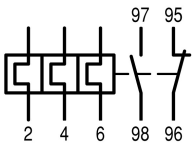
Overload relay 95-125A

Part no. ZB150-125

Article no. 278465

Powering Business Worldwide™

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	95 - 125
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.

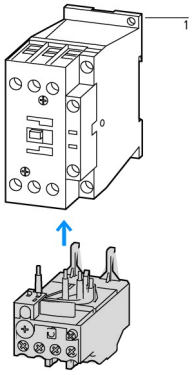
II (2) GD

PTB 10 ATEX 3010

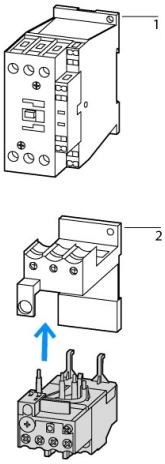
Observe manual MN03407005Z-DE/EN.

Notes

Fitted directly to the contactor



Separate mounting



1 Contactor
2 Bases

Approvals

Product Standards	UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; IEC/EN 60947-5-1; 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: 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			IP00
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 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	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 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

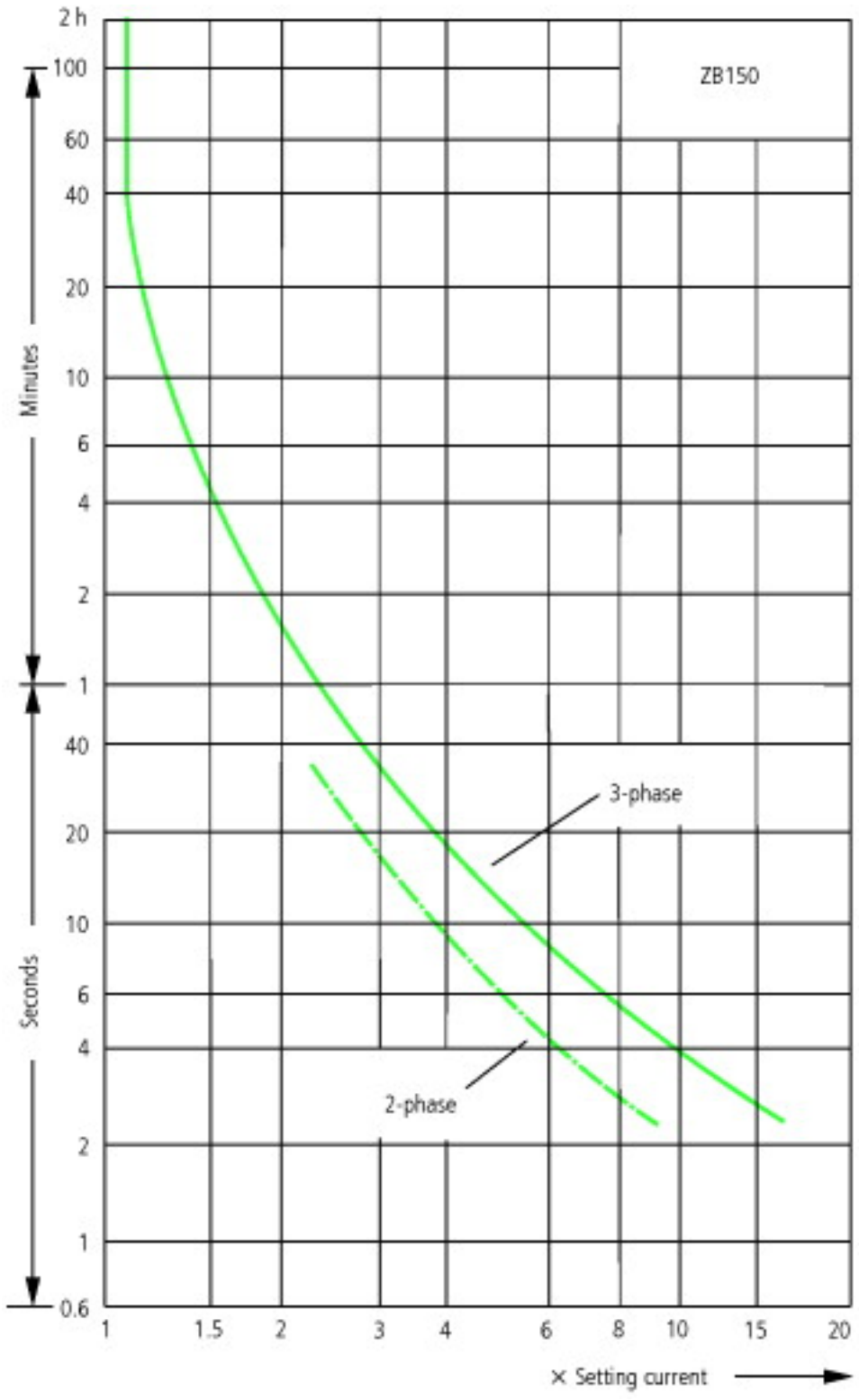
Notes

Notes Umgebungstemperatur: Arbeitsbereich nach IEC/EN 60947, PTB: -5 °C bis +55°C
Bemessungsbetriebsstrom: Ein- und Ausschaltbedingungen nach DC-13, L/R konstant nach Angabe
Anschlussquerschnitte Hauptstrombahnen eindrähtig und feindrähtig mit Aderendhülse: Bei Verwendung von 2 Leitern gleichen Querschnitt verwenden
Kurzschlussfestigkeit: Zeit-/Strom-Kennlinien nach Auflegeblatt "Schmelzsicherungen" (auf Anfrage)
6 mm^2 feindrähtig mit Aderendhülse nach DIN 46228
Bemessungsbetriebsstrom DC-13, 60 V: Hilfsschließer 0.6 A

