




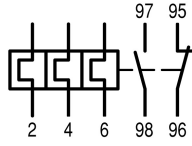


Overload relay, 120-142A, 1N/O+1N/C



Powering Business Worldwide™

Part no. ZB150-150
Article no. 278466
Catalog No. XTOB150GC1

Delivery programme

Product range			Overload relay ZB up to 150 A
Frame size			ZB150
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	120 - 150
Contact sequence			
Auxiliary contacts			
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	315
Type "2" coordination 	gG/gL	A	250

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.



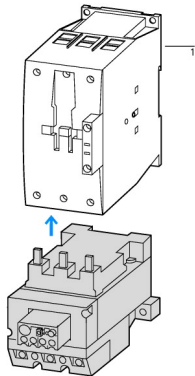
II (2) GD

PTB 10 ATEX 3010

Observe manual MN03407005Z-DE/EN.

Notes

Fitted directly to the contactor



1 Contactor
2 Bases

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: 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
Weight		kg	1.64
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	8000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	U_i	V	1000
Rated operational voltage	U_e	V AC	1000
Safe isolation to EN 61140			
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	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	4000
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 EN 61140			
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
220 V 230 V 240 V	I_e	A	1,5
380 V 400 V 415 V	I_e	A	0,5
500 V	I_e	A	0,5
Break contact			
120 V	I_e	A	1,5
220 V 230 V 240 V	I_e	A	1,5
380 V 400 V 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 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
6 mm flexible with ferrules to DIN 46228
Rated operational current DC-13, 60 V: N/O auxiliary contact 0.6 A

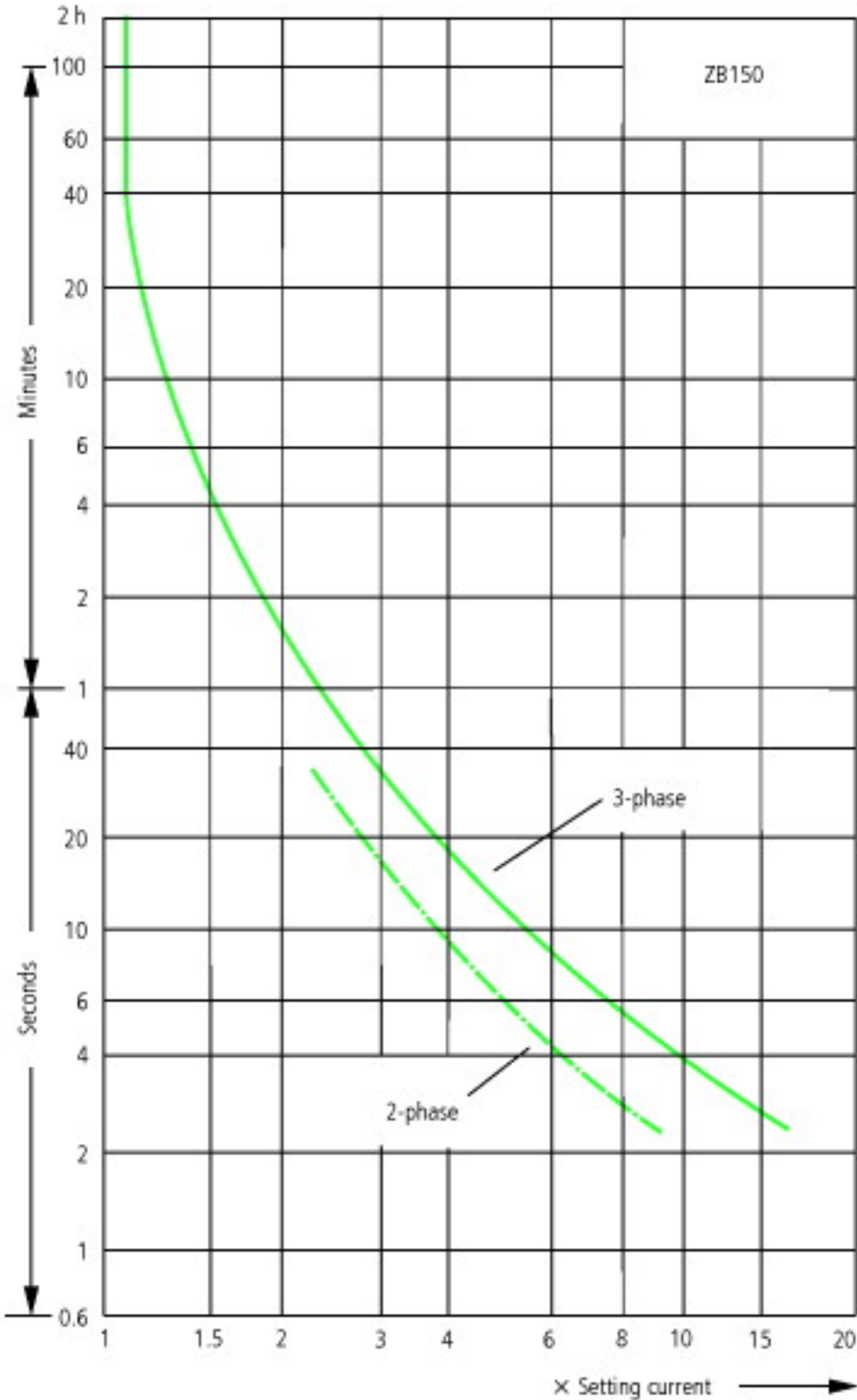
Technical data ETIM 5.0

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

Adjustable current range		A	120 - 150
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

