

Contactors

KNL CONTACTORS

KNL43, KNL63



- KNL43/63 contactors are mainly used for switching electric motors
- Possibility of direct connection of the BR63 bimetal relay for protection against overload and in case of phase failure
- Quick assembly to a 35 mm wide mounting rail in accordance with EN 60715
- Possibility of mounting the NDL4 snap-on auxiliary switch block with four auxiliary contacts
- Uniform marking of connection terminals in accordance with EN 50005 and EN 50011
- Use of the MBL43 mechanical interlock
- Degree of protection IP20

TECHNICAL DATA				MOTOR CONTACTORS		
				KNL43	KNL63	
GENERAL	Type					
	Standards			IEC/EN 60947-4-1, IEC/EN 60947-5-1, IEC/EN 60947-1, UL 508		
	Approvals			UL, CSA, GOST		
	Ambient temperature	open	°C	-20 ... +60		
		closed	°C	-20 ... +45		
	Storage temperature			°C		
				-30 ... +80		
	Power dissipation per pole			5	6	
	Mechanical endurance			op. c.		
				3 x 10 ⁶		
Max. mechanical operating frequency with no load			c./h			
			3000			
Max. electrical operating frequency AC-3/AC-4/AC-15/DC-13			c./h			
			600/300/1200/1200			
Weight			kg			
			0,93			
MAIN CIRCUIT	Rated insulation voltage	U_i	V	690		
	Thermal current	I_{th}	A	75	85	
	Rated frequency	f	Hz	50/60		
	Rated motor power	three-phase	230 V	P_e	kW	
			400 V			
			690 V			
	AC-3			12,5	15	
				22	30	
				30	40	
	Rated operational current	three-phase	230 V	I_e	A	
			400 V			
			690 V			
	AC-3			45	63	
				45	63	
				33	45	
Rated operational current	three-phase	400 V	P_e	kW		
	AC-4	690 V				
			15	22		
			18,5	25		
Electrical endurance AC-3 / AC-4			op. c.			
			diagram 1 / diagram 2			
Max. back-up fuse for short-circuit protection gL Coordination type 2		I_v	A	80	125	
Terminal capacity	rigid	S	mm ²	35		
	flexible			25		
Screw			M6			
Screw head			PZ2			
Tightening torque			Nm	4		
AUXILIARY CIRCUIT	Rated insulation voltage	U_i	V	690		
	Thermal current	I_{th}	A	16		
	Rated operational current	230 V	I_e	A	6	
		400 V			4	
	AC-15	500 V			2	
690 V				1		