Technical data ETIM 4.0

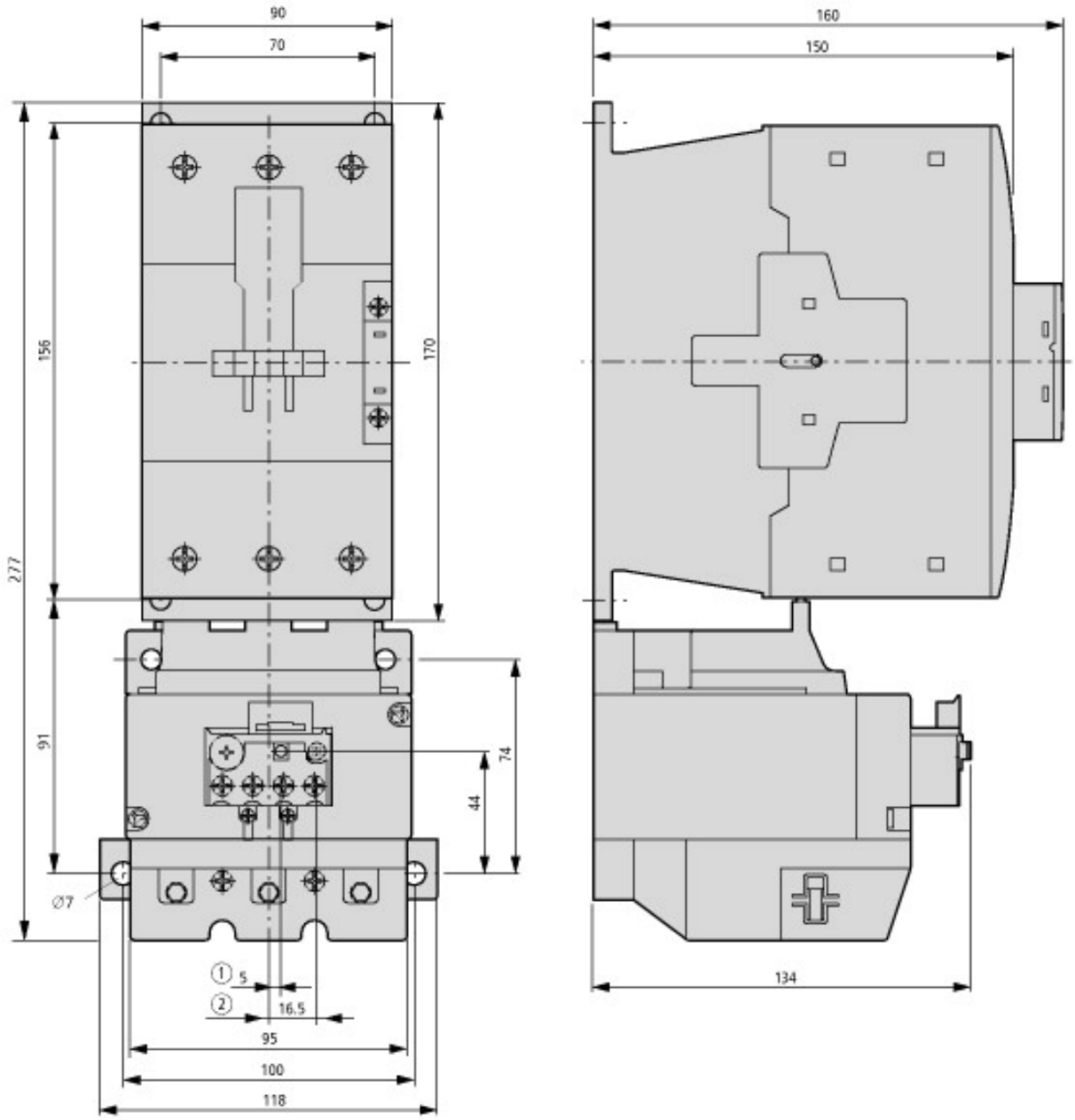
Number of auxiliary contacts as N/Cs			1
Number of auxiliary contacts as N/Os			1
Mounting type			Direct mounting
Adjustable current range		A	125
Connection type main circuit			Screw connection
Tripping class			CLASS 10
Number of auxiliary contacts as changeover contacts			0

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



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/IL03407006Z2010_10.pdf