

Switching Devices

5TT5 7 Insta contactors

Technical specifications

				5TT5 73 4-pole	5TT5 74 4-pole	5TT5 75 4-pole
Rated frequency	at AC	Hz		40 ... 450		
Rated control voltage U_c		V AC		24, 115, 230	24, 230	
		V DC		24, 110, 220	24, 220	
Operating range		$\times U_c$		0.85 ... 1.1		
Rated operational voltage U_e		V		440	440	440
Rated operational current I_e						
• AC-1/AC-7a, NO contacts		A		24	40	63
• AC-1/AC-7a, NC contacts		A		24	30	30
• AC-3/AC-7b, NO contacts		A		9	22	30
• AC-3/AC-7b, NC contacts		A		6	--	--
Rated power dissipation P_v						
• Pick-up power		VA/W		4/4	5/5	65/65
• Holding power		VA/W		4/4	5/5	4.2/4.2
• Per contact AC-1/AC-7a		VA		1.5	3	6
Switching times						
• Closing (NO contacts)		ms		≤ 40	≤ 40	≤ 40
• Opening (NO contacts)		ms		≤ 40	≤ 40	≤ 40
Rated impulse withstand voltage U_{imp}		kV		≥ 4		
Contact gap	(NO contacts) min.	mm		2.4	2.8	2.6
Electrical service life in switching cycles at I_e and load	AC-1/AC-7a AC-3/AC-7b			150000 500000	170000	240000
Mechanical service life				1 million		
Maximum switching frequency at load	AC-1/AC-7a AC-3/AC-7b			300 operations/h 600 operations/h		
Switching of resistive loads AC-1 for rated operational power P_s (NO contacts)	1-phase 3-phase	V AC kW kW		230 5.3 16	230 8.8 26	230 13.8 41
Switching of three-phase asynchronous motors AC-3 for rated operational power P_s (NO contacts)	1-phase 3-phase	V AC kW kW		400 -- 4	400 -- 11	400 -- 15
Minimum switching capacity				$\geq 17 \text{ V}, \geq 200 \text{ mA}$		
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		35	63	80
Terminals						
• Coil connection	$\pm$ screw (Pozidriv)			1	1	1
• Main connection				1	2	2
Tightening torques						
• Coil connection		Nm		0.9	0.9	0.9
• Main connection		Nm		1.0	2.5	2.5
Conductor cross-sections						
• Coil connection	rigid flexible with sleeve	mm ² mm ²		1.5 ... 4 1.5 ... 2.5	1.5 ... 4 1.5 ... 2.5	1.5 ... 4 1.5 ... 2.5
• Main connection	rigid flexible with sleeve	mm ² mm ²		1.5 ... 10 1.5 ... 6	2.5 ... 25 2.5 ... 16	2.5 ... 25 2.5 ... 16
Permissible ambient temperature						
• For operation		°C		-25 ... +55	-25 ... +55	-25 ... +55
• For storage		°C		-50 ... +80	-50 ... +80	-50 ... +80
Degree of protection	according to EN 60529			IP20		