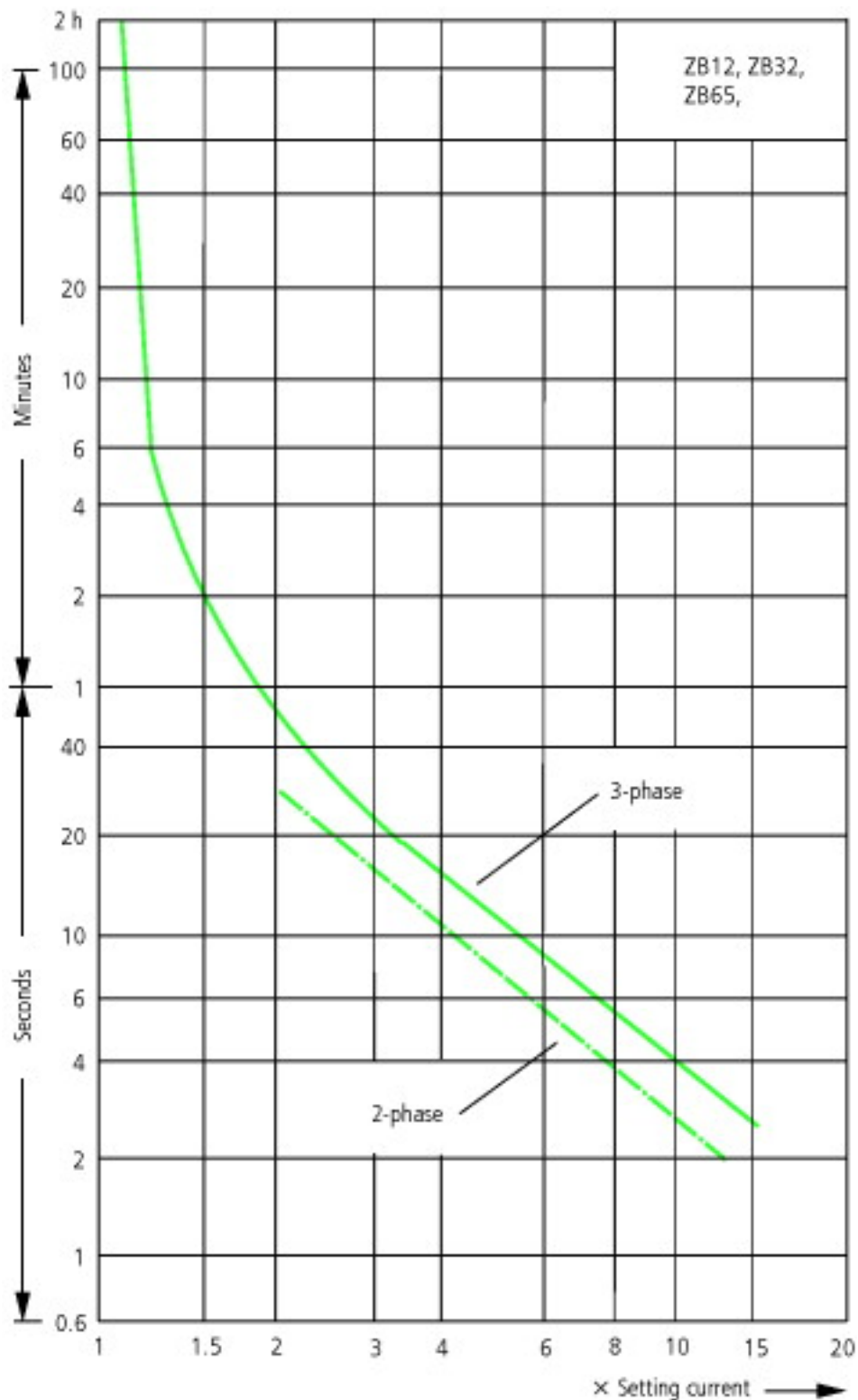
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Release class