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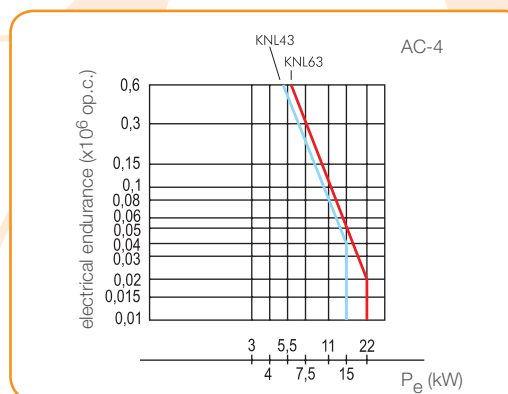
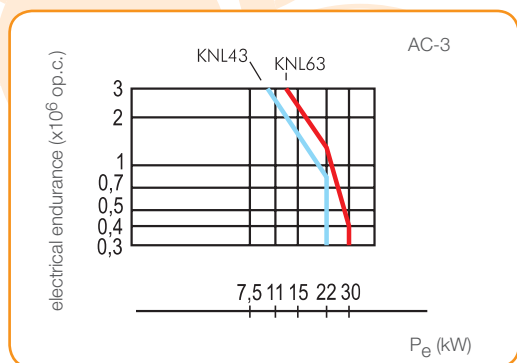
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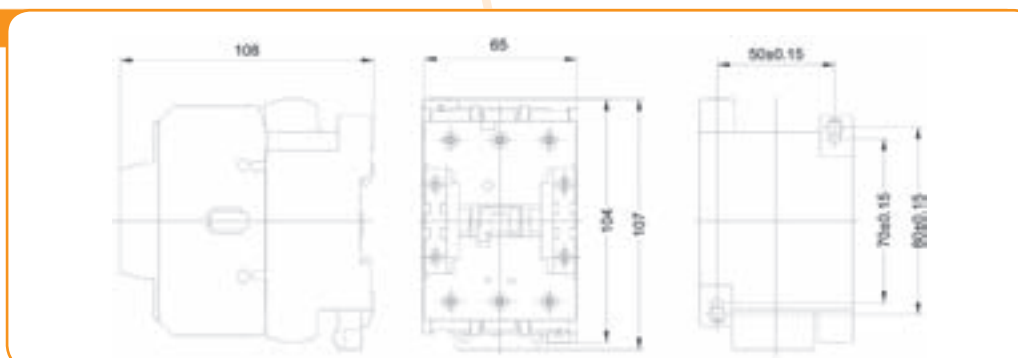
TECHNICAL DATA				MOTOR CONTACTORS		
AUXILIARY CIRCUIT	Type			KNL43	KNL63	
	Rated operational current	24 V		4		
	DC-13	110 V	I_e	A	0.25	
		220 V			0.1	
	Max. back-up fuse for short-circuit protection gL Coordination type 2		I_v	A	10	
	Terminal capacity	rigid	S	mm ²	1 ... 2.5	
		flexible			1 ... 2.5	
Screw				M3.5		
Screw head				PZ 2		
Tightening torque			Nm	0.8		
MAGNETIC SYSTEM	Coil consumption	switch-on	P_c	VA	130	
				W	80	
		operation		VA	10	
				W	3	
	Make / brake delays	make		ms	10 - 20	
		brake				8 - 15
	Range of control voltage		U_c	%	85 ... 110	
	Control voltage		U_c	V	12 ... 500	
	Terminal capacity	rigid	S	mm ²	1 ... 2.5	
		flexible			1 ... 2.5	
	Screw				M3.5	
Screw head				PZ 2		
Tightening torque			Nm	0.8		

STANDARD CONTROL VOLTAGES AND DESIGNATIONS (AC)

V	24	42	48	220/240	380/415
50/60 Hz	B7	D7	E7	M7	Q7



DIMENSIONS



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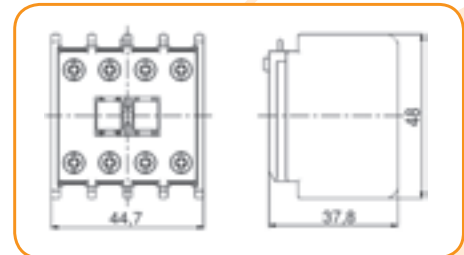
KNL43, KNL63

ACCESSORIES

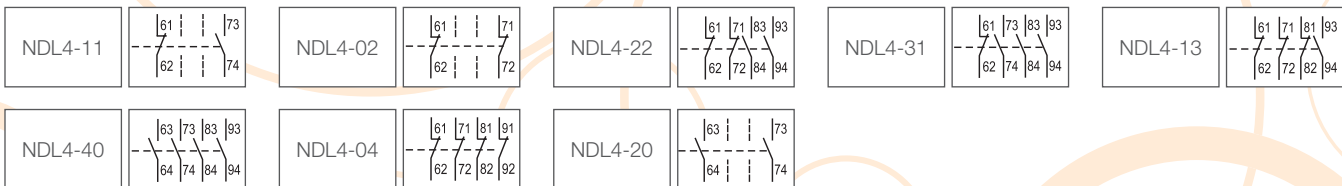


NDL4

Two- and four-pole snap-on auxiliary switch blocks (mounting on a basic contactor)



Type	Version	Rated operational current Ie (A) at AC-15			
		230 V	400 V	500 V	690 V
NDL4	-11, -02, -20, -22, -31, -13, -40, -04	6	4	2	1



MBL43 Mechanical interlock

ORDERING DATA

The type designation and control voltage are stated when ordering the contactors.

KNL43/63 - 11 - M7 - 50/60

