



Overload relay 35-50

Part no.

ZB150-50

Article no.

278462

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
Overload releases	I_r	A	35 - 50
Contact sequence			
Auxiliary contacts			1 N/O
N/O = Normally open			1 N/O
N/C = Normally closed			1 N/C
For use with			DILM80, DILM95, DILM115, DILM150, DILM170 DILMF80, DILMF95, DILMF115, DILMF150, DIULM80, DIULM95, DIULM115, DIULM150, SDAINLM140, SDAINLM165, SDAINLM200, SDAINLM260
Short-circuit protection			
Type "1" coordination	gG/gL	A	160
Type "2" coordination	gG/gL	A	125

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.



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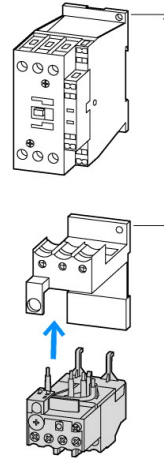
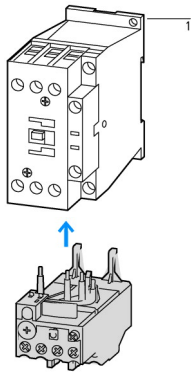
PTB 10 ATEX 3010

Observe manual AWB2300-1527D/GB.

Notes

Fitted directly to the contactor

Separate mounting



1 Contactor
2 Bases

Approbationen

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; CE marking
E29184
NKCR
12528
3211-03
UL Listed, CSA certified
No
Branch circuits
600 V AC
IEC: IP00, 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
Weights		kg	1.64
Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27		g	10
Protection type			IP00
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	8000
Overvoltage category/pollution degree			III/3
Rated insulation voltage			
AC	U_i	V AC	1000
Rated operational voltage	U_e	V AC	1000
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			$\approx 0.25\%/K$
Current heat loss (3 conductors)			
Lower value of the setting range		W	16
Maximum setting		W	18
Terminal capacities		mm ²	
Solid		mm ²	2 x (4 - 16)
Flexible with ferrule		mm ²	1 x (4 - 70) 2 x (4 - 50)
Stranded		mm ²	1 x (16...50) 2 x (16...50)

Solid or stranded		AWG	2/0
Terminal screw			M10
Tightening torque		Nm	10
Tools			
Hexagon socket-head spanner	SW	mm	5

