

5TE81/82 On/Off switches

Rated operational current I_e per conducting path Rigid conductor cross-section Flexible conductor cross-section, with end sleeve	5TE81 On/Off switches			5TE82 On/Off switches			
	20 A			32 A			
	1.5 ... 6 mm ²			1.5 ... 6 mm ²			
	1 ... 6 mm ²			1 ... 6 mm ²			
							
U_e AC	Mounting width	Auxiliary switches			Auxiliary switches		
		Can be retrofitted	Cannot be retrofitted	Mounted	Can be retrofitted	Cannot be retrofitted	Mounted
230 V	1 MW	5TE8111	–	–	5TE8211	–	–
400 V	1 MW	5TE8112	–	–	5TE8212	–	–
400 V	1 MW	5TE8113	–	–	5TE8213	–	–
400 V	1 MW	–	5TE8114	–	–	5TE8214	–
	1.5 MW	–	–	5TE8118	–	–	5TE8218

Further technical specifications

		5TE81	5TE82
Standards			
Standards		IEC/EN 60947-3 (VDE 0660-107), IEC/EN 60669-1	IEC/EN 60947-3 (VDE 0660-107)
Approvals		IEC/EN 60947-3 (VDE 0660-107)	
Supply			
Rated power dissipation P_v	Per pole	0.7 VA	
Contacts			
Minimum contact load		10 V; 300 mA	
Rated making/rated breaking capacity	At p.f. = 0.65	60 A/60 A	96 A/96 A
Rated short-time withstand current I_{cw} per conducting path at p.f. = 0.7	Up to 0.2 s	650 A	1000 A
	Up to 0.5 s	400 A	630 A
	Up to 1 s	290 A	450 A
	Up to 3 s	170 A	250 A
Thermal rated current I_{th}		20 A	32 A
Electrical endurance/mechanical service life	Actuations	10000/25000	
Safety			
Clearances	Open contacts	2× >2 mm	
	Between the poles	>7 mm	
Creepage distances		>7 mm	
Rated short-circuit making capacity I_{cm}		10 kA	
Rated impulse voltage U_{imp}		>5 kV	
Connections			
Terminals	± Screw (Pozidriv)	PZ1	
	Max. tightening torque	0.8 ... 1.0 Nm	
Ambient conditions			
Permissible ambient temperature		–5 ... +40 °C	
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	45 °C	

Accessories

Auxiliary switches (AS)



- For right-hand-side retrofitting with factory-fitted brackets

Contacts	Type	Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016

Handle locking device



- To prevent undesired mechanical On/Off switching
- Sealable
- For padlock with max. 3 mm shackle

Article No.
5ST3801

Terminal cover



- For covering screw openings
- Sealable

Article No.
5ST3800

Spacer



- Contour for modular devices with a mounting depth of 70 mm
- Can be snapped onto either side of the busbar for convenient cable routing
- Spacer is recommended for better heat dissipation

Article No.
5TG8240