

	<b>Technical data sheet</b>	<b>Contractors</b> Date: 19. 1. 2019
<b>AC controlled contactor</b>  <b>C9.01 with AC coil</b>		Registration number:
<b>Technical data</b>		
Rated insulation voltage		U <sub>i</sub> 690 [V]
Impulse withstand voltage		U <sub>imp</sub> 8 [V]
Conventional free air thermal current		I <sub>th</sub> 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
<b>Main poles</b>		
Number of contacts		3 x NO
Rated operational current I <sub>b</sub>		
in AC-1 at 400 V		I <sub>b</sub> 25 [A]
in AC-1 at 500 V		I <sub>b</sub> 25 [A]
in AC-3 at 400 V		I <sub>b</sub> 9 [A]
in AC-4 at 400 V		I <sub>b</sub> 4,7 [A]
in DC-1 at 220 V DC (all three poles connected in series)		I <sub>b</sub> 25 [A]
in DC-3 at 220 V DC (all three poles connected in series)		I <sub>b</sub> 12 [A]
in DC-5 at 220 V DC (all three poles connected in series)		I <sub>b</sub> 8 [A]
Max. output power of controlled motor in AC-3 (AC-4)		
at 220-230 V		2,2 [kW]
at 380-400 V		4 (2) [kW]
at 500 V		5,5 (2,5) [kW]
at 660-690 V		5,5 [kW]
<b>Short time withstand currents from the cold state at the max. ambient temp. 40 °C:</b>		
1 sec		220 [A]
5 sec		150 [A]
10 sec		120 [A]
30 sec		75 [A]
1 min		60 [A]
3 min		40 [A]
10 min		30 [A]
Min. conductor cross section 2,5 mm <sup>2</sup>		
Max. number of on-load op. cycles per hour		
in AC-1		300 [op. cycles/hour]
in AC-3		1200 [op. cycles/hour]
in AC-4		600 [op. cycles/hour]
Recommended fuse char. aM		10 [A]
Type of coordination according to IEC 60947-4-1		2 [A]
Mechanical durability		10x10 <sup>6</sup> [op. cycles]
Electrical durability in AC-1 at 400 V for rated op. current		0,15x10 <sup>6</sup> [op. cycles]
Electrical durability in AC-3 at 400 V for rated op. current		1,5 x 10 <sup>6</sup> [op. cycles]
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		
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 <sup>2</sup> ]
Flexible		1..2,5 [mm <sup>2</sup> ]
<b>Auxiliary contacts</b>		
Number of contacts		1 x NC
Rated insulation voltage		U <sub>i</sub> 690 [V]
Impulse withstand voltage		U <sub>imp</sub> 8 [kV]
Conventional free air thermal current		I <sub>th</sub> 25 [A]
Rated operational current in AC-15:		
at 220-230 V		I <sub>b</sub> 4 [A]
at 380-400 V		I <sub>b</sub> 2 [A]
Electrical durability in AC-15:		
at 220-230 V, 4 A		0,8 x 10 <sup>6</sup> [op. cycles]
Power Dissipation for one aux. pole NO		0,08 [W]
Operating times from coil energization to		
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 according to IEC 60947-5-1/A2 ed. 2 - Annex L (mechanically linked contacts).		yes
Terminal type		screw-type terminal
Screw type / Screw size		combined PH2 + simple slots / M3,5
Tightening torque		0,8 [Nm]
Max. conductor cross-section:		
Rigid		1.. 2,5 [mm <sup>2</sup> ]
Flexible		0,75 .. 1,5 [mm <sup>2</sup> ]
<b>Control circuit</b>		
Tolerance of control voltage		-15 .. +10 [%]
Drop-out voltage		
Pull-in input power of AC control coil ±10%		60 [VA]
Hold-in input power of AC control coil ±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:		
Rigid		1 .. 2,5 [mm <sup>2</sup> ]
Flexible		0,75 .. 1,5 [mm <sup>2</sup> ]
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.		
<b>Marking of terminals</b>		
Approved:		Date: 19.1.2019
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