

Modular Installation Devices, Mounting Depth 55 mm >N< Switches

5TE7 1 ... 5TE7 3 switches

Technical specifications

			5TE7 1	5TE7 2 5TE7 3
16 A, 25 A and 40 A acc. to DIN VDE 0632 Part 101 and DIN VDE 0660 Part 107				
32 A acc. to EN 60947-3 and DIN VDE 0660 Part 107				
40 A to 125 A acc. to EN 60947-3 utilization category AC-22b but for conductor cross-sections up to 9.5 mm diameter and without complying with the bending test				
Rated operational current I_e	per current path	A	16	25, 32
Rated operational voltage U_e	1-pole	V AC	230	
	multipole	V AC	400	
Thermal rated current I_{th}		A	16	25
Rated breaking capacity	at p.f. = 0.65	A	48	75
Rated making capacity	at p.f. = 0.65	A	48	75
Short-circuit strength	used together with fuse of the same rated operational current (DIN VDE 0636 gL/gG)	kA	10	
Rated impulse withstand voltage U_{imp}		kV	> 5	
Clearances	open contacts	mm	2 × 4.5	
	between the poles	mm	> 7	
	• Creepage distances	mm	> 7	
Mechanical service life	switching cycles		25 000	
Minimum contact load		V; mA	10; 300	
Switching of lamp loads	incandescent lamp rating	kW	2.4	
	halogen lamps with transformer	kW	1.2	
• Electrical service life	switching cycles		20 000	
Rated power	1-pole	kW	2.5	--
	2-pole	kW	4.5	--
	3-/4-pole	kW	8	12
	• Electrical service life	switching cycles		20 000
Rated power	1-pole	kW	1.1	--
	2-pole	kW	1.9	--
	3-/4-pole	kW	3.5	5
	• Electrical service life	switching cycles		20 000
Rated power	1-pole	kW	0.5	--
	2-pole	kW	0.7	--
	3-/4-pole	kW	1.2	2
	• Electrical service life	switching cycles		20 000
Switching of direct voltages¹⁾	per current path up to	24 V DC A	16	25
	per current path at	24 V DC A	4	
		100 V DC A	0.9	
		220 V DC A	0.45	
Rated short-time currents²⁾	per current path	0.2 s A	650	1 000
	up to	0.5 s A	400	630
		1 s A	290	450
		3 s A	170	260
Terminals	± screw (Poqidriv)		1	
Conductor cross-sections	rigid	mm ²	1.5 ... 6	
	flexible with sleeve	min. mm ²	1	
Permissible ambient temperature		°C	-5 ... +40	
Resistance to climate	acc. to DIN 50015 at 95 % relative humidity	°C	45	

1) The switches are designed as zero-current interrupters and have no additional quenching aids.
The rated breaking current for voltages over 24 V DC is very limited due to the safety hazard of the non-quenching electric arc.

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

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Devices for switching lamps

Fluorescent and compact lamps (DULUX) in ballast operation (KVG)

Maximum number of lamps per current path at 230 V, 50 Hz

Lamp type Capacitor capacitance	W μ F	Uncorrected					Parallel-corrected				
		S11	L18	L24	L36	L58	S11	L18	L24	L36	L58
Switches											
5TE7 111	16 A	--	35	--	35	25	--	50	--	50	35
5TE7 112											
5TE7 113											

Fluorescent lamps with electronic primary switching device (ballast)

Maximum number of lamps per current path at 230 V, 50 Hz

Lamp type	W	DUO circuit specifications are for lights with 2 lamps each respectively					AC operation 1-lamp			2-lamp		
		S11	L18	L24	L36	L58	L18	L36	L58	L18	L36	L58
Switches												
5TE7 111	16 A	--	30	--	30	20	45	45	30	2 × 22	2 × 22	2 × 15
5TE7 112												
5TE7 113												

Rated power dissipation

Order No.	Short designation	Power dissipation P_v (VA) contact ¹⁾ per pole
5TE7 101	switch 16 A, 1 NO contact indicator light	0.8
5TE7 105	switch 16 A, 1 NO contact indicator light, 150 m	0.8
5TE7 111	switch 16 A, 1 NO contact	0.6
5TE7 112	switch 16 A, 2 NO contacts	0.6
5TE7 113	switch 16 A, 3 NO contacts	0.6
5TE7 141	switch 16 A, 1 CO contact, group	0.6
5TE7 142	switch 16 A, 2 CO contacts, group	0.6
5TE7 161	switch 16 A, 1 CO contact	0.6
5TE7 162	switch 16 A, 1 CO contact	0.6
5TE7 211	switch 32 A, 1 NO contact	0.6
5TE7 212	switch 32 A, 2 NO contacts	0.6
5TE7 213	switch 32 A, 3 NO contacts	2.5
5TE7 214	switch 32 A, 4 NO contacts	2.5
5TE7 313	switch 25 A 3 NO contacts	1.5
5TE7 314	switch 25 A 4 NO contacts	1.5

1) For rated operational current.