



Illustrative photo

General Features

- Full microprocessor control, compact design
- High efficiency, very high MTFB
- Short switching time
- Input / Output RFI meet international standards
- Complete supervision possibility
- On-Line / Off-Line configuration while system running
- Large synchronization range
- Alphanumeric display

Application

- Telecom and Industrial applications

Description

The STM 150 static switch has been developed to work with RDI parallel inverter modules, used in Telecom and Industrial applications. It allows secondary source backup in case of primary source problem.

Off-Line and On-Line mode can be configured in the menu, even if the system is running.

Thanks to the full microprocessor control and intelligent management during load transfer, the reliability is highly improved. All the functional information is available both locally and remotely with the SYS3000 controller and the PSM2000 software or via Ethernet with DVV RB-01.

Technical data

Model	STM 150 – 120 VAC	STM 150 – 230 VAC
Input specifications	120 VAC	230 VAC
Operating voltage range (selectable for STM 150)	95 ÷ 150 Vrms	180 ÷ 275 Vrms
Input frequency range (selectable)	47,5 ÷ 52,5 Hz or 57,5 ÷ 62,5 Hz	
Maximum permanent current	120 VAC	230 VAC
Maximum permanent current	150 A with self-ventilated 180 A with Fan cooling	
Transfer performance	120 VAC	230 VAC
Maximum voltage interruption	60 µs – 5 ms (typical: 2 ms)	
Total transient voltage duration (max)	60 µs – 10 ms (typical: 3 ms)	
Efficiency	120 VAC	230 VAC
Efficiency at full load	>99%	
Voltage conformity (rms)	120 VAC	230 VAC
Maximum mains, adjustable	125 ÷ 150 V	250 ÷ 275 V
Minimum mains, adjustable	95 ÷ 110 V	180 ÷ 210 V
Minimum inverters, adjustable	95 ÷ 110 V	180 ÷ 210 V
Maximum inverters, adjustable	125 ÷ 150 V	250 ÷ 275 V
Load level to come back after overload	75 ... 95% (with RDI modules)	
EMC	120 VAC	230 VAC
Standards applied for immunity	EN 61000- 4-2 / 4-3 / 4-4 / 4-5 / 4-6	
Standards applied for emission	FCC Part 15 class A, CISPR 22 class B	
Temperature	120 VAC	230 VAC
Storage temperature	- 40°C ÷ + 80°C	
Permissible ambient temperature	- 20°C ÷ + 50°C	
MTBF	120 VAC	230 VAC
MTBF	>400 000 h	
Supervision	120 VAC	230 VAC
Supervision possibility	With SYS 3000 controller, DVV RB-01	
Signalling and measurement	120 VAC	230 VAC
Signaling and measurement	LCD display (2 lines x 16 characters) + 3 LEDs 5 free potential contacts	
Safety	120 VAC	230 VAC
Safety	EN 60950 / UL 1950 / UL 1778 (Rack)	
Dimensions and weight	120 VAC	230 VAC
Dimensions (wdh)	438 x 348 x 3U mm	
Weight	9 kg	