

Contactors

KNL CONTACTORS

KNL80, KNL90, KNL110



- Contactors are used for switching electric motors and other resistive, inductive and capacitive loads
- Possibility of fixing the snap-on auxiliary switch block with auxiliary contacts
- Possibility of connecting the BR90 thermal overload relay for protection against overload and in case of phase failure
- Assembly to a 35 mm or 75 mm wide mounting rail (EN 60715) or fixing with screws
- Degree of protection IP20, at extra installation of the G265 protection unit
- Fixing to the vertical or horizontal surface by $\pm 30^\circ$ deviation

TECHNICAL DATA				MOTOR CONTACTORS				
GENERAL	Type			KNL80	KNL90	KNL110		
	Standards			IEC/EN 60947-1, IEC/EN 60947-4-1, UL 508				
	Approvals			UL, GOST				
	Ambient temperature		°C	-50 ... +70				
	Storage temperature		°C	-60 ... +80				
	Mechanical endurance		op. c.	15 x 10 ⁶				
	Max. mechanical operating frequency with no load		c./h	3600				
	Weight		kg	1.28				
MAIN CIRCUIT	Rated insulation voltage		U_i	V	690			
	Thermal current at $\leq 40^\circ\text{C}$		I_{th}	A	125	125	125	
	Rated power at $\leq 40^\circ\text{C}$	230 V		P_e	kW	47	47	47
		400 V				82	82	82
		500 V				108	108	108
		690 V				128	128	128
	Rated motor power at $\leq 55^\circ\text{C}$	3-fazno	230 V	P_e	kW	23	27.6	33
			400 V			41	50	61
			500 V			56	56	59
			690 V			74	74	80
	Rate motor power acc. to UL	3-fazno	240 V	P_e	HP	30	30	40
480 V			60			60	75	
600 V			75			75	100	
Rated motor power AC-4	≤ 400 V		P_e	kW	20	23	23	

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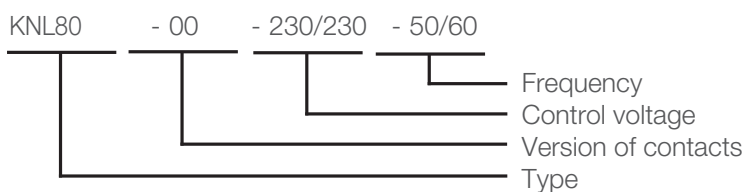
TECHNICAL DATA				MOTOR CONTACTORS				
MAIN CIRCUIT	Type				KNL80	KNL90	KNL110	
	Electrical endurance AC-3 / AC-4		x 10 ⁶	op. c.	1.3/0.2	1.2/0.2	0.8/0.2	
	Rated operational current at: 24/110/220 V	DC-1	1 ¹⁾	<i>I_e</i>	A	70/8/6	70/8/6	70/8/6
			2 ¹⁾			100/80/40	100/80/40	100/80/40
			3 ¹⁾			100/85/55	100/85/55	100/85/55
	¹⁾ Number of poles in series	DC-3 – DC-5	1 ¹⁾	<i>I_e</i>	A	40/3/1	40/3/1	40/3/1
			2 ¹⁾			60/40/7	60/40/7	60/40/7
			3 ¹⁾			80/60/35	80/60/35	80/60/35
	Max. back-up fuse for short-circuit protection Coordination type 2	gG	<i>I_v</i>	A	160	160	160	
		aM			80	100	125	
Terminal capacity	rigid	S	mm ²	6 ... 50				
	flexible			6 ... 50				
Screw				M6				
Screw head			imbus	hexagon socket oval head				
Tightening torque			Nm	4.5				
MAGNETIC SYSTEM	Coil consumption	switch-on	AC	VA	210			
			DC	W	15			
		operation	AC	VA	18			
			DC	W	15			
	Make / Break delay	make	AC	ms	13 - 25			
					break	8 - 12		
		make	DC			60 - 90		
					break	7 - 12		
	Range of control voltage	<i>U_c</i>	%	85 ... 110				
	Control voltages	<i>U_c</i>	V	12 ... 600				
Terminal capacity	rigid	S	mm ²	2.5				
	flexible			2.5				
Screw				M3.5				
Screw head				Phillips 1				
Tightening torque			Nm	0.8 - 1				

STANDARD CONTROL VOLTAGES (AC)

V	24	48	110	220/230	240	380/400
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ORDERING DATA

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



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ACCESSORIES



G484

G484
Snap-on auxiliary switch
blocks
(Type -12, -21)

BR90 OVERLOAD RELAY

Type	Rated operational current at 230 V and AC-15	Setting ranges (A)
BR90	2.5 A	60 - 82; 70 - 95; 90 - 110

DIMENSIONS