Auxiliary and control circuits

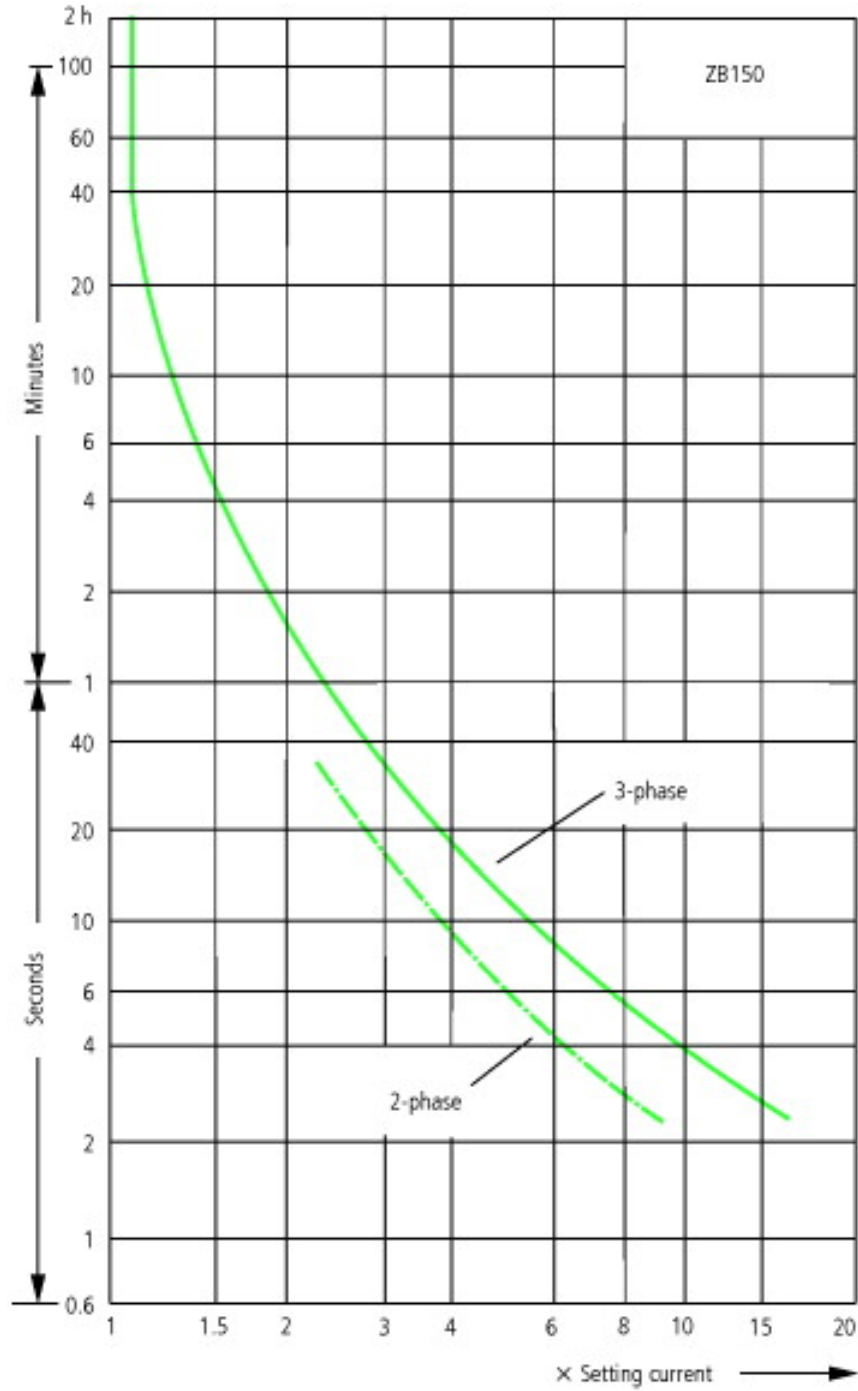
Rated impulse withstand voltage	U_{imp}	V	6000
Overvoltage category/pollution degree			III/3
Terminal capacities		mm ²	
Solid		mm ²	2 x (0,75 - 4)
Flexible with ferrule		mm ²	2 x (0.75 - 2.5)
Solid or stranded		AWG	2 x (18 - 12)
Terminal screw			M3.5
Tightening torque		Nm	0.8 - 1.2
Tools			
Pozidriv 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	50
Connection type main circuit			Screw connection



