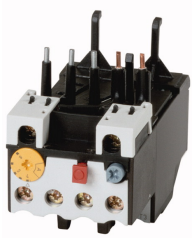


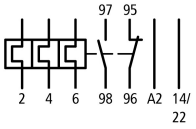
Overload relay 0,4 - 0,6A

Part no. **ZB12-0,6**

Article no. **278434**

Powering Business Worldwide™

Program

Product range			Overload relay ZB up to 150 A
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
	I_r	A	0.4 - 0.6
Contact sequence			
Auxiliary contacts			
N/O = Normally open			1 N/O
N/C = Normally closed			1 N/C
For use with			DILM7, DILM9, DILM12, DILM15, DIULM7, DIULM9, DIULM12, SDAINLM12, SDAINLM16, SDAINLM22
Short-circuit protection			
Type “1” coordination	gG/gL	A	25
Type “2” coordination	gG/gL	A	4

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.

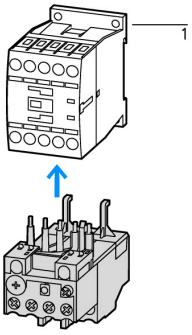
II (2) GD

PTB 10 ATEX 3010

Observe manual AWB2300-1527D/GB.

Notes

Fitted directly to the contactor



1 Contactor

Approbationen

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

UL File No.	E29184
UL CCN	NKCR
CSA File No.	12528
CSA Class No.	3211-03
NA Certification	UL listed, CSA certified
Specially designed for NA	No
Suitable for	Branch circuits
Max. Voltage Rating	600 V AC
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 - 55
Enclosed		°C	- 25 - 40
Temperature compensation			Continuous
Weight		kg	0.15
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	U_i	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	440
Between main circuits		V AC	440
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 (1 - 6)
Flexible with ferrule		mm^2	2 x (1 - 4) 2 x (1 - 6) 6 mm^2 Flexible with ferrules to DIN 46228
Solid or stranded		AWG	14 - 8
Terminal screw			M4
Tightening torque		Nm	1.8
Tools			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	1 x 6

Auxiliary and control circuits

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…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

Tools			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	1 x 6
Rated insulation voltage	U_i	V AC	500
Rated operational voltage	U_e	V AC	500
Safe isolation to VDE 0106 Part 101 and Part 101/A1			
between the auxiliary contacts		V AC	240
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	1.5
415 V	I_e	A	0.5
500 V	I_e	A	0.5
Break contact			
120 V	I_e	A	1.5
240 V	I_e	A	1.5
415 V	I_e	A	0.9
500 V	I_e	A	0.8
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	6

