

# Contactors

## BR63 thermal overload relay



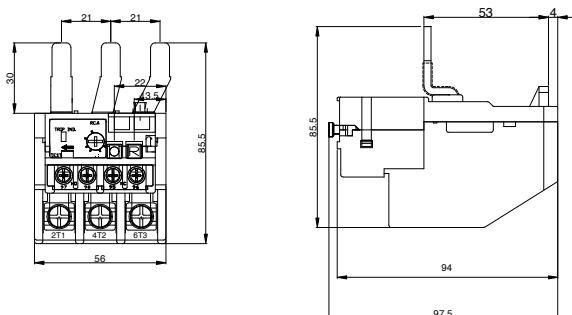
- A three-pole thermal overload relay for use with KNL43/63 contactors
- Used for overload protection of motors with operational currents up to 97 A and operational voltages up to 690 V AC
- Adjustable current setting
- Ambient temperature compensated
- Electrically isolated auxiliary contacts (1×NO, 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	°C	-5 ... +55	
		closed		-5 ... +55	
	Terminal capacity		mm <sup>2</sup>	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

