

Technical specifications

			5TE1 .1	5TE1 .2	5TE1 .3	5TE1 .4
Standards			IEC/EN 60947-3, UL 508			
Approved acc. to			UL 508 for the following types: 5TE1 320, 5TE1 330, 5TE1 340, 5TE1 420, 5TE1 430 and 5TE1 440. UL File No. E302554			
Rated operational current I_e	Per conducting path at $U_e =$	400 V DC A	100	125	160	200
With utilization category AC-21A		415 V DC A	100	125	160	200
		500 V DC A	100	125	160	200
		690 V DC A	100	125	160	200
Rated operational current I_e	Per conducting path at $U_e =$	400 V DC A	100	125	160	200
With utilization category AC-22A		415 V DC A	100	125	160	200
		500 V DC A	100	100	160	200
		690 V DC A	63	63	160	200
Rated operational current I_e	Per conducting path at $U_e =$	400 V DC A	80		125	160
With utilization category AC-23A		415 V DC A	80		125	160
		500 V DC A	50		125	125
		690 V DC A	40		63	80
Rated operational current I_e	2 poles in series	110 V DC A	100		160	
With utilization category DC-23A	2 poles in series	220 V DC A	--		100	
	4 poles in series	220 V DC A	100		160	
Rated operational voltage U_e			V AC	Acc. to UL: 480, acc. to IEC: 690		
Rated insulation voltage U_i			V AC	690		
Rated impulse withstand voltage U_{imp}	2000 m	kV	8			
Impulse test voltage	At sea level	kV	12.3			
Max. rated operational power	At $U_e =$	400 V DC kW	44		69	88
With utilization category AC-23A		415 V DC kW	46		72	92
		500 V DC kW	35		86	86
		690 V DC kW	36		60	76
Thermal rated current I_{th}	At 40 °C, 50 °C and 60 °C	A	100	125	160	200
Rated making capacity	At 415 V AC-23A	A	1875		3200	4000
Rated breaking capacity	At 415 V AC-23A	A	1000		1920	2400
Rated short-circuit making capacity I_{cm}	Per conducting path At $U_e =$	400 V DC kA	10			
		415 V DC kA	10			
		500 V DC kA	6.7			
		690 V DC kA	6.7			
Rated short-time withstand current I_{cw}	Per conducting path	0.25 s kA	5		6	
(peak value)		1 s kA	2.5		3	
Rated conditional short-circuit current	At $U_e =$	400 V DC kA	50			
With back-up protection with back-up fuse		415 V DC kA	50			
With identical rated current		500 V DC kA	50			
		690 V DC kA	33	33	20	18
Capacitive load	At 400 V	kVar	50	60	77	97
Number of poles			2/3/4			
Rated power dissipation P_v	Per pole	VA	2.9	4.5	6.5	10
Frequency			50/60			
Conductor cross-sections						
• Solid and stranded			mm ²	6 ... 50	--	
• AWG cables			AWG	10 ... 1/0	8	
• Copper busbars			mm ²	--	Max. 20 x 6	
Service life	Electrical	Switching cycles	1500		1000	
	Mechanical		20000		10000	
Acc. to UL 508	I_n	A	--	80	100	125
UL 508 General Use 480 V	FLA (full load amperes)	A	--	28	34	40
UL 508 manual motor controller 230 V	Power	hp	--	10	25	30
UL 508 manual motor controller 480 V	Power	hp	--	20	15	15
UL 508 short circuit at 480 V	With Class H or K5 fuses	kA	--	10		
	With J fuses	kA	--	50		