

Overload relay 0,4 - 0,6A

Part no.





Article no. 278434

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	Α	0.4 - 0.6
Contact sequence			97 95 2 4 6 98 96 A2 14/ 22
Auxiliary contacts			
N/O = Normally open			1 N/0
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	Α	25
Type "2" coordination	gG/gL	Α	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.

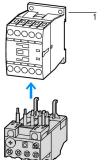


II (2) GD

PTB 10 ATEX 3010

Observe manual AWB2300-1527D/GB.

Fitted directly to the contactor



1 Contactor

Approbationen

UL approval CSA approval Product Standards

Yes

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

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

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 - 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	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	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	$2 \times (1 - 4)$ $2 \times (1 - 6)$ 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

Rated impulse withstand voltage	U_{imp}	V	6000
Overvoltage category/pollution degree			III/3
Terminal capacities		mm^2	
Solid		mm^2	2 x (0.754)
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

Positifive screwdriver Size of mm 1 x 6 Standard screwdriver U ₁ V ₂ V ₃ S00 Rated insulation voltage U ₂ V ₃ S00 Safe isolation to VDE 0106 Part 101 and Part 101/A1 ————————————————————————————————————	Tools			
Rated insulation voltage Ui VAC 500 Safe isolation to VDE 0106 Part 101 and Part 101/A1 YAC 500 between the auxiliary contacts VAC 240 Conventional thermal current Ib A 6 Rated operational current Ib A 6 AC-15 YAC A 10 Make contact YAC YAC YAC 240 Y Ib A 1.5 240 Y Ib A 0.5 300 Y Ib A 0.5 Break contact YAC YAC YAC 240 Y Ib A 0.5 Break contact YAC YAC YAC 240 Y Ib A 0.5 240 Y Ib A 0.9 300 Y Ib A 0.9 415 Y A 0.9 500 Y Ib A 0.9 60 Y A 0.9 <t< td=""><td>Pozidriv screwdriver</td><td></td><td>Size</td><td>2</td></t<>	Pozidriv screwdriver		Size	2
Rated operational voltage Ue VAC 500 Safe isolation to VDE 0106 Part 101 and Part 101/A1 VAC 240 between the auxiliary contacts VAC 240 Conventional thermal current Ie A 6 Rated operational current Ie A 6 AC-15 VAC VAC VAC Make contact VAC VAC VAC 240 V Ie A 1.5 415 V Ie A 0.5 500 V Ie A 0.5 Break contact VAC VAC VAC 120 V Ie A 0.5 Break contact VAC VAC VAC 120 V Ie A 0.5 415 V Ie A 0.5 415 V Ie A 0.9 500 V Ie A 0.8 DC-13 L/R - 15 ms VAC VAC VAC 60 V Ie <td< td=""><td>Standard screwdriver</td><td></td><td>mm</td><td>1 x 6</td></td<>	Standard screwdriver		mm	1 x 6
AC	Rated insulation voltage	Ui		500
between the auxiliary contacts V AC 240 Conventional thermal current Ie A 6 Rated operational current Ie A Image: Conventional current Ie A Image: Conventional current Ie A Ie	Rated operational voltage	U _e		500
Name	Safe isolation to VDE 0106 Part 101 and Part 101/A1			
Rated operational current	between the auxiliary contacts			240
AC-15 Make contact Ie A 1.5 120 V Ie A 1.5 240 V Ie A 0.5 415 V Ie A 0.5 Break contact Image: Contact of the	Conventional thermal current	I _{th}	Α	6
Make contact Ie A 1.5 120 V Ie A 1.5 240 V Ie A 0.5 500 V Ie A 0.5 Break contact V V V 120 V Ie A 1.5 240 V Ie A 0.9 415 V Ie A 0.9 500 V Ie A 0.8 DC-13 L/R - 15 ms V V V 60 V Ie A 0.9 60 V Ie A 0.75 110 V Ie A 0.4 220 V Ie A 0.2 Short-circuit rating without welding A A 6 max. fuse A 6 6	Rated operational current	l _e	Α	
120 V	AC-15			
240 V	Make contact			
He A 0.5 Soo V He A 0.5 Break contact	120 V	l _e	Α	1.5
Soo V Ie	240 V	l _e	Α	1.5
Break contact I _e	415 V	l _e	Α	0.5
120 V Ie A 1.5 240 V Ie A 1.5 415 V Ie A 0.9 500 V Ie A 0.8 DC-13 L/R - 15 ms	500 V	l _e	Α	0.5
1e	Break contact			
A 0.9	120 V	l _e	Α	1.5
Foo V File	240 V	l _e	Α	1.5
DC-13 L/R - 15 ms 24 V 1e A 0.9 60 V 1e A 0.75 110 V 1e A 0.4 220 V Short-circuit rating without welding max. fuse A 6 gG/	415 V	I _e	Α	0.9
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	500 V	l _e	Α	0.8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	DC-13 L/R - 15 ms			
110 V I _e A 0.4 220 V I _e A 0.2 Short-circuit rating without welding max. fuse A 6	24 V	l _e	Α	0.9
220 V I _e A 0.2 Short-circuit rating without welding max. fuse A 6 gG/	60 V	I _e	Α	0.75
Short-circuit rating without welding max. fuse A 6 gG/	110 V	l _e	Α	0.4
max. fuse A G	220 V	l _e	Α	0.2
gG/	Short-circuit rating without welding			
	max. fuse		gG/	6

