

# Contactors

## KNL CONTACTORS

### KNL6, KNL9, KNL12, KNL16, KNL18, KNL22, KNL30

TECHNICAL DATA				CONTACTOR RELAYS		
GENERAL	Type			KNL6		
	Standards			IEC / EN 60947-5-1, UL 508		
	Approvals			UL, CSA, GOST		
	Climatic class			constant damp heat (IEC 60068-2-78) cyclic damp heat (IEC 60068-2-30)		
	Ambient temperature	open	°C	-25 ... +55		
		closed		-25 ... +40		
	Storage temperature		°C	-30 ... +80		
	Mechanical endurance		op. c.	10 <sup>7</sup>		
	Max. mechanical operating frequency with no load		op. c./h	3000		
	Max. electrical operating frequency AC-15/DC-13		op. c./h	1200/1200		
Weight		kg	0.3			
MAIN CIRCUIT	Rated insulation voltage		$U_i$	V	690	
	Thermal current		$I_{th}$	A	20	
	Rated operational current AC-15	230 V	$I_e$	A	6	
		400 V			4	
		500 V			2	
		690 V			1	
	Rated operational current DC-13	24 V	$I_e$	A	10	
		60 V			4	
		110 V			0.9	
		220 V			0.4	
Electrical endurance of contacts AC-15		op. c.	diagram 1			
Max. back-up fuse for short-circuit protection gL Coordination type 2		$I_v$	A	20		
MAGNETIC SYSTEM	Coil consumption	switch-on	$P_c$	VA	66	
				W	48	
	operation		VA	8		
			W	2.5		
	Make / Break delay	make	NO	ms	10 - 15	
			NC		15 - 20	
		break	NO		10 - 15	
			NC		8 - 15	
	Rated control voltage limits for closing		$U_c$	%	85 ... 110	
	Control voltages		$U_c$	V	12 ... 600	
Terminal capacity	rigid	S	mm <sup>2</sup>	0.75 ... 4		
	flexible			0.5 ... 2.5		
Screw				M3.5		
Screw head				PZ2		
Tightening torque			Nm	1.4		

#### Standard control voltages and designations (AC)

V	24	42	48	110/125	220/240	380/415	440	480/520
50/60 Hz	B7	D7	E7	F7	M7	Q7	R7	S7