DATASHEET - ZB32-6



Overload relay, ZB32, Ir= 4 - 6 A, 1 N/O, 1 N/C, Direct mounting, IP20



Part no. ZB32-6 Catalog No. 278450 Alternate Catalog XTOB006CC1

No.

EL-Nummer 0004131845

(Norway)

Delivery program

Delivery program			
Product range			Overload relay ZB up to 150 A
Product range			Accessories
Accessories			Overload relays
Frame size			ZB32
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
4	l _r	Α	4 - 6
Contact sequence			97 95 1 4 6 98 96 14/ 2 2 2
Auxiliary contacts			
N/O = Normally open			1 N/0
N/C = Normally closed			1 N/C
For use with			DILM17, DILM25, DILM32, DILM38, DILMF18, DILMF11, DILMF14, DILMF17, DILMF25, DILMF32, DIULM17, DIULM25, DIULM32, SDAINLM30, SDAINLM30, SDAINLM55
Short-circuit protection			
Type "1" coordination	gG/gL	Α	25
Type "2" coordination	gG/gL	Α	20

Notes

Overload release: tripping class 10 A

 $short\text{-}circuit\ protective\ device: Observe\ the\ maximum\ permissible\ fuse\ of\ the\ contactor\ with\ direct\ device\ mounting.$

Suitable for protection of Ex e-motors.



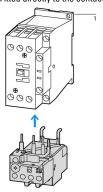
II(2)G [Ex d] [Ex e] [Ex px], II(2)D [Ex p] [Ex t]

PTB 10 ATEX 3010

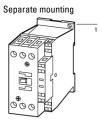
Observe manual MN03407005Z-DE/EN.

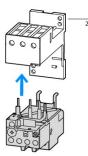
Notes

Fitted directly to the contactor









Technical data

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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			
			Operating range to IEC/EN 60947 PTB: -5 °C - +55 °C
Open	0	,C	-25 - +55
Enclosed	0	,C	- 25 - 40
Temperature compensation			Continuous
Weight	k	cg	0.144
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
Altitude	n	n	Max. 2000

Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Altitude		m	Max. 2000
Main conducting paths			
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	V	690
Rated operational voltage	U _e	V AC	690
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 $^{\circ}$ C			≦ 0.25 %/K
Current heat loss (3 conductors)			
Lower value of the setting range		W	2.3
Maximum setting		W	5.1
Terminal capacities		mm^2	
Solid		mm ²	1 x (1 - 6) 2 x (1 - 6)
Flexible with ferrule		mm ²	1 x (1 - 4) 2 x (1 - 4)
Solid or stranded		AWG	18 - 8
Terminal screw			M4
Tightening torque		Nm	1.8
Stripping length		mm	10

Tools			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	1 x 6
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	1 x (0.75 - 4) 2 x (0.75 - 4)
Flexible with ferrule		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)
Solid or stranded		AWG	2 x (18 - 14)
Terminal screw			M3.5
Tightening torque		Nm	1.2
Stripping length		mm	8
Tools			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	1×6
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}	Α	6
Rated operational current	l _e	Α	
AC-15			
Make contact			
120 V	l _e	Α	1.5
220 V 230 V 240 V	l _e	Α	1.5
380 V 400 V 415 V	I _e	Α	0.5
500 V	I _e	Α	0.5
Break contact			
120 V	I _e	Α	1.5
220 V 230 V 240 V	l _e	Α	1.5
380 V 400 V 415 V	I _e	Α	0.9
500 V	I _e	Α	0.8
DC L/R ≤ 15 ms			
			Switch-on and switch-off conditions based on DC-13, time constant as specified.
24 V	I _e	Α	0.9
60 V	I _e	Α	0.75
110 V	I _e	Α	0.4
220 V	I _e	A	0.2
Short-circuit rating without welding	·e	,,	<u></u>
max. fuse		A gG/gL	6
mun. Tube		A gu/gL	·

Notes

Notes Ambient air temperature: Operating range to IEC/EN 60947, PTB: -5°C to +55°C

Main circuits terminal capacity solid and flexible conductors with ferrules: When using 2 conductors use equal cross-sections.

Rating data for approved types

nating data for approved types			
Auxiliary contacts			
Pilot Duty			
AC operated			B300 at opposite polarity B600 at same polarity
DC operated			R300
Short Circuit Current Rating	:	SCCR	
600 V High Fault			
SCCR (fuse)	ŀ	kA	100
max. Fuse		A	10 Class J/CC

