

Contactors

BR63 thermal overload relay



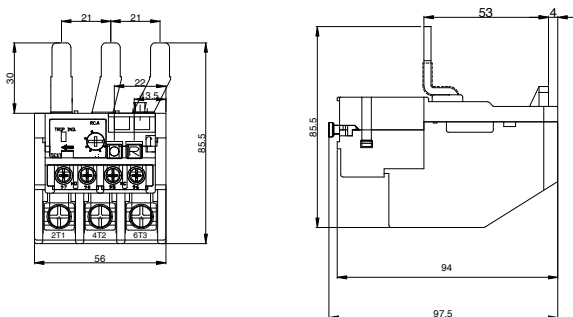
- A three-pole thermal overload relay for use with KNL43/63 contactors
- Used for overload protection of motors with operational currents up to 97 A and operational voltages up to 690 V AC
- Adjustable current setting
- Ambient temperature compensated
- Electrically isolated auxiliary contacts (1×NO, 1×NC)
- A RESET button provides both manual and automatic reset options
- A double trip lever provides sensitivity to phase loss in accordance with IEC/EN 60947-4-1.
- Degree of protection IP20

Setting ranges and maximum permitted back-up fuses

Type	Setting range (A)	Max. back-up fuse gL/gG (A)
BR63	17 - 25	100
	24.5 - 36	100
	35 - 47	125
	45 - 60	150
	58 - 75	200
	72 - 90	250
	77 - 97	250

DIMENSIONS

BR63



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TECHNICAL DATA				CONTACTOR RELAYS
GENERAL	Type			BR63
	Standards			IEC / EN 60947-4-1, IEC / EN 60947-5-1, UL 508
	Approvals			UL
	For use with			KNL43/63
	Ambient temperature	open closed	°C	-5 ... +55 -5 ... +55
	Terminal capacity		mm ²	6...35 (main), 0.75...2.5 (auxiliary)
	Screw	main terminals auxiliary terminals		M 5 M 3.5
	Screw head	main terminals auxiliary terminals		PZ2
	Tightening torque	main terminals auxiliary terminals	Nm	2.5 0.8
	Dimensions (W×H×D)		mm	56x85.5x97.5
	Weight		kg	0.350
MAIN CIRCUIT	Rated insulation voltage	U_i	V	690
	Rated impulse withstand voltage	U_{imp}	kV	6
	Rated operational voltage	U_e	V	690
	Adjustable current	I_r	A	17...97
	Rated frequency	f	Hz	50 / 60
	Overvoltage category and pollution degree acc. to IEC/EN 60947-1			III / 3
	Trip class acc. to IEC/EN 60947-4-1			10
	Power loss at I_n	P	W	11...15.5 (depending on setting range)
AUXILIARY CIRCUITS	Rated insulation voltage	U_i	V	690
	Rated impulse withstand voltage	U_{imp}	kV	6
	Rated operational voltage	U_e	V	up to 600 (AC) up to 250 (DC)
	Overvoltage category and pollution degree acc. to IEC/EN 60947-1			III / 3
	Thermal current (both contacts)	I_{th}	A	10
	Rated operational currents (both contacts)			
	AC-15	120 V 240 V 380 V 480 V 500 V 600 V	I_e	A 6 3 1.9 1.5 1.4 1.2
	Rated operational currents (both contacts)			
	DC-13	125 V 250 V	I_e	A 0.55 0.27

CONNECTION DIAGRAM

