

Contactors

THERMAL OVERLOAD RELAY

BR6



- A three-pole relay for use with K07C, K07CG, K07M, K07MG mini contactors
- Used for overload protection of motors with operational currents up to 14 A and operational voltages up to 690 V AC
- Electrically isolated auxiliary contacts
- A RESET button provided with elements enabling selection between a manual and automatic mechanism and contacts reset to initial position
- A double trip lever enables sensitivity to phase failure in accordance with IEC/EN 60947-4-1
- Degree of protection IP20
- A scale for setting the motor operational current

Setting ranges and maximum permitted back-up fuses

Setting range (A)	Max. back-up fuse gL/gG For coordination "1": (A)	Max. back-up fuse gL/gG For coordination "2": (A)
0.11 - 0.16	20	0.5
0.16 - 0.25	20	1
0.25 - 0.4	20	2
0.4 - 0.6	20	2
0.6 - 0.9	20	4
0.9 - 1.3	20	4
1.3 - 1.9	20	6
1.9 - 2.8	20	6
2.8 - 4	20	10
4 - 6	20	10
6 - 9	20	16
8 - 11	25	20
11 - 14	35	25

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TECHNICAL DATA

GENERAL	Type			BR6		
	Standards			IEC/EN 60947-4-1, IEC/EN 60947-5-1, UL 508		
	Ambient temperature	open	°C	-25 ...+50		
		closed	°C	-25 ... +40		
	Storage temperature		°C	-25 ... +70		
	Terminal capacity	solid or stranded	mm²	1 x 0.75 ... 2 x 2.5		
		flexible		1 x 0.75 ... 2 x 2.5		
		flexible with end sleeve		1 x 0.5 ... 2 x 1.5		
	Screw			M 3.5		
	Screw head			PZ 2		
Tightening torque		Nm	1.0			
Weight		kg	0.08			
MAIN CIRCUIT	Rated insulation voltage	U_i	V	690		
	Rated impulse withstand voltage	U_{imp}	kV	6		
	Rated operational voltage	U_e	V	690		
	Rated frequency		Hz	0 ... 400		
	Adjustable current		A	0.11 - 14 (13 ranges)		
	Overvoltage category / pollution category			III / 3		
	Trip class acc. to IEC/EN 60947-4-1			10		
	Power loss			approx. 2W / pole		
AUXILIARY CIRCUIT	Rated insulation voltage	U_i	V	690		
	Rated impulse withstand voltage	U_{imp}	kV	6		
	Rated operational voltage	U_e	V	500 V AC, 220 V DC		
	Overvoltage category / pollution degree			III / 3		
	Thermal current	I_{th}	A	6		
	Rated operational currents	220/240 V	I_e	A	0.5	
	AC-15	make contact			380/415 V	0.5
					500 V	0.3
		break contact	220/240 V	1.5		
			380/415 V	0.7		
			500 V	0.5		
	Rated operation currents	24 V	I_e	A	0.9	
	DC-13	both contacts			60 V	0.75
					110 V	0.4
		220 V			0.2	

DIMENSIONS