C/EN 61439

Technical data for design verification

Retact operational current for specified heart dissipation				
Equipment heat dissipation, current-dependent P _{Vs} W 0 Static heat dissipation, non-current-dependent P _{Vs} W 0 Operating ambient temperature min. Operating ambient temperature min. Operating ambient temperature min. Operating ambient temperature max. 10.2.5 trength of materials and parts 10.2.5 trength of materials and parts 10.2.2 Corrosion resistance 10.2.3 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Uting 10.2.5 Michanical impact 10.3.7 Degree of protection of ASSEMBLIES 10.4 Plearances and creepage distances 10.5 Protection against electric shock 10.5 Recomparison of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9 Power-frequency electric strength 10.9 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnatic compatibility 10.13 Mechanical function 10.11 Short-circuit rating 10.11 Mechanical function 10.12 Electromagnatic compatibility 10.13 Mechanical function 10.14 Testing of enclosures made of insulating material 10.15 Incorporation of switching control of the switchinger medits to be evaluated. 10.15 Incorporation of switching devices and components 10.16 Incorporation of switching devices and components 10.17 Internal electrical circuits and connections 10.18 Incorporation of switching devices and components 10.19 Incorporation of switching devices and components 10.19 Incorporation of switching devices and components 10.19 Incorporation of switching devices and components 10.10 Incorporation of switching devices and components 10.11 Short-circuit rating 10.12 Electromagnatic compatibility 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.16 Mechanical function 10.17 M	Rated operational current for specified heat dissipation	In	Α	6
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10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Is the panel builder's responsibility. The panel builder is responsibility. The specifications for the switchgear must be observed. The panel builder's responsibility. The specifications for the switchgear must be observed. The panel builder's responsibility. The specifications for the switchgear must be observed.	10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
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	10.12 Electromagnetic compatibility			
	10.13 Mechanical function			· · · · · · · · · · · · · · · · · · ·

Technical data ETIM 7.0

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

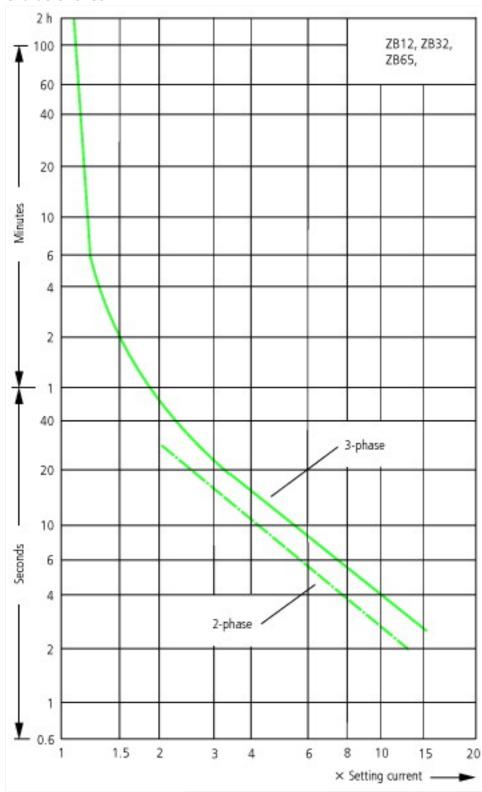
Low votage industrial components (Education), Thermal overload Telay (Education)				
Electric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Thermal overload relay (ecl@ss10.0.1-27-37-15-01 [AKF075014])				
Adjustable current range	А		4 - 6	
Max. rated operation voltage Ue	V	,	690	
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	
Reset function input			No	
Reset function automatic			Yes	
Reset function push-button			Yes	

Approvals

Product Standards	IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; 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: IP20, UL/CSA Type: -

Characteristics

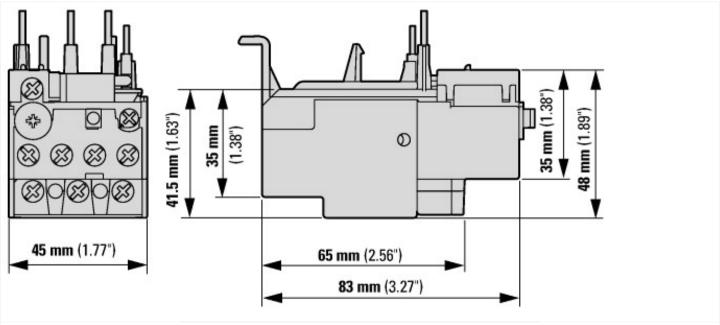


These tripping characteristics are mean values of the spreads at 20 °C ambient air temperature in a cold state. Tripping time depends on response current.

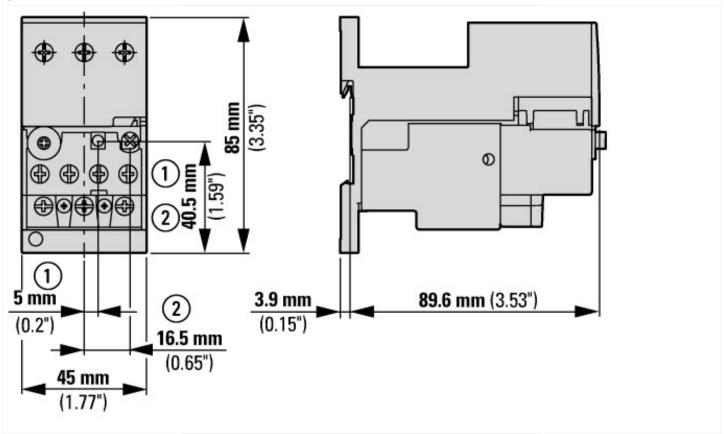
When the devices are at operational temperature the tripping time of the overload relay falls to approx. 25 % of the read off value. 1: Minimum level, 3-phase

- 2: Maximum level, 3-phase 3: Minimum marker, 2-phase 4: Highest marker, 2-phase

Dimensions



① OFF ② Reset/ON



With base ZB32-XEZ

