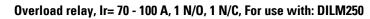
DATASHEET - Z5-100/FF250







Part no.Z5-100/FF250Catalog No.210071Alternate CatalogXTOB100LC1No.EL-Nummer4134168

(Norway)

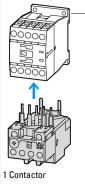
Delivery program

Product range			Overload relay Z5		
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 Separate mounting		
Setting range					
Overload releases	I _r	А	70 - 100		
Contact sequence			$\begin{array}{c} 1 & 3 & 5 & 97 & 95 \\ \hline \\ 2 & 4 & 6 & 98 & 96 \end{array}$		
Auxiliary contacts					
N/O = Normally open			1 N/O		
N/C = Normally closed			1 N/C		
For use with			DILM250		
Short-circuit protection					
Type "1" coordination	gG/gL	A	315		
Type "2" coordination	gG/gL	A	200		
Notes					
Overload release: tripping class 10 A					
Short-circuit protection: Observe the maximum permissible fuse of the contactor	with direct devic	ce mountin	g.		
Netro					

Notes

Fitted directly to the contactor

1



Technical data	
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 - +60
Enclosed		°C	- 25 - 40
Temperature compensation			Continuous
Weight		kg	1.55
Mechanical shock resistance		g	10 Sinusoidal Shock duration 10 ms
Degree of Protection			IP00
Protection against direct contact when actuated from front (EN 50274)			With terminal cover
Altitude		m	Max. 2000
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	Ue	V AC	1000
Safe isolation to EN 61140			
Between auxiliary contacts and main contacts		V AC	500
Between main circuits		V AC	500
Temperature compensation residual error > $40^{\circ}C$			≦ 0.25 %/K
Current heat loss (3 conductors)			
Lower value of the setting range		W	10
Maximum setting		W	21
Terminal capacities		mm ²	
Flexible with cable lug		mm ²	185
Stranded with cable lug		mm ²	185
			2/0 - 500 MCM
Solid or stranded Busbar	Width	AWG	
	vviatn	mm	25 M10 x 25
Terminal screw		Ner	M10 x 35
Tightening torque		Nm	18
Tools Hexagon head spanner	SW		10
Auxiliary and control circuits	300	mm	16
Rated impulse withstand voltage	U _{imp}	V	4000
Overvoltage category/pollution degree			111/3
Terminal capacities		mm ²	
			1(0.75 4)
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	l _{th}	A	6
Rated operational current	le	A	
AC-15			
Make contact			
120 V	l _e	A	1.5

220 V 230 V 240 V	le	А	1.5
380 V 400 V 415 V	le	А	0.5
500 V	le	A	0.5
Break contact			
120 V	le	А	1.5
220 V 230 V 240 V	le	А	1.5
380 V 400 V 415 V	le	A	0.9
500 V	le	A	0.8
DC L/R ≦ 15 ms			
			Switch-on and switch-off conditions based on DC-13, time constant as specified.
24 V	le	А	0.9
60 V	le	А	0.75
110 V	le	A	0.4
220 V	le	Α	0.2
Short-circuit rating without welding			
max. fuse		A gG/gL	6
Notes			

Notes

Notes Ambient air temperature: Operating range to IEC/EN 60947

Rating data for approved types

natiliy uata ior approved types		
Auxiliary contacts		
Pilot Duty		
AC operated		B300 at opposite polarity B600 at same polarity
DC operated		R300
Short Circuit Current Rating	SC	CR
Basic Rating		
SCCR	kA	10
max. Fuse	А	400 Class J
max. CB	А	400

Design verification as per IEC/EN 61439

Rated operational current for specified heat dissipation In A 100 Heat dissipation per pole, current-dependent Pvid V 7.9 Equipment heat dissipation, current-dependent Pvid V 2.37 Static heat dissipation non-current-dependent Pvs V 0 Heat dissipation capacity Pdiss V 0 Operating ambient temperature min. °C 25 Operating ambient temperature max. of °C 60				
Heat dissipation per pole, current-dependent Pvide Wei 7.4 Equipment heat dissipation, current-dependent Pvide Wei 3.37 Static heat dissipation, on-current-dependent Pvide Wei 0 Querating ambient temperature main. Pvides Wei 0 Operating ambient temperature max. °C 36 EUC/NG 1439 design verification °C 30 10.2.2 Corrosion resistance °C 40 10.2.3.1 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Mei Meets the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 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. 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 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. 10.2.3.1 Verification of ASSE	Technical data for design verification			
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10.6 Incorporation of switching devices and components 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.
10.7 Internal electrical circuits and connections	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