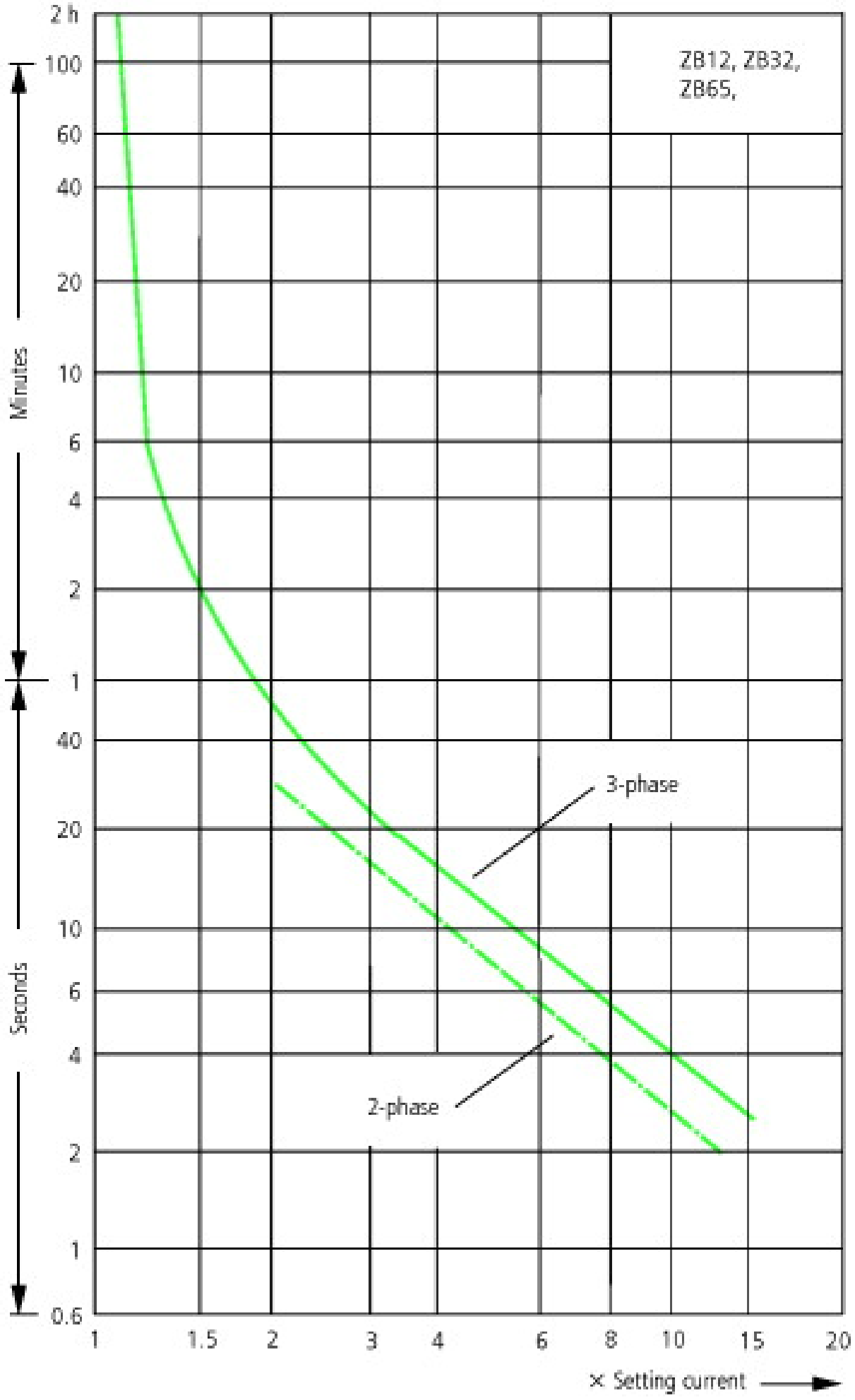
Notes

Notes Ambient temperature: Operating range to IEC/EN 60947, PTB: -5°C to +55°C
Rated operational current: Making and breaking conditions to DC-13, L/R constant as stated
Main contacts terminal capacity solid and stranded conductors with ferrules: When using 2 conductors use identical cross-section
See overlay “Fuses” for short-circuit rating 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
at ZB65-XEZ max 1 x (1…16)

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		A	0.6
Connection type main circuit			Screw connection
Tripping class			CLASS 10
Number of auxiliary contacts as changeover contacts			0

Characteristics

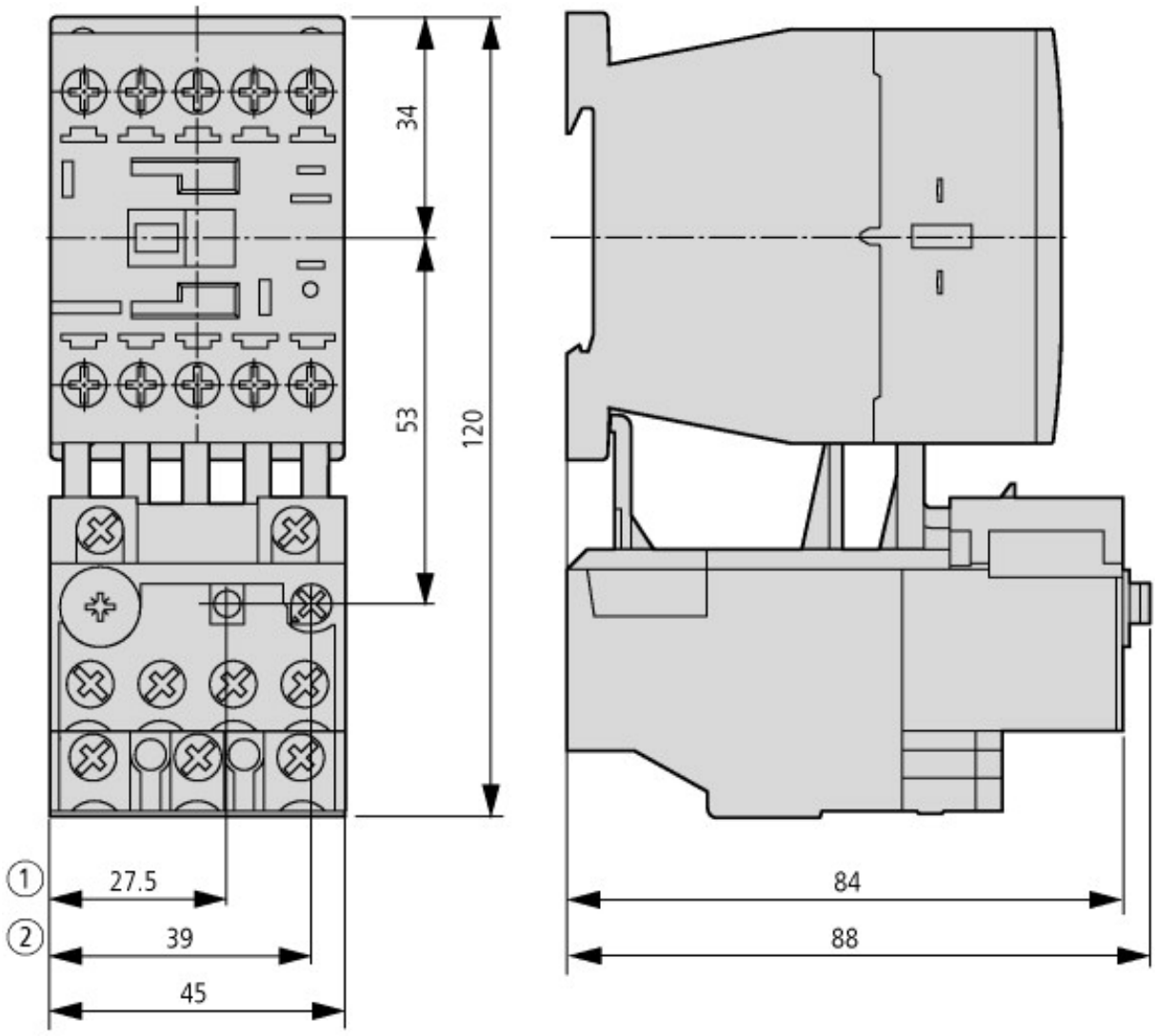


These tripping characteristics are mean values of the spread at 20 °C ambient temperature in a cold state. Tripping time depends on response current.
On devices at operating temperature the tripping time of the overload relay drops to approx. 25 % of the read value. Specific characteristics for each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

CAD-Data

Product standards CAD data:	http://eaton-moeller.partcommunity.com

Dimensions



① OFF
② Reset/ON

Additional product information (links)

IL03407015Z (IL03407015Z) Overload relay	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407015Z2010_10.pdf