DATASHEET - ZB150-70/KK



Overload relay, ZB150, Ir= 50 - 70 A, 1 N/O, 1 N/C, Separate mounting, IP00



Powering Business Worldwide

Part no. ZB150-70/KK 278469 Catalog No. Alternate Catalog XTOB070GC1S

No.

Delivery program			
Product range			Overload relay ZB up to 150 A
Productrange			Accessories
Accessories			Overload relays
Frame size			ZB150
Phase-failure sensitivity			IEC/EN 60947, VDE 0660 Part 102
Description			Test/off button Reset pushbutton manual/auto Trip-free release
Mounting type			Separate mounting
中	l _r	Α	50 - 70
Contact sequence			97 95
Auxiliary contacts			
N/O = Normally open			1 N/O
N/C = Normally closed			1 N/C
For use with			DILM80 DILM95 DILM115 DILM150 DILM170 DILM170 DILMF80 DILMF95 DILMF15 DILMF15 DILMF15 DIUM80 DIULM80 DIULM95 DIULM95 DIULM15 DIULM165 SDAINLM140 SDAINLM165 SDAINLM200 SDAINLM260
Short-circuit protection			
Type "1" coordination	gG/gL	A	250
Type "2" coordination	gG/gL	А	160

Notes

Overload trigger: tripping class 10 A

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

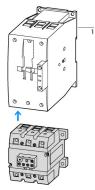
Suitable for protection of Ex e-motors.



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

Observe manual MN03407005Z-DE/EN.

Notes Separate mounting



1 Contactor 2 Bases

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 - +55
Enclosed		°C	- 25 - 40
Temperature compensation			Continuous
Weight		kg	1.447
Mechanical shock resistance		g	10 Sinusoidal Shock duration 10 ms
Degree of Protection			IP00
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	8000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	V	1000
Rated operational voltage	U _e	V AC	1000
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 °C			≦ 0.25 %/K
Current heat loss (3 conductors)			
Lower value of the setting range		W	11
Maximum setting		W	21.6
Terminal capacities		mm ²	
Solid		mm ²	1 x (4 - 16) 2 x (4 - 16)
Flexible with ferrule		mm ²	1 x (4 - 70) 2 x (4 - 70)
Stranded		mm^2	1 x (16 - 70) 2 x (16 - 70)
Solid or stranded		AWG	3/0
Terminal screw			M10
Tightening torque		Nm	10
Stripping length		mm	24
Tools			

Hexagon socket-head spanner	SW	mm	5
Auxiliary and control circuits	SVV	111111	•
Rated impulse withstand voltage	U _{imp}	V	4000
Overvoltage category/pollution degree	·····p		III/3
Terminal capacities		mm ²	
			4 (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 x 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	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	0.5
500 V	I _e	Α	0.5
Break contact			
120 V	I _e	A	1.5
220 V 230 V 240 V	I _e	A	1.5
380 V 400 V 415 V	I _e	A	0.9
500 V	I _e	A	0.8
DC L/R ≦ 15 ms	.6		
25 4.1 - 10 110			Switch-on and switch-off conditions based on DC-13, time constant as specified.
24 V	I _e	A	0.9
60 V	I _e	A	0.75
110 V		A	0.4
220 V	I _e		
	I _e	A	0.2
Short-circuit rating without welding		A aC/al	6
max. fuse		A gG/gL	U

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

maning water for approximately pro-		
Auxiliary contacts		
Pilot Duty		
AC operated		B300 at opposite polarity B600 at same polarity
DC operated		R300
Short Circuit Current Rating	SCCR	
Basic Rating		
SCCR	kA	10
max. Fuse	Α	125 Class J

Design verification as per II	EC/EN 61439
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Technical data for design verification Rated operational current for specified heat dissipation Hat dissipation per pole, current-dependent Pyvd W 7.2 Equipment heat dissipation, current-dependent Pyvd W 21.6 Static heat dissipation, non-current-dependent Pyvs W 0 Heat dissipation capacity Pdits W 0 Operating ambient temperature min. Operating ambient temperature max. IEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2 Strength of a SEEMBLIES 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation so witching devices and components 10.7 Internal electric circuits and connections 10.8 Connections for external conductors
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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. Eato provide heat dissipation data for the devices.
10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear observed.
10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear 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) / Thermal overload relay (EC000106)

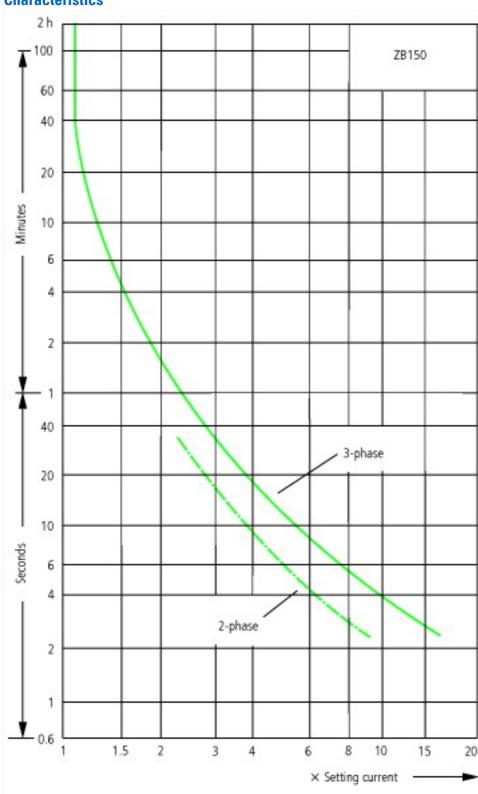
Electric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Thermal overload relay (ecl@ss10.0.1-27-37-15-01 [AKF075014])		
Adjustable current range	Α	50 - 70
Max. rated operation voltage Ue	V	1000
Mounting method		Direct attachment
Type 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: -

Characteristics



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

On devices at operating temperature the tripping time of the overload relay drops to approx. 25 % of the read value. Specific characteristics for each individual setting range can be found in the manual.

Dimensions

