

Switches and Light Indicators

5TE8 ON/OFF switches

Technical specifications

20 A: according to IEC 60947-3, EN 60947-3 (VDE 0660 Part 107) and IEC 60669-1, EN 60669-1 (VDE 0632 Part 1)				5TE8 1	5TE8 2
32 A: according to IEC 60947-3, EN 60947-3 (VDE 0660 Part 107)					
Rated operational current I_e	per conducting path	A	20		32
Rated operational voltage U_e	1-pole multipole	V AC V AC	230 400		
Rated power dissipation P_v	per pole, max.	VA	0.7		
Thermal rated current I_{the}		A	20		32
Rated breaking capacity	at p.f. = 0.65	A	60		96
Rated making capacity	at p.f. = 0.65	A	60		96
Short-circuit strength used together with a fuse with the same rated operational current (EN 60269 gL/gG)		kA	10		
Rated impulse withstand voltage U_{imp}		kV	> 5		
Clearances	open contacts ¹⁾ between the poles	mm mm	2 x > 2 > 7		
Creepage distances		mm	> 7		
Mechanical service life	switching cycles		25000		
Electrical service life	switching cycles		10000		
Minimum contact loads		V; mA	10; 300		
Rated short-time currents²⁾ per conducting path at p.f. = 0.7	up to 0.2 s up to 0.5 s up to 1 s up to 3 s	A A A A	650 400 290 170	1000 630 450 250	
Terminals/max. tightening torque	± screw (Pozidriv); Nm		1; 1.2		
Conductor cross-sections	rigid flexible with sleeve	mm ² min. mm ²	1.5 ... 6 1		
Permissible ambient temperature		°C	-5 ... +40		
Resistance to climate according to DIN 50015 at 95 % relative humidity		°C	45		

40 A ... 100 A: according to IEC 60947-3, EN 60947-3 (VDE 0660 Part 107) and IEC 60669-1, EN 60669-1 (VDE 0632 Part 1)									
32 A and 125 A: according to IEC 60947-3, EN 60947-3 (VDE 0660 Part 107)									
Rated operational current I_e	per conducting path	A	32	40	63	80	100	125	
Rated operational voltage U_e	1-pole multipole	V AC V AC	230 400						
Rated power dissipation P_v	per pole, max.	VA	0.7	0.9	2.2	3.5	5.5	8.6	
Thermal rated current I_{the}		A	32	40	63	80	100	125	
Rated breaking capacity	at p.f. = 0.65	A	96	120	196	240	300	375	
Rated making capacity	at p.f. = 0.65	A	96	120	196	240	300	375	
Short-circuit strength used together with a fuse with the same rated operational current (EN 60269 gL/gG)		kA	10						
Rated impulse withstand voltage U_{imp}		kV	> 5						
Clearances	open contacts between the poles	mm mm	> 7 > 7						
Creepage distances		mm	> 7						
Mechanical service life	switching cycles		20000						
Electrical service life	switching cycles		10000		5000	1000			
Minimum contact loads		V; mA	24; 300						
Rated power switching of resistive loads including moderate overload AC-21	1-pole 2-pole 3-/4-pole	kW kW kW	5 9 15	6.5 11 15	10 18 30	13 22 39	16 28 48	16 28 48	
Rated short-time currents²⁾ per conducting path at p.f. = 0.7	up to 0.2 s up to 0.5 s up to 1 s up to 3 s	A A A A	760 500 400 280	950 630 500 350	1500 1000 800 560	2700 1650 1350 800	3400 2100 1700 1000	3400 2100 1700 1000	
Terminals/max. tightening torque	± screw (Pozidriv); Nm		2; 3.5						
Conductor cross-sections	rigid flexible with sleeve	mm ² min. mm ²	1 ... 35 1			2.5 ... 50 2.5			
Permissible ambient temperature		°C	-5 ... +40						
Resistance to climate according to DIN 50015 at 95 % relative humidity		°C	45						

¹⁾ For 5TE8 14. switches with center position = 2 x 2.5 mm.

²⁾ The corresponding rated surge current can be established by multiplying by factor 1.5.