STS100/STS300 25-3000 A Static Transfer Switches



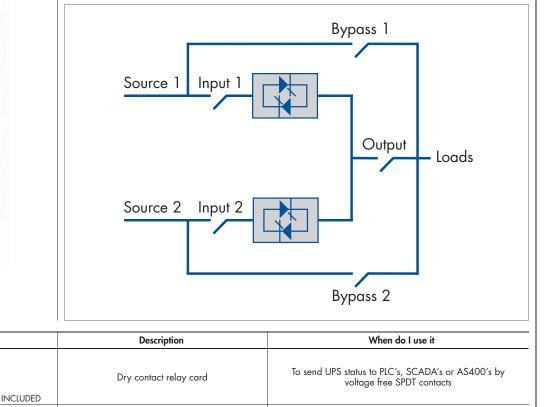
Features and benefits

- Continuous monitoring of voltage and frequency and automatic instant (<4ms) transfers for secure power switching without cross connection between sources.
- Short circuit transfer inhibit for robust load protection.
- SCR fault detection and backfeed protection for maximum upstream safety.
- Dual manual bypass for complete source independence during maintenance.
- True oversized neutral (2x In) redundant cooling with monitored fans and redundant (3x3) internal power supply in all system control boards for top product reliability in high availability applications.
- Full front access for easy maintenance.
- Bottom and top cable entry for maximum installation versatility.
- Comprehensive set of communication options for total remote monitoring of equipment operation.
- Fully compliance with all international product standards for maximum quality guarantee.

STS block diagram

Main options

- Isolation transformer.
- Plug-in breakers.
- Output distribution panels.
- Panel builder version.
- Additional SPDT contact relay board.
- 2-pole configuration (STS 100) or 4 pole configuration (STS 300).
- Operation without neutral (STS300).



RS485 ModBus-RTU port

To send UPS status to BMS's by RS485 connection and ModBus-RTU protocol. For telemonitoring and teleservice

	25 50	80	100	100	250	400	630	800
	STS100					STS300		
Dimensions WxHxD (mm)	820x835x1475 (cust	om layout on re	quest)	8	320x835x1475	5	1220x8	60x1900
Weight (kg)	150 190	220	265	265	290	305	615	660
put								
Connection type	Hardwired 2w Hardwired 4w							
Nominal voltage	110/115/120/220/230/240/277 Vac 1-phase 208/380/400/415/440/480 Vac 3-phase with neutral						neutral	
Voltage tolerance		:	±10% (up to ±2	20% on request)				
Frequency and range		50/60	Hz, ±2 Hz (up	o to ±4 Hz on re	equest)			
Source harmonic voltage content	unlimited (>20% THD transfer time ≤10ms)							
Transfer phase angle			5° ÷	30°				
utput								
Connection type	Hardwired 2w					Hardwired 4w		
Nominal voltage	110/115/120/220/230/240/277 Vac 1-phase			208/	380/400/415	/440/480 Vac	3-phase with	neutral
Frequency			. 50/6	0 Hz				
Transfer time			≤4	ms				
Transfer mode		Break	before make, t	ansfer inhibit o	n fault			
Load power factor			1 to					
Maximum crest factor			3					
THD current fedback								
from load			unlin	nited				
Overload capacity	125% for 30 mi	in, 150% for 10	min, 200% fo	30 s, 2000%	for 1 cycle, 400	00% for ½ cycle		
Rendimento (AC/AC)			>9	9%				
onnectivity and function extensior	15							
Front panel	Mimic LED pane	l and keyboard		Graphical LCD display, mimic LED panel and keyboard				board
Remote communication	Included: dry contact relay card. Optional: RS232 or RS485 serial port, additional dry contact relay board		Included: Dry contact relay card, RS232 and RS485 serial ports, ModBus-RTU protocol. Optional: additional dry contact relay card				erial ports,	
Optional function extensions	2-poles configuration; plug-in circuit breakers, operation without neutral, panel builder execution,output distribution panels, isolation transformer			4-poles configuration, plug-in circuit breakers, operation without neutral, panel builder execution, output distribution panels, isolation transformer				
ystem								
Protection degree			IP 20 (oth	er options)				
Colour	RAL 7035 (other options)							
Installation layout		Wall, back to		by side installe	ation allowed			
Accessibility				and top cable				
Other ratings on request								
Other features								
nvironmental								
vironmental Operating temperature range				0°C ÷ +40°C				
Avironmental Operating temperature range Storage temperature range Altitude (AMSL)		: 1000 m witho		-10°C ÷ +70°C		0.5% per 100 m	1	
ovironmental Operating temperature range Storage temperature range		: 1000 m withou		-10°C ÷ +70°C		0.5% per 100 m	1	
vironmental Operating temperature range Storage temperature range Altitude (AMSL) Audible noise at 1 m (dBA)		< 1000 m witho		-10°C ÷ +70°C tion, > 1000 wi		0.5% per 100 m	1	
Altitude (AMSL)			ut power reduc	-10°C ÷ +70°C tion, > 1000 wi	th reduction of		1	
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