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TRIP

CLOSE



O TRIP RESE

- Encapsulated coil and tripping mechanism
- Low coil consumption
- Up to 48 simultaneously operate contact
- AC and DC rated contacts available
- Free configurable Normally Close / Normally Open contact
- Manual trip test button
- Mechanical flag indicator

IEC60255 IEC60947-1

572

XQI

Trip

(SFF)

-6909

LOCKOUT RELAY

TRIP RESET

16924955000. C!! 0"

LOCKOUT RELA

RESET

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301 - 1 7M2 1 301.02

PRINCIPLE OF OPERATION :

The Lockout Relay has two positions "TRIP - RESET". Under normal condition, the handle could be turned to "RESET" position and would remain mechanically latched. This also drive a Lockout Relay contact LR connected in series with the Lockout Relay coil in the trip unit to close when handle reached 'RESET" position. Relay now on Normal State, Switch Contact NC close and NO contact open. Fault sensing contacts FC, single or multiple, N.O, connected in series to the lockout Relay LR coil will close when there is a fault occurs.

When fault occur, FC contact respond and closed. Along with the closed LR contact. The Lockout Relay coil LR will be energize and release the mechanical latch. The handle then spring return to 'TRIP" position and LR contact open. Switch contact NC now open and NO contact now closed. So long as any FC contacts remains closed, the handle would not be able to switch and latched on at "RESET" position but always spring return to "TRIP". In this design the coil need only be rated for short time duty and independent of frequency.

Two version of Lockout Relay. Type "L" only Trip electrically and Type "M" fitted with a push button to allow manual tripping beside electrical tripping. Flag indicator, Green on "Reset" and Red on "Trip" is provided as an option.

SWITCH CONTACT RATING :

rage temperature:

Tvpe

Acco	rding to IEC 60947	-3, EN 60947-3	, VDE 0660 part 107		CA	10L/M	CA2	OL/M	
Rated 1	Thermal Current lu/lth/lth	пе							
			20	25					
Rated I	nsulation Voltage Ui 1		200	800					
Batad	muleo Withstand Valta		090	090					
Ratea	mpulse withstand voltag	kV		ß	6				
Rated 0	Operational Current le								
AC-21A	Switching of resistive loads, moderate overloads	including		A	:	20	25		
AC-15	Switching of control devices contactors, valves etc.	•	110 V-240 V 380 V-440 V	A	5	5.0 4.0	8.0 5.0		
Rated C)perational Current I e (D	C)	NO OF CONTACT IN SERIES		1	2	1	2	
DC-21A	Switching of resistive loads, moderate overloads	including	24V 120 V 220 V	A	16 6.0 0.9	16 13 6.0	21 6.0 1.0	21 17 6.0	
DC-22A	Switching of combined resist inductive loads including mo	stive or low derate overloads	24V 120 V 220 V	A	14 1.9 0.3	14 12 1.9	18 2.0 0.3	18 16 2.0	
DC-23A	Frequent switching of motor other high inductive loads	s or	24V 120 V 220 V	A	13 1.5 0.2	13 10 1.5	16 1.7 0.2	16 14 1.7	
DC-13	Switching of control devices Electromagnet	i.	24V 120 V 220 V	A	3.0 0.7 0.15	6.0 1.4 0.7	4 1.0 0.35	4 1.8 1.0	
Short C	ircuit Protection								
Max. fuse	size	gL/gG-characteristic	c	A		25	35		
Rated sho	ort-time withstand current	(1 s-current)		A	1	40	280		
Max. Pe	rmissible Wire Gage • co	pper wires only			2 x	5		0	
	Single-core or stranded wire	? / flexible		mm [*]	2		4	.0	
Ambien	t Temperature of Stages	55 °C d 35 °C d	55 °C during 24 hours with peaks up to 60 °C 35 °C during 24 hours with peaks up to 40 °C						

No Fault Condition



No Fault Condition



Fault Condition





TRIPPING COIL:

The lockout relay coil is fully encapsulated to protection against mechanical damage. The LR contact is fitted in the trip Unit to eliminate the need to utilize switch contact to cut out coil when trip, thus keep switch length to the minimum and maximize the switch contact fitted. To obtain maximum tripping speed, the Lockout Relay coil is rated for intermittent duty only. Maximum continuous current allowed for the coils is 100mA,

Impedance of the Tripping coil as follow :

valid for lines															Vo	Voltage (V) 24-28					24-28V	42-	50V	110V/125V	220/240V							
HOW T	HOW TO ORDER													Re	Resistance (ohm) 2.72 Ω					2.72 Ω	7.5	3Ω	43.2 Ω	171.5Ω								
												TINIC								Po	Power Consumption (VA) 135					135VA	155VA		185VA	220VA		
SWITCH		NO.					VOLTAGE									1			1			6		-	1	-						
6446		CON	724			,		00		-		0 0									h b		_	4		-						
CA10	L	A	/21			1	024			E	SI	51		TRP RESET TRP RESET TRP						RESET	11	TRP	RESET	1.			For coil supervision, caution					
MCIL	M	A SGXXXX						048						0 0						C	, ⁸ 🥌							Temperature raise limit <15K.				
Manual							110						1								3	3 4						Shunt resistor >1.2KΩ				
Release												Continue coil current <100mA																				
	11							22	U															_			1	TOTAL		LENCTUL (mm)		
L L	9	11	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43 45	45	47		TOTA	-	CALOU /M	L (mm)								
TRP (REGET C		V	-	V	· ·	×	12.4	N	14	V		V	**	N	-	V		V	**	V		V	74	V			NO+N	ic i	CATOL/M	CAZOL/M	
Δ. Υ		RIP	X	_	Х		Х		Х	2-3	X		X	-	X	_	X		X	_	X		X		X		0	4	+	/1.3	/8./	
- 4-4	-	RESET		X		γ		X		X		X		Χ		X		Х		Χ		Χ		Χ		x٢	10 L	6	+	80.3	90.9	
	Ľ					N		<u></u>						~				/		-				~				8	+	90.3	104.1	
2 4 6 8							10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48 U	1 02	10	+	99.3	116.3	
				A7	21 ·		Α	723	3 -		SG	SNO	06		SC	GNC	008-		S	GNC)10-		S	GN0	12-			12	_	109.3	129.5	
						I				•													•					14	+	118.3	141.7	
MOUN	FING										7	1	_		JN													16	\perp	127.9	154.5	
1 -	¤48		/	1.		48	-				-			~						1	1		1					18	_	137.3	167.1	
and											20		147.3	180.3																		
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40mm

-40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible)

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