

Overload relay, 145-175A, 1N/O+1N/C

ZB150-175 107316 Catalog No. XTOB175GC1

Part no.

Article no.

FAT•N Powering Business Worldwide"

Delivery programme

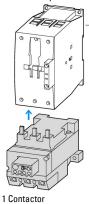
Product range			Overload relay ZB up to 150 A
Frame size			ZB150
Phase-failure sensitivity			IEC/EN 60947, VDE 0660 Part 102
Description			Test/off button Reset pushbutton manual/auto Trip-free release
Mounting type			Direct mounting
¢	I _r	A	145 - 175
Contact sequence			$\begin{bmatrix} 1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\$
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, DILMF95, DILMF15, DILMF150, DIULM80, DIULM95, DIULM115, DIULM150, SDAINLM140, SDAINLM165, 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.

Notes Fitted directly to the contactor



2 Bases

General			
Standards Climatic proofing			IEC/EN 60947, VDE 0660, UL, CSA Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
<u>^</u>			Operating range to IEC/EN 60947
Open		°C	-25 - +55
Enclosed		°C	- 25 - 40
Temperature compensation		l.v.	Continuous
Weight		kg	1.64
Mechanical shock resistance		g	10 Sinusoidal Shock duration 10 ms
Degree of Protection			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			111/3
Rated insulation voltage	Ui	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
Temperatur 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 (1650) 2 x (1650)
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			111/3
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 - 14)
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	Ui	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	le	А	
AC-15			
Make contact			
120 V	۱ _e	А	1.5
220 V 230 V 240 V	۱ _e	А	1.5
380 V 400 V 415 V	۱ _e	А	0.5
500 V	le	А	0.5
Break contact			
120 V	۱ _e	А	1.5
220 V 230 V 240 V	۱ _e	А	1.5
380 V 400 V 415 V	۱ _e	А	0.9
500 V	۱ _e	А	0.8
DC-13 L/R - 15 ms			
24 V	۱ _e	А	0.9
60 V	۱ _e	А	0.75
110 V	۱ _e	А	0.4
220 V	le	А	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

Design verification as per IEC/EN 61439

Rated operational current for specified heat dissipationInA175Heat dissipation per pole, current-dependentPvidW11.5Equipment heat dissipation, current-dependentPvidW34.5Static heat dissipation, non-current-dependentPvsW0Heat dissipation capacityPdissW0Operating ambient temperature min.°C25Operating ambient temperature max.°C55				
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10.9.3 Impulse withstand voltage Is the panel builder's responsibility.	10.9 Insulation properties			
	10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility.	10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
	10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.

10.10 Temperature rise

10.11 Short-circuit rating

10.12 Electromagnetic compatibility

10.13 Mechanical function

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 6.0

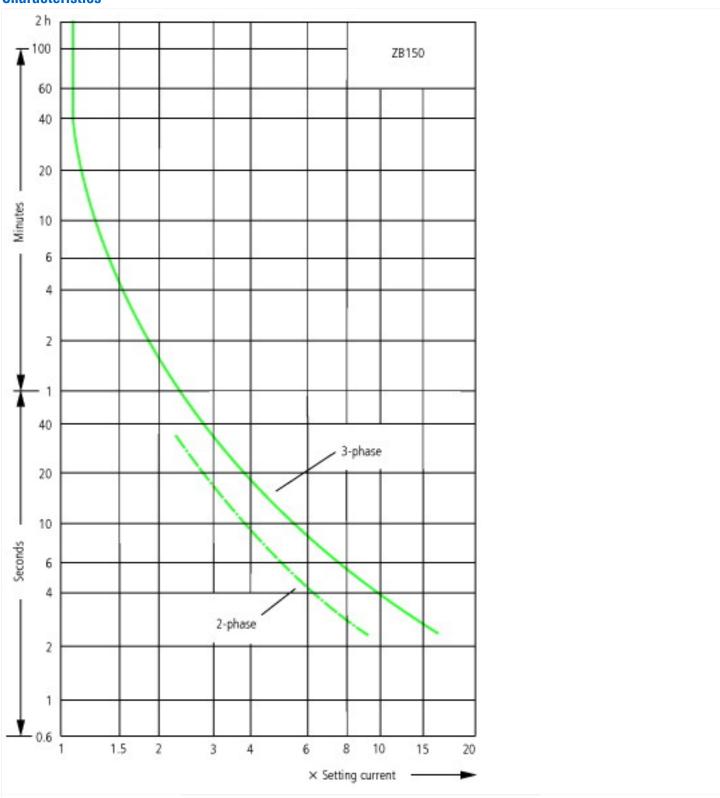
Low-voltage industrial components (EG000017) / Thermal overload relay (EC000106)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Thermal overload relay (ecl@ss8.1-27-37-15-01 [AKF075011])			
Adjustable current range	Д	4	145 - 175
Max. rated operation voltage Ue	V	/	1000
Mounting method			Direct attachment
Type of electrical connection of main 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

Approvals

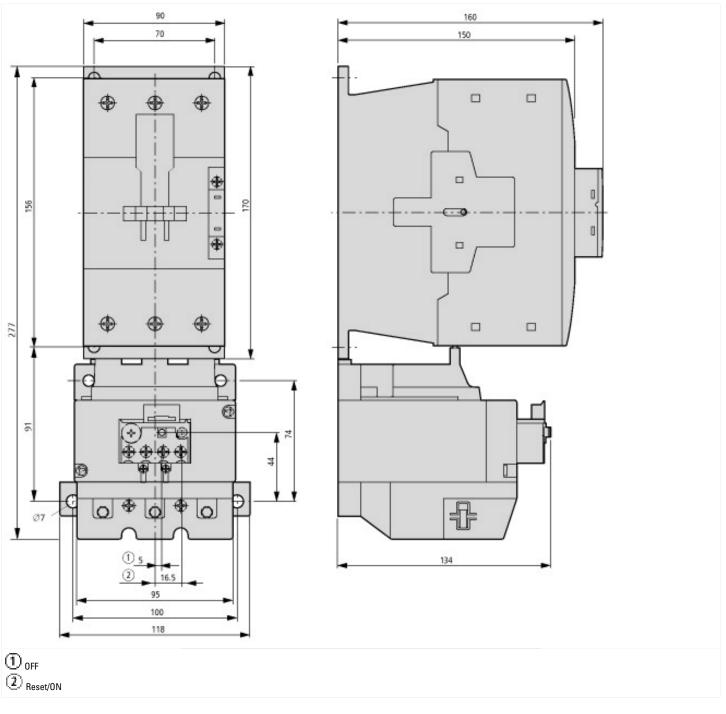
Product Standards	UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; IEC/EN 60947-5-1; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	12528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Specially designed for North America	No
Suitable for	Branch circuits
Max. Voltage Rating	600 V AC
Degree of Protection	IEC: IP00, UL/CSA Type: -





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)

IL03407006Z (AWA2300-1276) Overload relay

IL03407006Z (AWA2300-1276) Overload relay ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407006Z2014_08.pdf

MN03407005Z (AWB2300-1545) ZB65 and ZB150 overload relays - overload monitoring of Ex e motors

MN03407005Z (AWB2300-1545) ZB65 and ZB150 ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN03407005Z_DE_EN.pdf overload relays - overload monitoring of Ex e motors - Deutsch / English