

Technical specifications

			5TT5 73 4-pole	5TT5 74 4-pole	5TT5 75 4-pole
Standards			EN 60947-4-1, EN 60947-5-1, EN 61095		
Approved acc. to			UL 508, UL File No. E303328		
Rated frequency at AC f_n	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		
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		
• Opening (NO contacts)	ms		≤ 40		
Rated impulse withstand voltage U_{imp}	kV		≥ 4		
Contact gap (S contacts) min.	mm		2.4	2.8	2.6
Electrical service life					
at I_e and load	AC-1/AC-7a	for switching cycles	150000		
	AC-3/AC-7b		500000	170000	240000
Mechanical service life			1 million		
Maximum switching frequency					
at load	AC-1/AC-7a	switching cycles/h	300		
	AC-3/AC-7b	switching cycles/h	600		
Switching of resistive loads AC-1					
for rated operational power P_s (NO contacts)					
• 1-phase	V AC		230	230	230
• 3-phase	kW		5.3	8.8	13.8
	kW		16	26	41
Switching of three-phase asynchronous motors AC-3					
for rated operational power P_s (NO contacts)					
• 1-phase	V AC		400	400	400
• 3-phase	kW		--	--	--
	kW		4	11	15
Minimum switching capacity			$\geq 17; \geq 200$		
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			1	1	1
• Main connection			1	2	2
Tightening torques					
• Coil connection			0.9	0.9	0.9
• Main connection			1.0	2.5	2.5
Conductor cross-sections					
• Coil connection	rigid	mm ²	1.5 ... 4	1.5 ... 4	1.5 ... 4
	flexible, with end sleeve	mm ²	1.5 ... 2.5	1.5 ... 2.5	1.5 ... 2.5
• Main connection	rigid	mm ²	1.5 ... 10	2.5 ... 25	2.5 ... 25
	flexible, with end sleeve	mm ²	1.5 ... 6	2.5 ... 16	2.5 ... 16
Permissible ambient temperature					
• For operation			$-25 \dots +55$		
• For storage			$-50 \dots +80$		
Degree of protection			IP20, with connected conductors		
Acc. to UL 508					
UL 508 General Use 240 V/480 V			24	40	63
UL 508 AC discharge lamps			24	40	63
UL 508 motor load 240 V			24	30	40
UL 508 motor load 480 V			3	7.5	10
UL 508 Short-circuit at 480 V			5	15	15
K5 fuses			25	40	75
			5		