
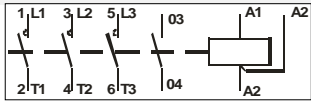


 Elektropřístroj	Technical data sheet	Contactors	Date: 19. 1. 2019
		AC controlled contactor	Registration number:
C9.10 with AC coil			
Technical data			
Rated insulation voltage	U_i	690	[V]
Impulse withstand voltage	U_{imp}	8	[V]
Conventional free air thermal current	I_n	32	[A]
Main dimensions W x H 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	
Seismic resistance		1a acc. to IEC 980:1993 It passed the seismic tests for NPP Dukovany and Temelin	
Flammability class according to UL94		V0	
Main poles			
Number of contacts		3 x NO	
Rated operational current I_n			[A]
in AC-1 at 400 V	I_n	25	
in AC-1 at 500 V	I_n	25	
in AC-3 at 400 V	I_n	9	
in AC-4 at 400 V	I_n	4,7	
in DC-1 at 220 V DC (all three poles connected in series)	I_n	25	
in DC-3 at 220 V DC (all three poles connected in series)	I_n	12	
in DC-5 at 220 V DC (all three poles connected in series)	I_n	8	
Max. output power of controlled motor in AC-3 (AC-4)			[kW]
at 220-230 V		2,2	
at 380-400 V		4 (2)	
at 500 V		5,5 (2,5)	
at 660-690 V		5,5	
Short time withstand currents from the cold state at the max. ambient temp. 40 °C:			[A]
1 sec		220	
5 sec		150	
10 sec		120	
30 sec		75	
1 min		60	
3 min		40	
10 min		30	
Min. conductor cross section 2,5 mm ²			
Max. number of on-load op. cycles per hour			[op. cycles/hour]
in AC-1		300	
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	
Voltage drop on each main pole	ΔU	48	[mV]
	I	25	[A]
Power dissipation per pole	P	1,2	[W]
Operating times from coil energization to			[ms]
closing of the N.O. contact		12,7 - 16,6	
opening of the N.C. contact		non applicable	
Operating times from coil deenergization to			[ms]
opening of the N.O. contact		7,1 - 12,2	
closing of the N.C. contact		non applicable	
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:			[mm ²]
Rigid		1..4	
Flexible		1..2,5	
Auxiliary contacts			
Number of contacts		1 x NO	
Rated insulation voltage	U_i	690	[V]
Impulse withstand voltage	U_{imp}	8	[kV]
Conventional free air thermal current	I_n	25	[A]
Rated operational current in AC-15:			[A]
at 220-230 V	I_n	4	
at 380-400 V	I_n	2	
Electrical durability in AC-15:			[op. cycles]
at 220-230 V, 4 A		0,8 x 10 ⁶	
Power Dissipation for one aux. pole NO		1 x 10 ⁶	[op. cycles]
Operating times from coil energization to		0,08	[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			[ms]
opening of the N.O. contact		7,1 - 12,2	
closing of the N.C. contact		non applicable	
Positively guided contacts according to IEC 60947-5-1/A2 ed. 2 - Annex L (mechanically linked contacts).			non applicable
Terminal type		screw-type terminal	
Screw type / Screw size		combined PH2 + simple slots / M3,5	
Tightening torque		0,8	[Nm]
Max. conductor cross-section:			[mm ²]
Rigid		1.. 2,5	
Flexible		0,75 .. 1,5	
Control circuit			
Tolerance of control voltage		-15 .. +10	[%]
Drop-out voltage			
Pull-in input power of AC control coil $\pm 10\%$		60	[VA]
Hold-in input power of AC control coil $\pm 10\%$		10,5 / 3,9	[VA/W]
Terminal type		screw-type terminal	
Screw size		M3,5	
Tightening torque		0,8	[Nm]
Max. conductor cross-section:			[mm ²]
Rigid		1 .. 2,5	
Flexible		0,75 .. 1,5	
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.			
Marking of terminals			
			
Approved:		Date:	Stamp:
 Miroslav Prokeš Technical Director		19.1.2019	 Elektropřístroj s. r. o. Mezi Vodami 1955, 143 04 Praha 4 - Modřany IČ: 49356313