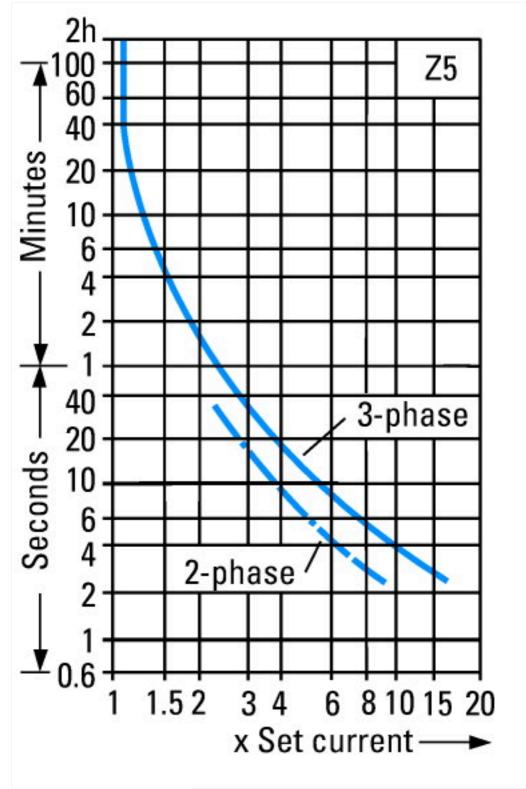
L	ow-voltage industrial components (EG000017) / Thermal overload relay (EC000106)

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	70 - 100
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
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: IP00, UL/CSA Type: -

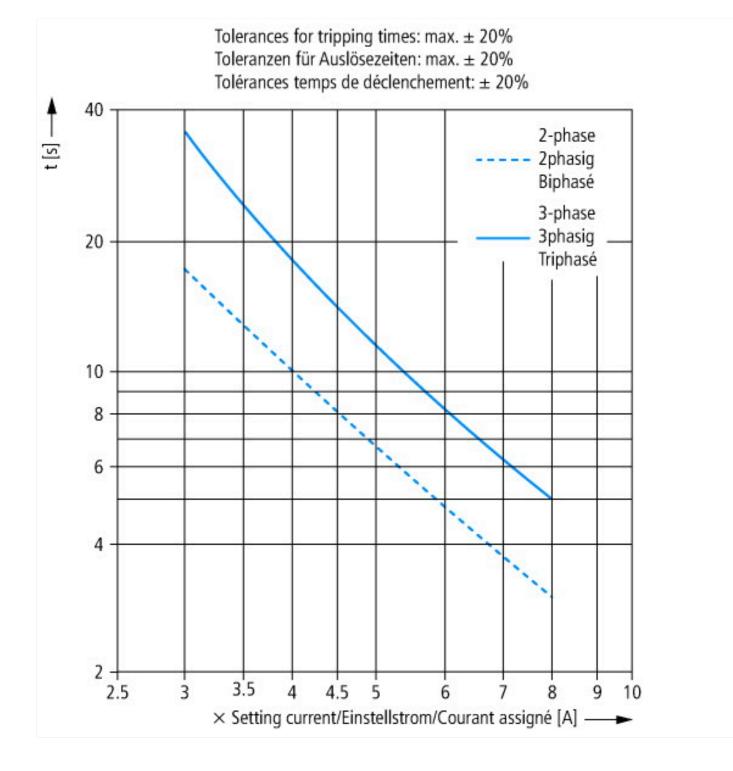




These tripping characteristics are mean values of the spreads at 20 °C ambient air temperature in a cold state.

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.



Dimensions

