

STS-GER Static Transfer Switch

50A – 100A – 150A – 200A – 300A – 400A – 500A - 600A



Static Transfer Switch STS 3 kVA – 4000 kVA

General Specifications of GERMAREL Static Transfer Switch:

- Password protected menu structure which whole applications can be made from it
- Temporary protection for input and output sources in an overload situation
- By means of DSP control technology, short reply time and diagnostics
- Advanced communication options for remote control and monitor
- Uninterruptable transfer between two Independent sources
- Ability to change the damaged source On load
- Synchronous/asynchronous transfers ability
- Language selection on the LCD panel
- Totally DSP controlled technology
- 3 phase 3 pole or 4 pole cutting
- Automatic and manual transfer
- Source priority selection
- High efficiency
- Audible Alarm



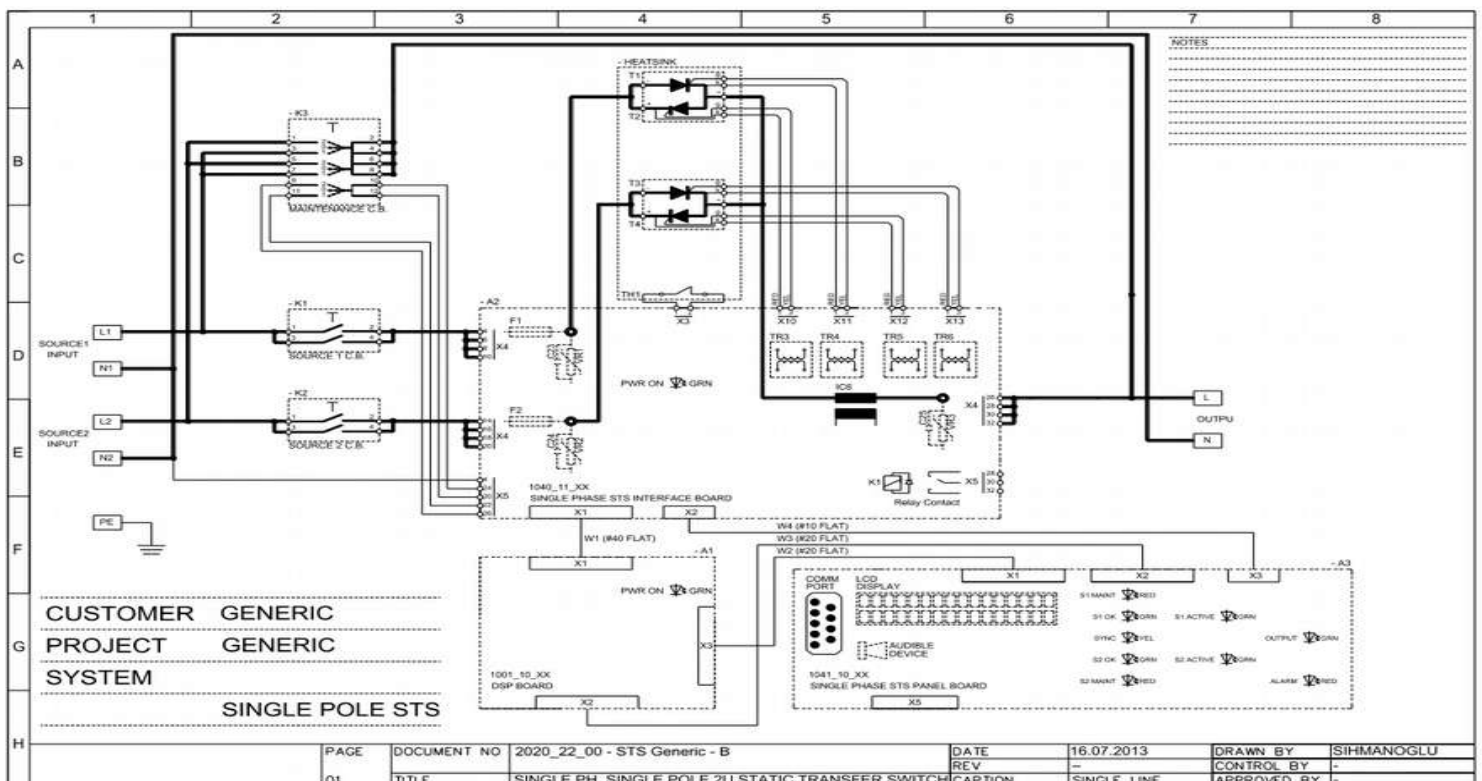
Static Transfer Switch STS Outer View



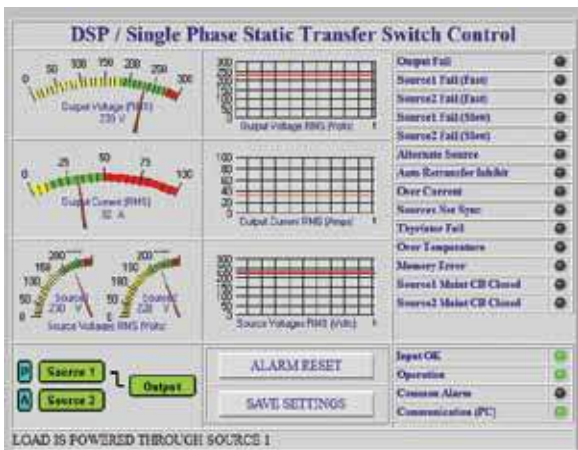
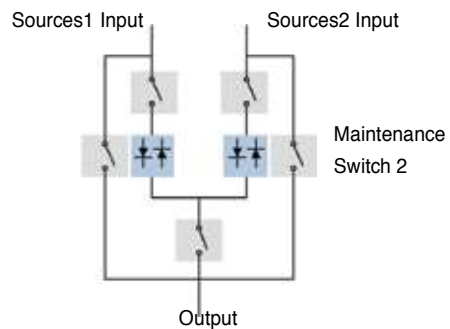
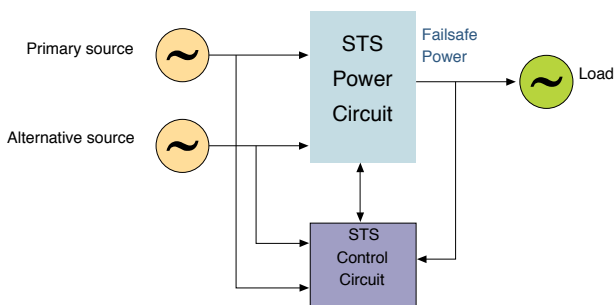
Static Transfer Switch STS Internal View