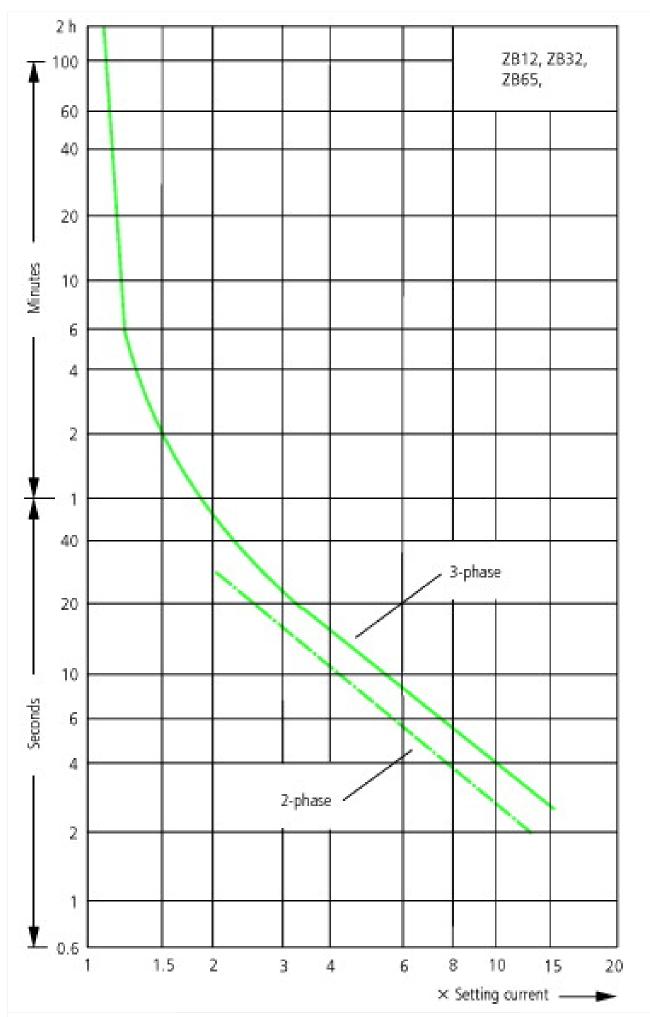
Notes

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

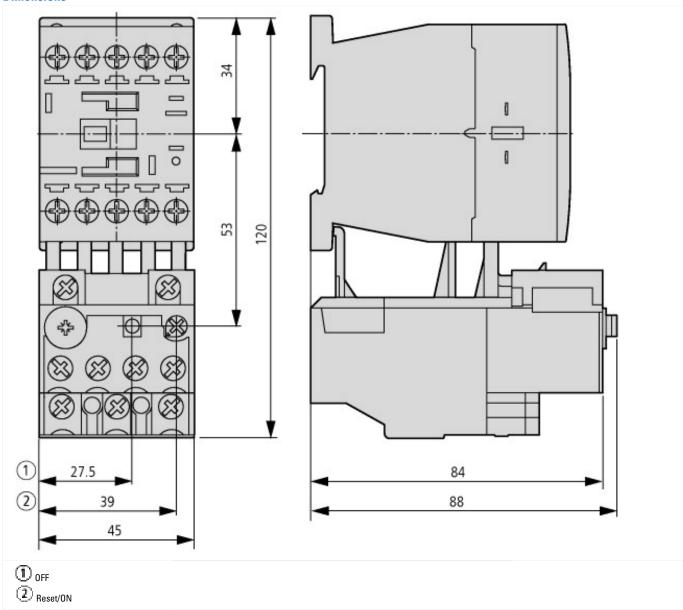
Characteristics



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.

Dimensions



Additional product information (links)

IL03407015Z (IL03407015Z) Overload relay

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407015Z2010_10.pdf