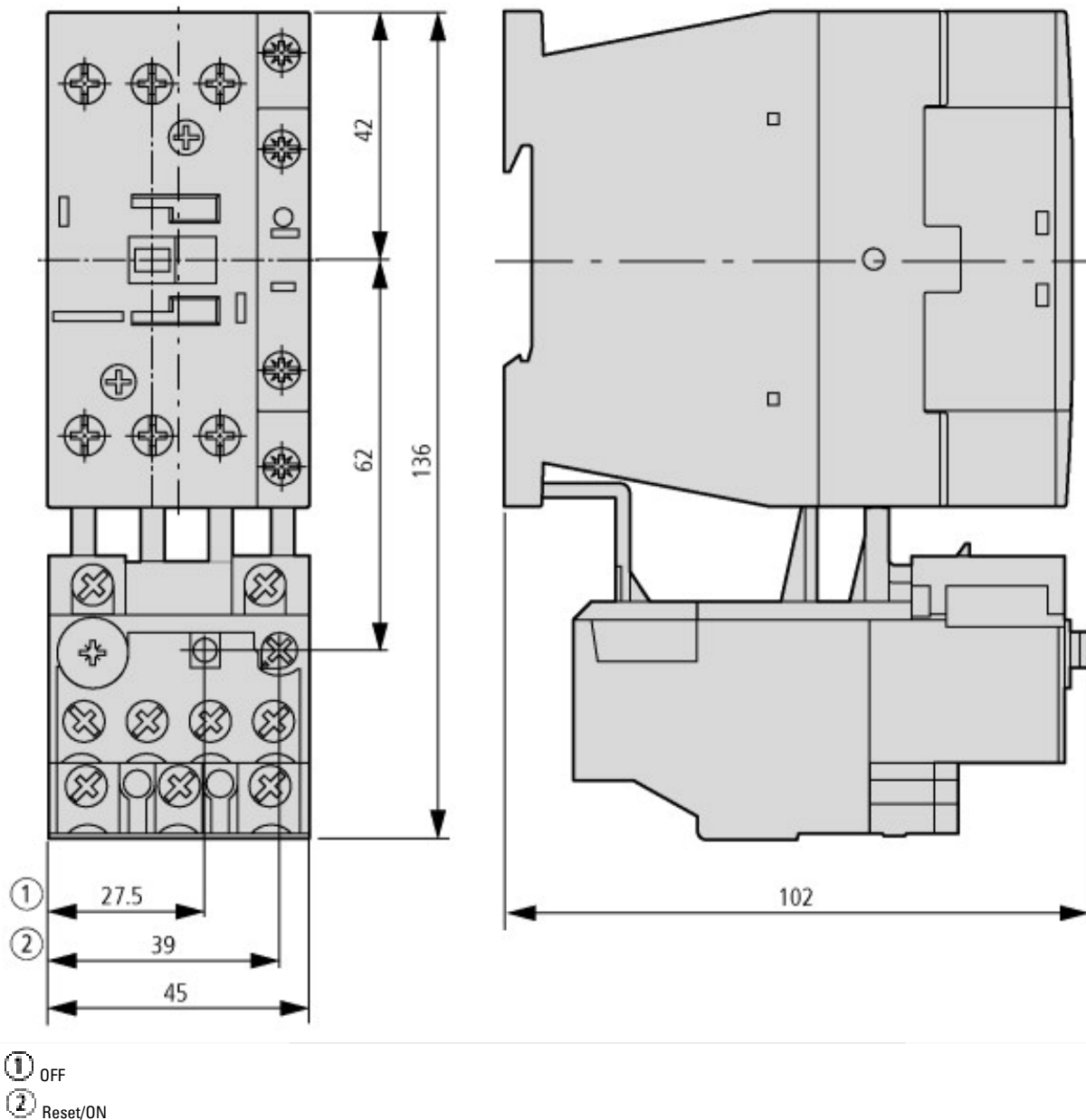
CLASS 10

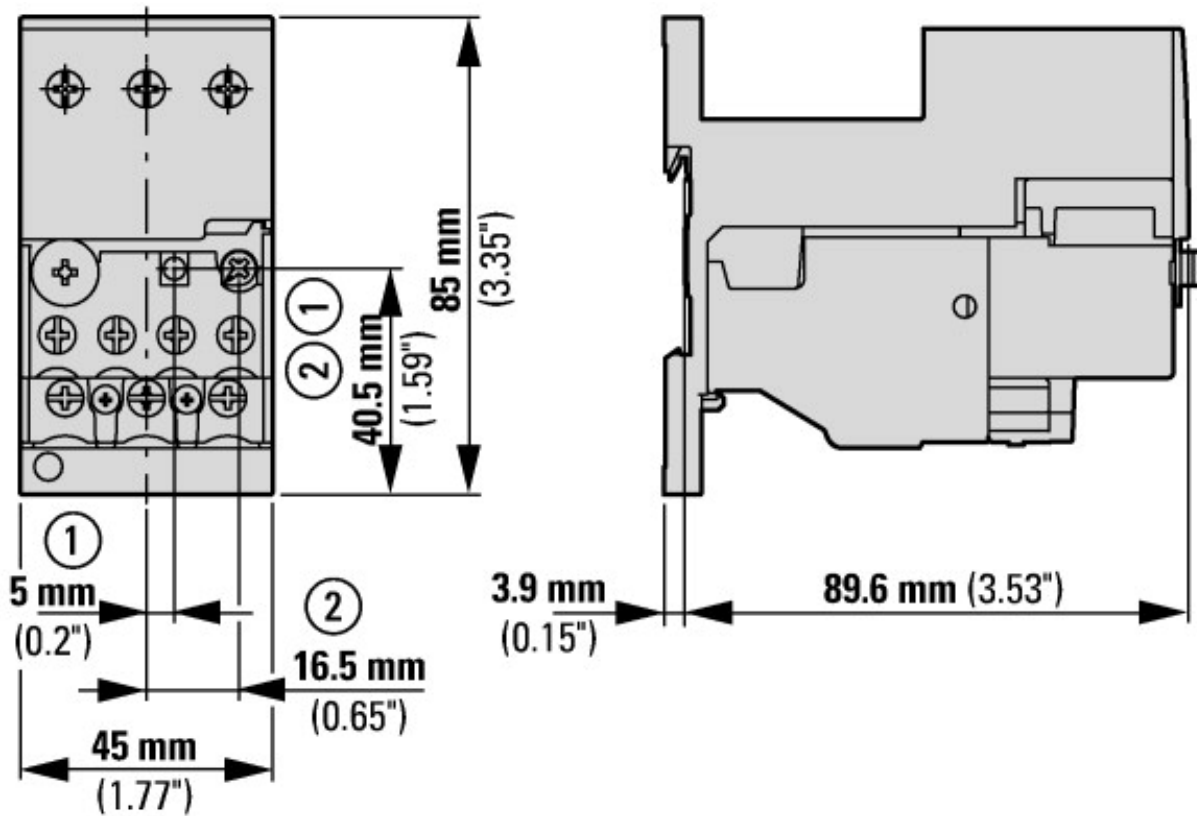
Characteristics

Characteristic curves



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.





With base ZB32-XEZ

Additional product information (links)

IL03407015Z (AWA2300-2114) Overload relay

IL03407015Z (AWA2300-2114) Overload relay

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407015Z2013_01.pdf

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