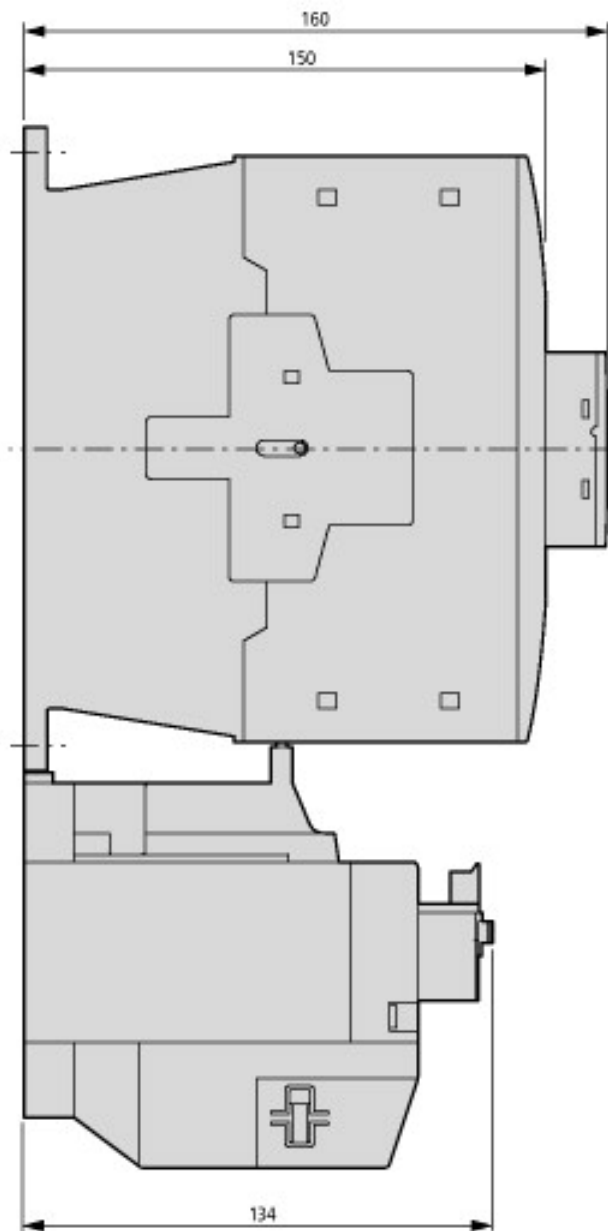
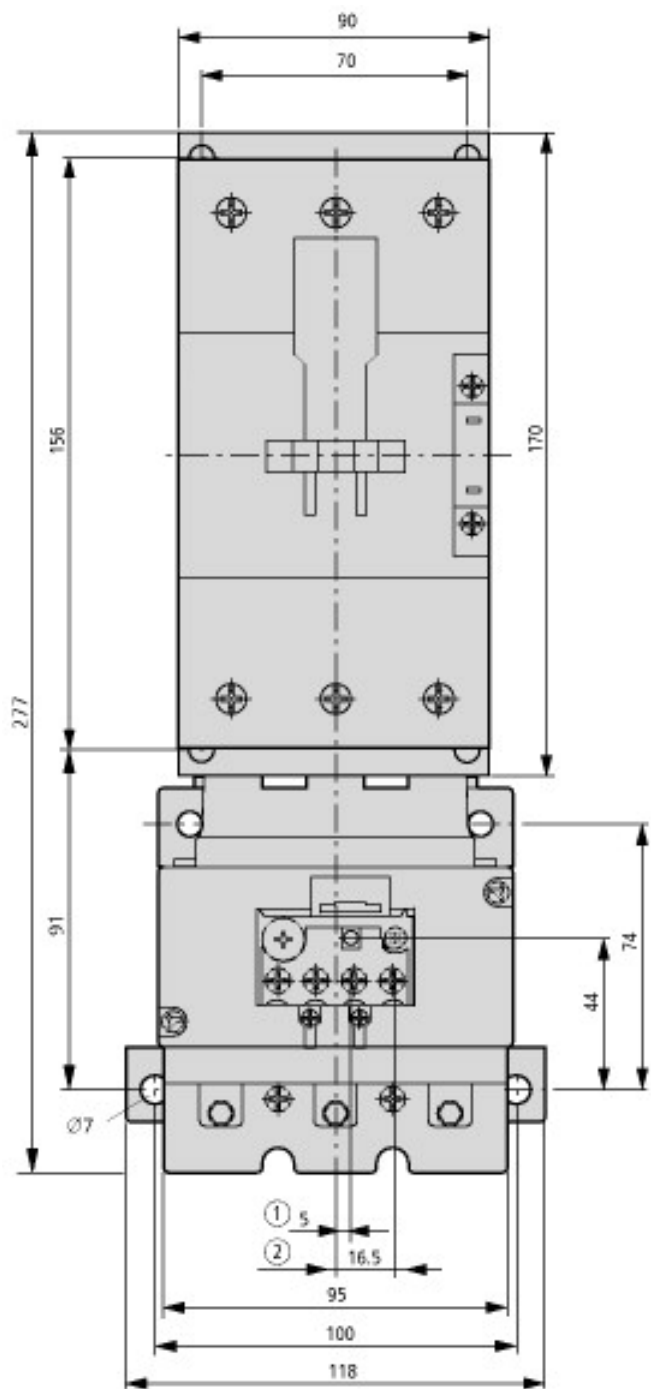
These tripping characteristics are mean values of the spread at 20 °C ambient temperature in a cold state. Tripping time depends on response current. On devices at operating temperature the tripping time of the overload relay drops to approx. 25 % of the read value. Specific characteristics for each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

AWA2300-2115 (IL03407006Z) Overload relay

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/21150907.pdf