Technical Advantages of STS-GER

- ▶ Uninterruptable transfer between two Independent sources
- ▶ 3 phase 3 pole or 4 pole cutting
- ▶ Totally DSP controlled technology
- ▶ Synchronous/asynchronous transfers ability
- ▶ Source priority selection
- ▶ Temporary protection for input and output sources in an overload situation
- ▶ Automatic and manual transfer
- ▶ Ability to change the damaged source On load
- ▶ By means of DSP control technology, short reply time and diagnostics
- ▶ Password protected menu structure which whole applications can be made from it
- ▶ Advanced communication options for remote control and monitor
- ▶ Language selection on the LCD panel
- ▶ Audible Alarm
- ▶ High efficiency



Technical Advantages of STS-GER



Communication Interface



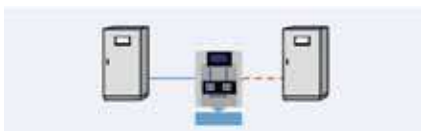
STS 50-150

STS 200-400

STS 500-600

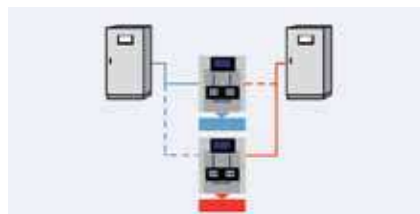
Technical Advantages of STS-GER

MODEL		STS 3050	STS 3100	STS 3150	STS 3200	STS 3300	STS 3400	STS 3500	STS 3600	
RATED CURRENT (A)		50	100	150	200	300	400	500	600	
INPUT	Nominal Voltage-sources	380-400-415 Vac three-phase with neutral								
	Voltage tolerance	180/264 Vac (adjustable)								
	Switched input phases	3(3-pole) - 3+N(4-pole) (optional)								
	Nominal frequency	50 or 60 Hz								
	Input frequency tolerance range	(+ or -) 10 % (adjustable)								
	Distribution compatibility	IT, TT, TNS, TNC								
OPERATING FEATURES	Transfer type	"Break Before Make" (no overlapping sources)								
	Available transfer methods	Automatic/Manual/Remote								
	Transfer time for source failure	< 1/4 cycle (5.0ms @ 50Hz, 4.1ms @ 60Hz) (S1/S2 synchronised and adjustable) 10 msec (S1/S2 NON synchronised)								
ENVIRONMENTAL	Efficiency at full load (%)	> 99 %								
	Noise level at 1 m from front (dba) (from 0 to full load)-(dba)	55	55	55	65	65	65	65	65	
	Storage temperature	20°C up to 70°C								
	Ambient temperature	(-5°C) - (50°C)								
	Relative humidity	95% non-condensing								
	Max installation height	1000m at rated power (-1% power for every 100m above 1000m)-Max 4000m								
	Reference Standards	EN 62310-1 (safety) EN 62310-2 (electro-magnetic compatibility)								
	Weight (kg)	100	110	120	140	250	290	350	400	
	Dimension (wdh) (mm) (3 pole)	450*500*1000			600*600*1200			700*1000*1600		
	Colour	RAL7035, other colours are optional								
	Protection level	IP20 up to IP54								
ADDITIONAL FEATURES	Cabinet	On Cabinet Maintenance Switch								
	Communication	Modbus Communication over RS232 Line (RS485 Optional)								
	Time- Date	Log Records up to 200 logs with Real Time Clock Calendar								
	Led Indicators	(Source1 Good, Source2 Good, Source1 On, Source2 On, Output OK, Common Alarm, Source1 Maint, Source2 Maint, Synchronisation Bad)								
	Power Supplies	Redundant Internal Power Supplies								
	Alarm	Audible Alarm								
	Current Function	Load High Current Inhibit Function, which inhibits emergency transfer in case of very high currents like short circuits								
	5 Dry Contact Relay Outputs	(1 for common alarm, 4 programmable)								



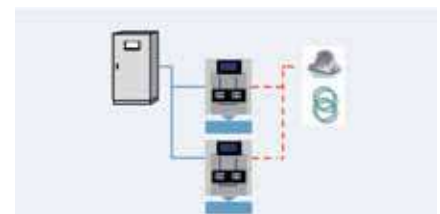
STS in Redundant Mode

The alternate source [AS], although highly reliable, only powers the load power in the event of a failure with the preferred source [PS], ensuring maximum redundancy and power quality to the loads.



STS in Cross Feeding Mode

The two sources power critical loads using STS configured to selected one of the two power sources as the preferred source (PS). In case of a failure in one of two sources, the other will be able to supply power to all the loads connected to the system).



STS in Back-Up Mode

STS power utilities via the preferred energy source [PS] the alternate energy source [AS] is made up of independent, separate power sources and to make up for any faults in the preferred power source.

NOTE: All specifications subject to change without notice. Consult Technical Support Department for special applications. All names used above are registered trademarks of their respective owners.