

Technical specifications

		Insta contactors				Auxiliary switches
Data according to IEC 60947-4-1, IEC 60947-5-1, IEC 61095, EN 60947-4-1, EN 60947-5-1, EN 61095, VDE 0660		5TT5 80 .	5TT5 83 .	5TT5 84 .	5TT5 85 .	5TT5 910
Number of poles		2	4	4	4	2
Rated frequency at AC	Hz	50/60				
Rated control voltage U_C	V AC	24, 230	24, 115, 230	24, 230	24, 230	--
Operating range	x U_C	0.85 ... 1.1	0.85 ... 1.1	0.85 ... 1.1	0.85 ... 1.1	--
Rated operational voltage U_e	V AC	250	440	440	440	230/400
Rated operational current I_e	A	20	25	40	63	6 (4 at AC-15)
Rated power dissipation P_v						
• Pick-up power (without manual switch or manual switch in "I" position)	VA; W	15; 13	27; 17	62; 50		--
• Pick-up power (with manual switch in "AUTO" position)	VA; W	6; 3.8	5.2; 2	15.4; 6		--
• Holding power	VA/W	3/1.9	2.6/1	7.7/3		--
• Per contact	VA	1.7	2.2	4	8	--
Switching times						
• Closing (NO contacts)	ms	15 ... 25	10 ... 20	15 ... 20		--
• Opening (NO contacts)	ms	20	20	10		--
• Closing (NC contacts)	ms	10	10	5 ... 10		--
• Opening (NC contacts)	ms	20 ... 25	25 ... 30	10 ... 15		--
Rated impulse withstand voltage U_{imp}	kV	4				
Rated insulation voltage U_i	V	440		500		
Contact gap, minimum	mm	3.6		3.4		4
Electrical service life in switching cycles at I_e and load						
• AC-1/AC-7a		200000		100000		--
• AC-3/AC-7b		300000	500000	150000		--
Mechanical service life in switching cycles		3 million				
Maximum switching frequency with load in switchings/h		600				
Switching of resistive loads AC-1/AC-7a for rated operational power P_s						
• 1-phase 230V	kW	4	9	16	24	--
• 3-phase 400V	kW	--	16	26	40	--
Switching of three-phase asynchronous motors AC-3/AC7b for rated operational power P_s						
• 1-phase 230V	kW	1.3 ¹⁾	2.2	5.5	8.5	--
• 3-phase 400V	kW	--	4	11	15	--
Minimum switching capacity	V; mA	17; 50				12, 10
Overload withstand capability per conducting path (NO contact only) at 10 s	A	72		176	240	--
Short-circuit protection, according to coordination type 1 Back-up fuse characteristic gL/gG	A	20	35	63	80	6
Terminals						
• Coil connection ± screw (Pozidriv)		1				--
• Main connection ± screw (Pozidriv)		1		2		1
Tightening torques						
• Coil connection	Nm	0.6				--
• Main connection	Nm	1.2		2		0.8
Conductor cross-sections						
• Coil connection rigid	mm ²	1.0 ... 2.5				--
• Coil connection flexible with sleeve	mm ²	1.0 ... 2.5				--
• Main connection rigid	mm ²	1.0 ... 10		1 ... 25		1 ... 2.5
• Main connection flexible with sleeve	mm ²	1.0 ... 6		1 ... 16		1 ... 2.5
Permissible ambient temperature						
• For operation	°C	-5 ... +55				
• For storage	°C	-30 ... +80				
Degree of protection according to EN 60529		IP20				

1) for NO contacts only