Technical specifications

			Insta contactors				Auxiliary switches
			5TT5 80 .	5TT5 83 .	5TT5 84 .	5TT5 85 .	5TT5 910
Standards			IEC 60947-4-1, IEC 60947-5-1, IEC 61095; EN 60947-4-1, EN 60947-5-1, EN 61095				
Approved acc. to			VDE 0660 VDE				
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				--
Rated operational voltage U_e		V AC	250	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							
at I_e and load							
• AC-1/AC-7a		for switching cycles	200000		100000		--
• AC-3/AC-7b			300000	500000	150000		--
Mechanical service life		for switching cycles	3 million				
Maximum switching frequency							
at load		in switching cycles/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/AC-7b							
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 contacts 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	± screw (Pozidriv)						
• Coil connection			1				--
• Main connection			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				--
	flexible, with end sleeve	mm^2	1.0 ... 2.5				--
• Main connection	rigid	mm^2	1.0 ... 10		1 ... 25		1 ... 2.5
	flexible, with end 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	acc. to EN 60529		IP20, with connected conductors				

[1)] For NO contacts only