Tescom®

INDUSTRY MEDICAL DATA CENTER TRANSPORT MALLS & FACILITIES

3 phase out, 4 poles static transfer switch

STS 4000

Very Fast Uninterrupted Transfer

Advanced Communication

Microprocessor Control

TOWER

SERVICE / TECH. SUPPORT

ECO FRIENDLY

STS 4000 3 phase, 4 pole static transfer switch transfers uninterruptedly critical loads to either of two independent AC power lines. The system monitors two AC inputs. If any of them goes out of the specified tolerance, it transfers the critical load to the other. By increasing the energy quality of the systems used with STS 4000, while reducing the effects of interference and short interruptions, a backup power system is gained.

GENERAL SPECIFICATIONS

- Full digital control with microprocessor controlled structure
- 2 AC inputs with 3 phase and neutral switching
- Easy installation and maintanance
- Compact design
- Wide input voltage range
- "Break Before Make" type transfer
- Very fast uninterrupted transfer even in case of any failure (≤4ms- for sencronised sources)
- Selectable preffered source
- Fuse-free construction with a robust, high reliability SCR
- Digitally controlled system set points
- Programmable synchronized and unsynchronized transfers
- Isolation protection between sources with switched neutral
- Convenient and multifunctional front panel and diagnostic codes
- Transfer inhibit system over a certain current value
- Overload, over temperature and short circuit protections
- Convenience during maintenance and repair with Isolated Maintenance Bypass
- Remote monitoring of energy resources
- TCP / IP, SNMP, MODBUS and RS232 infrastructure for communication
- Dry-contact interface
- Internal cooling fans
- Optional external AC power supply socket outlet
- Optional SNMP adaptor

TECHNICAL SPECIFICATIONS

MODEL	STS4050	STS4100	STS4150	STS4200	STS4250	STS4300	STS4400	STS4600	STS4800
Nominal current	50 A	100 A	150 A	200 A	250 A	300 A	400 A	600 A	800 A
ELECTRICAL DATA									
Input voltage (Ph-Ph)	380/400/415 VAC 3P + N + G								
Input voltage tolerance	180-264 VAC (PH-N)								
Input frequency	50Hz / 60Hz								
Input frequency range	48-65Hz (upper and lower limits adjustable)								
Efficiency (at full load)	> 99%								
Input voltage THD	< 10%								
Transfer type	'Break before make''								
Transfer methods available	Automatic / Manual / Remote								
Transfer control	synchron								
	with adjustable delay (non synchron)								
	zero current (non synchron)								
Transfer time	< 4 msn for synchronous sources								
	< 10 msn for non-synchronous sources								
Switching type	3 phase + Neutral switching								
Output current crest factor	3:1								
Admissible overload	0% - 100% continuous								
	101% - 150% 1 min.								
	151% - 200% 10 seconds								
	> 200% 250 msec								
Protections	Output overload and short circuit protection, Overtemperature protection, Backfeed protection, SCR fault protection								
LCD panel and mimic	Standard								
Communication	RS232 standard, RS485 optional, SNMP optional								
TCP/IP connection	Optional								
Dry contacts	4 programmable relay outputs								
Two serial ports	Optional								
Temperature sensor	Standard for internal cabinet temperature								
ENVIRONMENTAL DATA									
Cooling	Forced cooling (redundant fans)								
Operating temperature	0°C - 40°C								
Storage temperature	-10°C up to +50°C								
Relative humidity	90% max. (non condensing)								
Protection degree	IP20								
Standards	EN62310-1, EN62310-2								
Acoustic noise	< 52 dBA			< 55 dBA				< 60 dBA	
MECHANICAL DATA									
Weight (kg)	160	175	190	205	235	240	255	375	560
Dimensions (mm) HxWxD	1500x680x540			1770x680x585				1905x915x725	1900x1250x850