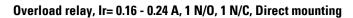
DATASHEET - ZE-0,24







Part no. ZE-0,24 Catalog No. 014285 Alternate Catalog XTOMP24AC1 No.

4130475

EL-Nummer

(Norway)

Delivery program

Product range			ZE overload relays for mini contactor relays
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
Setting range			
Overload releases	l _r	A	0.16 - 0.24
Contact sequence			97 95 $ \begin{array}{c} 97 95 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 4 \\ 6 \\ 98 \\ 96 \end{array}$
Auxiliary contacts			
N/O = Normally open			1 N/0
N/C = Normally closed			1 N/C
For use with			DILEM DIULEM/21/MV
Short-circuit protection			
Type "1" coordination	gG/gL	A	20
Type "2" coordination	gG/gL	A	1
Notes			

Notes

Overload trigger: 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



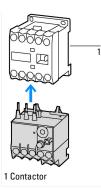
II(2)G [Ex d] [Ex e] [Ex px]

PTB 10 ATEX 3014

Observe manual MN03407003Z-DE/EN.

Notes

When fitted directly to the contactor a clearance of at least 5 mm is required between the overload relays.



Technical data General

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			
			Operating range to IEC/EN 60947 PTB: -5 °C - +55 °C
Open		°C	-25 - +50
Enclosed		°C	- 25 - 40
Temperature compensation			Continuous
Weight		kg	0.075
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		m	Max. 2000
Main conducting paths			
Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree			111/3
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	300
Between main circuits		V AC	300
Temperatur compensation residual error > 40 °C			≦ 0.25 %/K
Current heat loss (3 conductors)			
Lower value of the setting range		W	2.5
Maximum setting		W	4.5
Terminal capacities		mm ²	
Solid		mm ²	1 x (0.75 - 2.5)
Flexible with ferrule		mm ²	1 x (0.5 - 1.5)
Solid or stranded		AWG	18 - 14
Terminal screw			M3.5
Tightening torque		Nm	1.2
Stripping length		mm	8
Tools			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 × 5.5
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	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)
Flexible with ferrule		mm ²	1 x (0.5 - 1.5)

			2 x (0.5 - 1.5)
Solid or stranded		AWG	2 x (18 - 12)
Terminal screw			M3.5
Tightening torque		Nm	1.2
Stripping length		mm	8
Tools			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 × 5.5
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	250
Conventional thermal current	I _{th}	А	6
Rated operational current	Ι _e	А	
AC-15			
Make contact			
120 V	Ι _e	А	1.5
220 V 230 V 240 V	Ι _e	А	1.5
380 V 400 V 415 V	Ι _e	А	0.7
500 V	I _e	А	0.5
Break contact			
120 V	Ι _e	A	1.5
220 V 230 V 240 V	I _e	A	1.5
380 V 400 V 415 V	Ι _e	A	0.7
500 V	I _e	A	0.5
DC L/R ≦ 15 ms			
			Switch-on and switch-off conditions based on DC-13, time constant as specified.
24 V	۱ _e	A	0.9
60 V	I _e	A	0.75
110 V	l _e	A	0.4
220 V	l _e	A	0.2
Short-circuit rating without welding			
max. fuse		A gG/gL	4
Notes		5-,5-	

Notes Ambient air temperature: Operating range to IEC/EN 60947, PTB: -5°C to +50°C Main circuits terminal capacity solid and flexible conductors with ferrules: When using 2 conductors use equal cross-sections.

Rating data for approved types Auxiliary contacts Pilot Duty D300 AC operated DC operated R300 General Use

General Use		
AC	v	240 V/1,5 A 600 V/0,6 A
Short Circuit Current Rating	SCCR	
Basic Rating		
Notes		CB for max. 480 V
SCCR	kA	5
max. Fuse	А	1
max. CB	А	15

Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	0.24
Heat dissipation per pole, current-dependent	P _{vid}	W	1.5

Static heat dissipation, non-current-dependent Pres W 0 Heat dissipation capacity Pdess W 0 Operating ambient temperature min. *C -25 Operating ambient temperature max. *C 50 IEC/EN 61439 design verification *C 50 10.2 Strength of materials and parts *C 50 10.2.2 Corrosion resistance Meets the product standard's requirements. 10.2.2.3 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.2.3.1 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Meets the product standard's requirements. 10.2.2.4 Resistance to ultra-violet (UV) radistion Meets the product standard's requirements. 10.2.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 10.2.4 Resistance to ultra-violet (UV) radistion Meets the product standard's requirements. 10.2.5 Mechanical impect Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.3.8 Degree of protection of ASSEMBLIES Does not apply, since the entire switchgear needs to be evaluated.		
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provide near dissipation data for the devices.	calculat	ion. Eaton will
10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear observed.	or the sw	itchgear must be
10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear observed.	or the sw	itchgear must be
10.13 Mechanical function The device meets the requirements, provided the information in the instru leaflet (IL) is observed.	ation in th	he instruction

