DATASHEET - ZEB32-5



Overload relay, Direct mounting, Earth-fault protection: none, Ir= 1 - 5 A, 1 P



Part no.	ZEB32-5
Catalog No.	136487
Alternate Catalog	XTOE005CCS
No.	
EL-Nummer	0004137356
(Norway)	

Delivery program

Product range			Electronic overload relays ZEB
Phase-failure sensitivity			IEC/EN 60947, VDE 0660 Part 102
Description			Test/off button Reset pushbutton Manual/auto reset selectable Protection with heavy starting duty (Class 10A-30)
Mounting type			Direct mounting
Earth-fault protection			
Earth-fault protection			none
Setting range			
Overload releases	l _r	A	1 - 5
Contact sequence			97 95 4 4 4 4 4 4 4 4 4 4
Auxiliary contacts			
N/O = Normally open			1 N/O
N/C = Normally closed			1 N/C
For use with			DILM17 DILM25 DILM32 DILM38 DIULM17 DIULM25 DIULM32 SDAINLM30 SDAINLM45 SDAINLM55

Technical data

		IEC/EN 60947, VDE 0660, UL, CSA
		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
	°C	-25 - +65
	°C	65
	°C	
	°C	65
	g	15 Shock duration 10 ms according to IEC 60068-2-27
		IP20
		Finger and back-of-hand proof
U _{imp}	V AC	6000
		III/3
	Uimp	°C °C °C g

Rated insulation voltage	Ui	V AC	690
Rated operational voltage	U _e	V AC	690
Rated frequency	f	Hz	50/60
Safe isolation to EN 61140			
Between auxiliary contacts and main contacts		V AC	600
Between main circuits		V AC	600
Terminal capacities		mm ²	
Solid		mm ²	1 x 1.5 - 16
Solid or stranded		AWG	1 x 14 - 4
Stripping length		mm	13
Auxiliary and control circuits			
Rated impulse withstand voltage	U _{imp}	V	6000
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 - 12)
Terminal screw		Nm	M3.5
Tightening torque		Nm	0.8 - 1.2
Tightening torque		lb-in	7 8
Stripping length		mm	ð
Tools Pozidriv screwdriver		Size	2
Standard screwdriver			2 1 x 6
Rated insulation voltage		mm V AC	500
	Ui		
Rated operational voltage	Ue	V AC	500
Safe isolation to EN 61140			
between the auxiliary contacts Conventional thermal current		V AC	240
	l _{th}	A	5
Rated operational current	l _e	A	
AC-15			
Make contact			
120 V	le	A	1.5
220 V 230 V 240 V	le	A	1.5
380 V 400 V 415 V	l _e	А	0.5
500 V	l _e	А	0.5
Break contact			
120 V	l _e	А	1.5
220 V 230 V 240 V	l _e	А	1.5
380 V 400 V 415 V	le	А	0.9
500 V	l _e	А	0.8
DC L/R ≦ 15 ms			
			Switch-on and switch-off conditions based on DC-13, time constant as specified.
24 V	le	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	Ŭ		
max. fuse		A gG/gL	6
Rating data for approved types			
Auxiliary contacts			
Pilot Duty			
AC operated			B600

DC operated		R300
Short Circuit Current Rating	SCCR	
600 V High Fault		
SCCR (fuse)	kA	100
max. Fuse	А	20 Class J

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	5
Heat dissipation per pole, current-dependent	P _{vid}	W	0.17
Equipment heat dissipation, current-dependent	P _{vid}	W	0.5
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	65
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 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			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Electronic overload relay (EC001080)

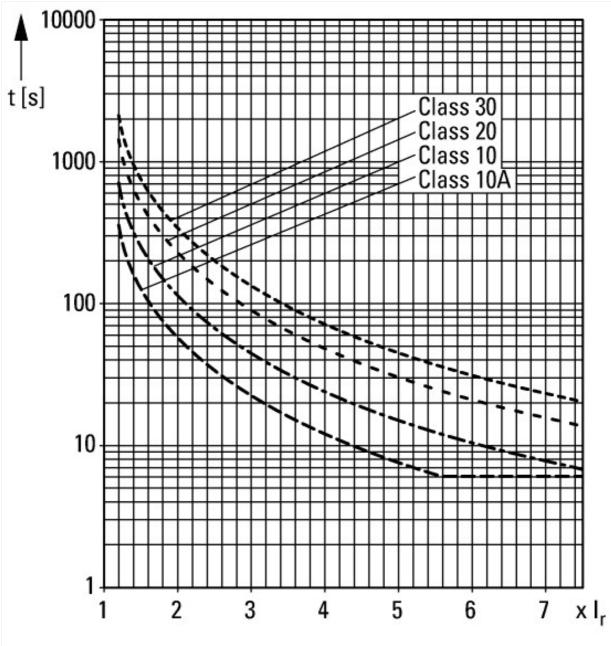
Electric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Electronic overload relay (ecl@ss10.0.1-27-37-15-02 [AKF076014])		
Adjustable current range	А	1 - 5
Mounting method		Direct attachment
Type of electrical connection of main circuit		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
Rated control supply voltage Us at AC 50HZ	V	0 - 0
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us at DC	V	0 - 0

Release class	Adjustable
Voltage type for actuating	Self powered
Reset function automatic	Yes
Reset function input	No
Reset function push-button	Yes

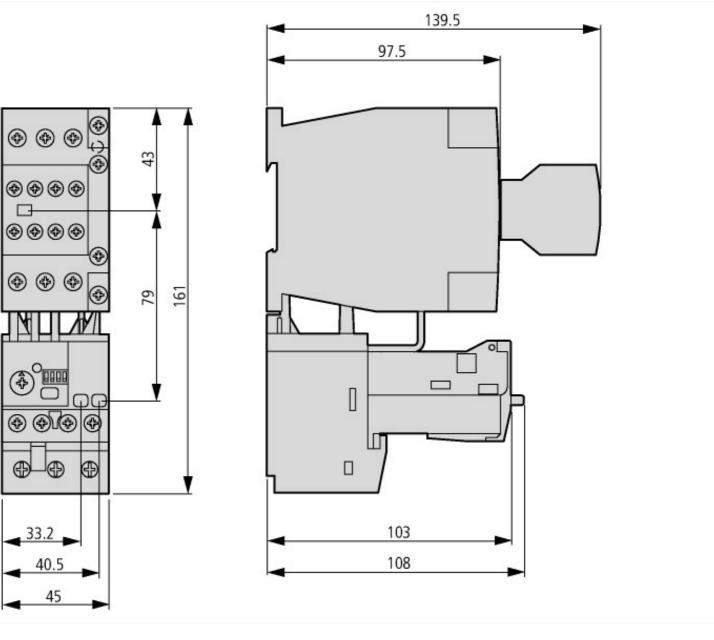
Approvals

A-C22.2 No. 14; IEC/EN 60947-4-1; CE marking
SA certified
cuits
JL/CSA Type: -

Characteristics







Assets (links)

Instruction Leaflets IL04210002E2018_08

Additional product information (links)

IL04210002E Solid-state motor protection relay

IL04210002E Solid-state motor protection relay ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04210002E2018_08.pdf