ELTEK VALERE
always on

STATIC BYPASS SWITCH
STS207 HV

In: 2 x 230VAC

Out: 230VAC (7.0kVA)

KEY FEATURES

- **1/4 x 19“, 2U**
- **“Hot plug-in“ design with backplane connection**
- **Optimized synchronization speed with digital PLL**
- **CAN-Bus interface**
- **Display for all main operating parameters, settings and measuring values**
- **Front-to-rear airflow with temperature-controlled fan cooling**
- **SNMP interface and monitoring by WEB-Browser included**

APPLICATIONS

Static bypass switch for AC power supplies in all areas of industry, power generation and power distribution.

PRODUCT DESCRIPTION

The new static switch of the series STS207 is a compact electronic switch. The digital PLL guarantees minimized synchronization time of inverter and mains frequency. Due to the high synchronization speed the unit can also be used together with diesel gensets as bypass mains supply. The transfer time between the two inputs is less than 4ms. Therefore the use within an IT environment is possible.

The STS monitors both incoming sources according to the voltage level, frequency and their synchronization. In combination with the inverter series INV222 the unit can operate in offline or online mode. This function is programmable at site. All main functional parameters and measuring values are displayed on the front side LCD panel. For highest reliability the internal circuits are supplied in redundancy by the bypass mains as well as the battery circuit of the AC system.
For communication between STS and inverter a CAN-Bus communication is used. The unit has an Ethernet interface for remote connection via SNMP protocol or WEB-Browser.

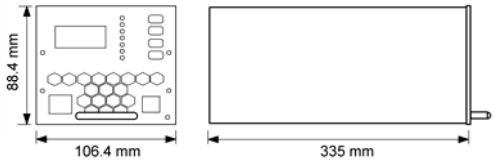
TECHNICAL DATA

Type	STS207-230/230HV
Article code	601-070-715.00
Nominal input voltage-Source 1	230VAC ±20%
Nominal input voltage-Source 2	230VAC ±20%
Redundant circuitry supply	91.8- 275VDC (HV-version)
Input frequency range	50/60Hz
Synchronization range	±2Hz
Efficiency	≥ 99%
Mains input fuse	63A semiconductor protection
External mains fuse	Recommended; 32A gL or MCB characteristic B
Nominal output voltage	230VAC; voltage range acc. to input values; switch over threshold ±5 to ±20% programmable
Nominal output current	30.4AAC
Nominal switching capacity	7.0kVA
Overload capability	1000% for 10ms (fuse tripping of 32 A gL is guaranteed)
Output frequency	acc. to the input frequency
Transfer time	≤ 4ms
LED signalling	Operation (green), Inverter OK (green), Mains OK (green), Load on Inverter (green), Load on Mains (green), Synchronization (green), Alarm (red)
Main processor	16Bit Fujitsu
Monitoring functions	Voltage/frequency of sources 1 and 2; synchronization mains-inverter; over temperature; CAN communication lost; synchronization bus interrupted
Configuration	Via front side operating buttons UP/DOWN/ENTER/ESC and LCD (4x16 characters); via SNMP and HTTP
Fault signalization	Text message on LCD; alarm relay output
Communications interface	CAN-Bus, proprietary protocol; redundant synchronization bus; Ethernet 10Base-T
Ambient temperature	Operation: -20°C to +55°C; storage: -40°C to +85°C
Cooling	Fan cooling (temperature-regulated; monitored)
Climate conditions	according to IEC 721-3-3 class 3K3/3Z1/3B1/3C2/3S2/3M2
Max. installation altitude	≤ 1500m
Audible noise	<45dBA
Type of construction	1/4 x 19“, 2U
Dimensions (W/H/D)	106.4/88.4/335mm
Weight	approx. 2.2kg
Type of enclosure / Protection class	IP20 (front panel) / 1
Colour (front panel)	RAL 7035, black imprint
CE conformity	yes
Compliance to safety standards	EN60950-1; VDE0100 T410; VDE0110; EN50178; EN60146
Compliance to EMC standards	EN55011/22 class “B“; EN61000-4 T2-5
Connections	Rear: AC inputs/output, DC input and signalization (DIN41612-M-connector); Front: Ethernet (RJ45), CAN (RJ11)

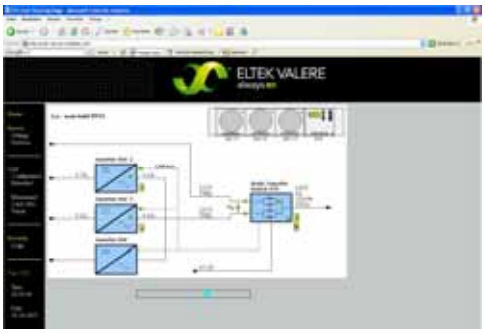
OPTIONS

Article code / Designation	View
502-222-315.HV Assembly set 19“ sub rack 2U incl. backplane for 3pcs. inverters INV222 and 1pcs. STS207-HV	

DIMENSIONS



Monitoring with WEB-Browser included



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