Technical data ETIM 7.0

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@ss10.0.1-27-37-15-01 [AKF075014])				
Adjustable current range	А	0.16 - 0.24		
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

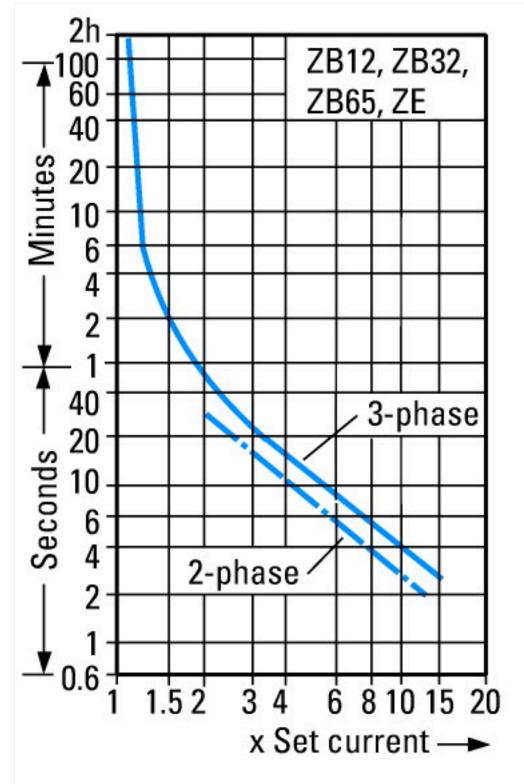
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Product Standards	UL 508; CSA-C22.2 No. 14; IEC/EN 60947-4-1; IEC/EN 60947-5-1; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	12528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified

Specially designed for North America	
Suitable for	
Max. Voltage Rating	
Degree of Protection	

Characteristics

Branch circuits 600 V AC

IEC: IP20, UL/CSA Type: -



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.

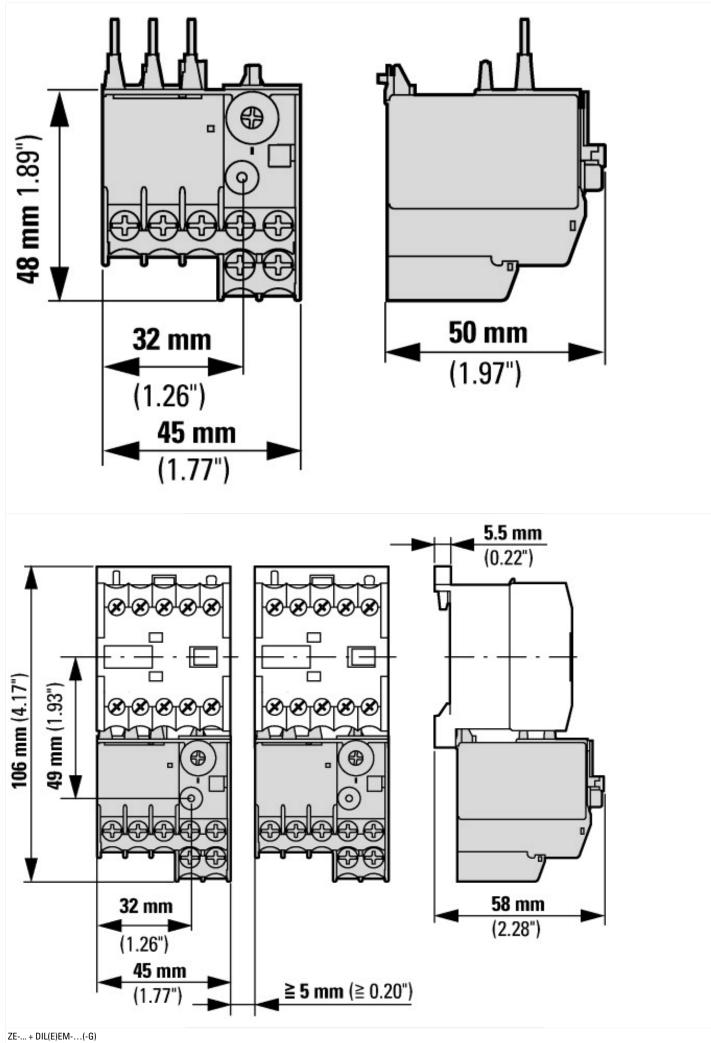
When the devices are at operational temperature the tripping time of the overload relay falls to approx. 25 % of the read off value.

1: Minimum level, 3-phase

2: Maximum level, 3-phase

3: Minimum marker, 2-phase

4: Highest marker, 2-phase



09/14/2021