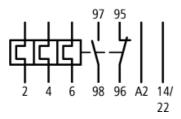


Type: **ZB12–1** Article No.: **278435**



Ordering information			
Overload release, min. – max.	<i>I</i> _r	Α	0,6 – 1
Auxiliary contacts M = Make			1 M
Auxiliary contacts B = Break			1 B
For use with			DILM7, DILM9, DILM12, DIULM7, DIULM9, DIULM12, SDAINLM12, SDAINLM16, SDAINLM22
Short-circuit protection Type "1" coordination	gG/gL	Α	25
Short-circuit protection Type "2" coordination	gG/gL	Α	4

Contact sequence



Note concerning the product

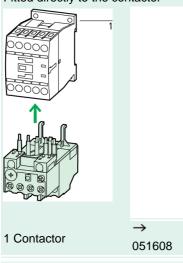
Overload release: tripping class 10 A

Short-circuit protection: Observe the maximum permissible fuse of the contactor with direct device mounting.

Suitable for protection of EEx e-motors. EC prototype test certification on request.

Notes concerning the product group

Fitted directly to the contactor



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			
Open		°C	-25/50
Enclosed		°C	-25/40
Temperature compensation			Continuous
Weight			
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 (IEC 536)			Finger- and back-of-hand proof
Main conducting paths			
Rated impulse withstand voltage	$U_{\rm imp}$	V AC	6000
Overvoltage category/pollution degree			III/3
Rated insulation voltage			
AC	<i>U</i> i	V AC	690
Rated operational voltage	<i>U</i> 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
Overload release setting range		Α	0,1 – 32
Temperature compensation residual error > 20°C		%/K	f 0.25
Current heat loss (3 conductors)			
Lower value of the setting range		W	2,5
Maximum setting		W	6
Terminal capacities			
Solid		mm ²	2 × (1 – 6)
Flexible with ferrule		mm ²	2 × (1 – 4) 2 × (1 – 6)

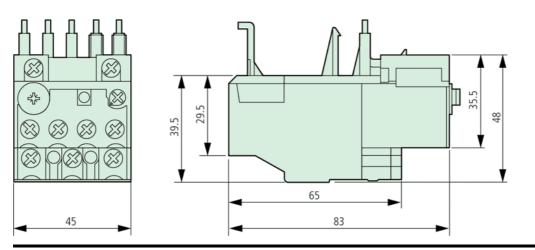
Solid or stranded		AWG	14 – 8
Terminal screw			M4
Tightening torque		Nm	1.8
Tools			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	1 × 6
Auxiliary and control circuits			
Rated impulse withstand voltage	$U_{\rm imp}$	V	6000
Overvoltage category/pollution degree			III/3
Terminal capacities			
Solid		mm ²	2 × (0.75 – 4)
Flexible with ferrule		mm2	$2 \times (0.75 - 2.5)$
Solid or stranded		AWG	2 × (18 – 12)
Terminal screw			M3.5
Tightening torque		Nm	0.8 – 1.2
Tools			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	1 × 6
Rated insulation voltage	<i>U</i> i	V AC	500
Rated operational voltage	<i>U</i> 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>I</i> th	А	6
Rated operational current			
AC-15			
Make contact			
120 V	I _e	Α	1,5
240 V	I _e	Α	1,5
415 V	I _e	Α	0,5
500 V	<i>I</i> e	Α	0,5
Break contact			
120 V	<i>I</i> e	Α	1,5
240 V	<i>I</i> e	Α	1,5
415 V	l _e	Α	0,9
500 V	I _e	А	0,8
DC-13 L/R f 15 ms			
24 V	I _e	Α	0,9
60 V	<i>I</i> e	Α	0,75
110 V	<i>I</i> e	Α	0,4
220 V	l _e	Α	0,2
Short-circuit rating without welding			
max. fuse		A gG/gL	6
Notes			
			Ambient temperature: operating range to IEC/EN 60947, PTB: -5° C to +50° C Rated operational current: Making and

breaking conditions to DC-13, L/R constant as stated See overlay: "Fuses" for short-circuit rating

See overlay: "Fuses" for short–circuit rating time/current characteristic (please enquire) 6 mm² flexible with ferrules to DIN 46228

Dimensions

Dimensions



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