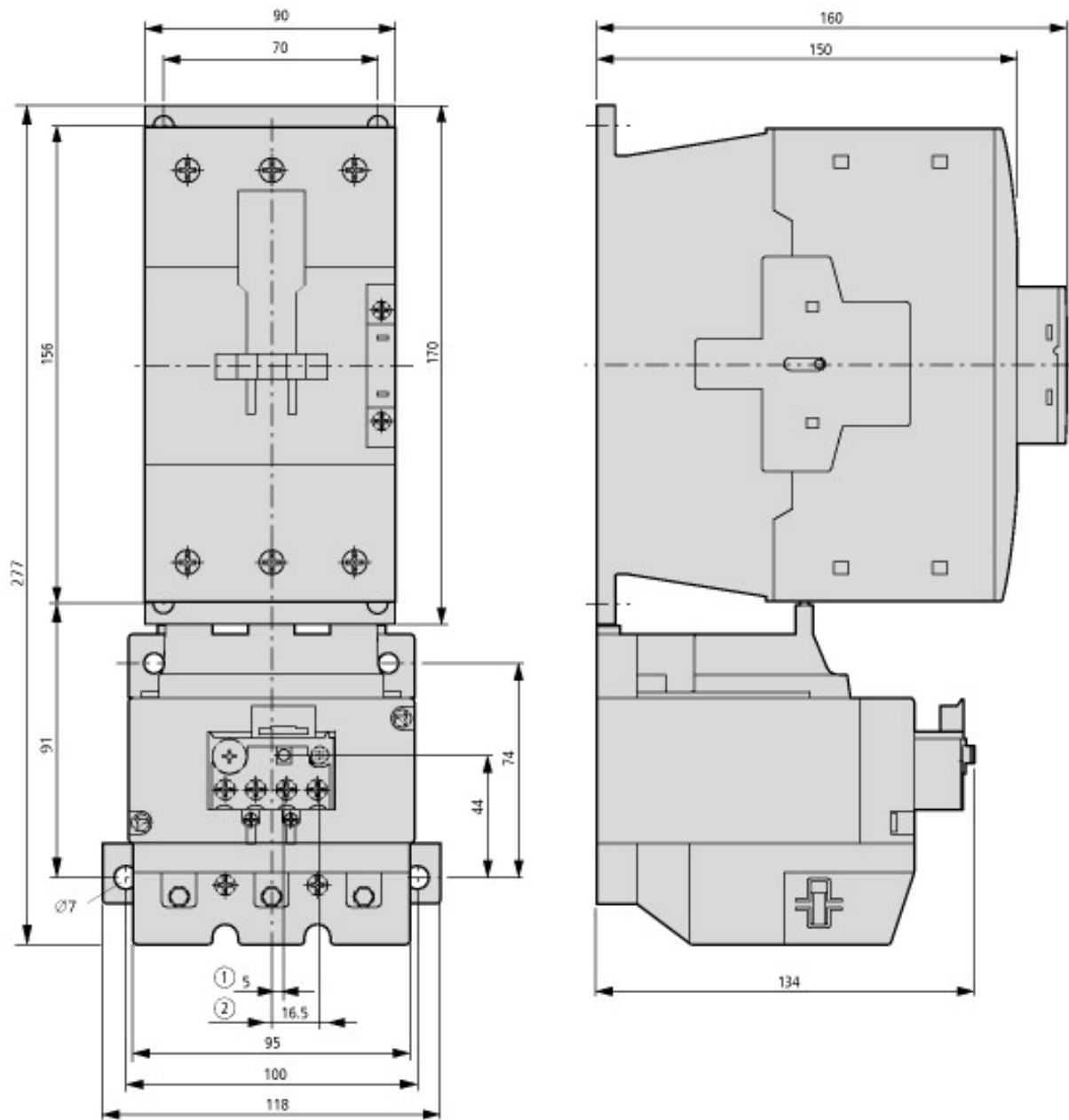
Characteristics

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.

Dimensions



- ① OFF
- ② Reset/ON

Additional product information (links)

IL03407006Z (AWA2300-1276) Overload relay

IL03407006Z (AWA2300-1276) Overload relay

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407006Z2013_01.pdf

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[7563K84](#) [7634K36](#) [MDQ-3/16](#) [MDQ-7/10](#) [MDQ-V-1/10](#) [MDQ-V-1-1/4](#) [MDQ-V-1/16](#) [MDQ-V-1/2](#) [MDQ-V-1/4](#) [MDQ-V-3/16](#) [MDQ-V-3/8](#)