



DC controlled contactors

Designation / Marking:

C9.00 with DC D coil
C9.00 __ V DC D
 __ rated control voltage

Technical data

Rated insulation voltage	U_i	690	[V]
Impulse withstand voltage	U_{imp}	8	[kV]
Overvoltage category according to ČSN EN 60947-1		III	[-]
Working environment - degree of pollution		3	[-]
Ambient temperature range		-50 .. +60	[°C]
Storage temperature		-55 .. +80	[°C]
Operating altitude		2000	[m]
Environmental conditions		any acc. to EN 60721-2-1	
Flammability of materials according to EN 60695-11-10 or UL94		V-0	[-]
Vibration and shock resistance according to ČSN EN 61373 ed. 2		category 1, class A	
Level of safety and reliability according to EN 13849-1		B10d = 2 000 000 cycles	
Main dimensions W x H x D		45 x 78,5 x 73	[mm]
Mass		0,34	[kg]
Mass including unit packing		0,36	[kg]
Degree of protection acc. to VDE 0106, part 100		IP20	

Main poles

Number and type of contacts			3 x NO	
Conventional free air thermal current	I_{th}		32	[A]
Rated operational current I_b				
in AC-1 at 400 V	I_b		25	
in AC-1 at 500 V	I_b		25	
in AC-3 at 400 V	I_b		11,3	[A]
in AC-4 at 400 V	I_b		4,7	
in DC-1 at 220 V DC (all three poles connected in series)	I_b		25	
in DC-3 at 220 V DC (all three poles connected in series)	I_b		12	
in DC-5 at 220 V DC (all three poles connected in series)	I_b		8	
Max. output power of controlled motor in AC-3				
at 220-230 V			2,2	
at 380-400 V			5,5	[kW]
at 500 V			5,5	
at 660-690 V			5,5	
Max. output power of controlled motor in AC-4:				
at 380-400 V			2	
at 500 V			2,5	[kW]
Short time withstand currents from the cold state at the max. ambient temp. 40 °C:				
1 sec			220	
5 sec			150	
10 sec			120	
30 sec			75	[A]
1 min			60	
3 min			40	
10 min			30	
Max. number of on-load op. cycles per hour				
in AC-1			300	[op. cycles/hour]
in AC-3			1200	
in AC-4			600	
Recommended fuse char. aM			10	[A]
Type of coordination according to IEC 60947-4-1			2	
Mechanical durability			10x10 ⁶	
Electrical durability in AC-1 at 400 V for rated op. current			0,15x10 ⁶	[op. cycles]
Electrical durability in AC-3 at 400 V for rated op. current			1,5 x 10 ⁶	
Dissipation on main pole (ea)	ΔU		48	[mV]
Power dissipation per pole	I		25	[A]
Operating times from coil energization to	P		1,2	[W]
closing of the N.O. contact			12,7 - 16,6	[ms]
opening of the N.C. contact			non applicable	[ms]
Operating times from coil deenergization to				
opening of the N.O. contact			7,1 - 12,2	[ms]
closing of the N.C. contact			non applicable	[ms]
Positively guided contacts acc. to IEC 60947-4-1/A1 ed. 2 - Annex F (auxiliary contacts linked with power contacts - mirror contact).				non applicable
Terminal type			Screw-type	
Screw type / Screw size			combined PH2 + simple slots / M3,5	
Tightening torque			0,8	[Nm]
Conductor cross-section:				
Rigid			1..4	[mm ²]
Flexible			1..2,5	[mm ²]



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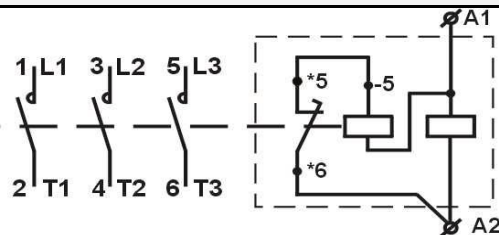
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Auxiliary contacts

Configuration can be completed with additional blocks PK or PKB

Control circuit

Rated control voltage	DC	[V]
Tolerance of control voltage	-15 .. +10	[%]
Drop-out voltage	>25% U _c	
Pull-in input power of DC control coil ±10%	70..80	[W]
Hold-in input power of DC control coil ±10%	1.5..1.9	[W]
Terminal type	Screw-type	
Screw size	M3,5	
Tightening torque	0,8	[Nm]
Max. conductor cross-section:		
Rigid	1..2,5	[mm ²]
Flexible	0,75..1,5	[mm ²]

Marking of terminals


All terminals facilitate connecting of either single conductor up to the maximum cross-section, or two conductors of the same or by one degree different cross-sections except for the maximum one. Flexible conductors must not be compacted by brazing.

Ecological sustainability

REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant
Mercury free	Yes
OOEZ - certificate of involvement in the system	AK-6-019136