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ISO 9001 CERTIFIED ORGANIZATION



Certificate No. 13590

Master Switch

Static Transfer Switch (STS)



- **Fast transfer between power sources**
- **Full microprocessor control**
- **Redundant power circuits**
- **Redundant cooling**
- **Source supply prioritisation**
- **Selectable voltage limits**
- **Short circuit protection**
- **Easy to install and operate**
- **LCD display and mimic panel**
- **Manual bypass switches**
- **Remote communications and control**
- **User friendly control panel**

The Master Switch is a static transfer switch commonly used within power continuity applications to improve resilience. The system can be used in conjunction with UPS equipment or with separate standalone devices.

A static transfer switch adds a source of redundancy to a critical installation and automatically transfers the connected load between two separate AC power sources. The transfer can be automatic (if one AC source fails) or can be manually forced using the front panel keypad.

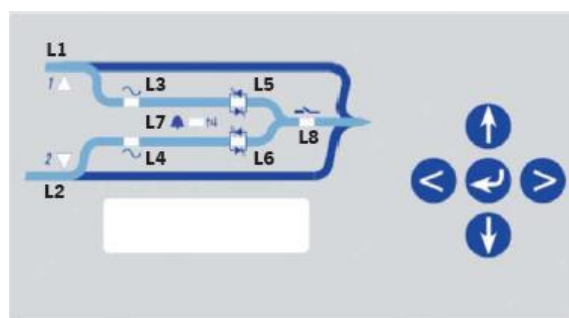
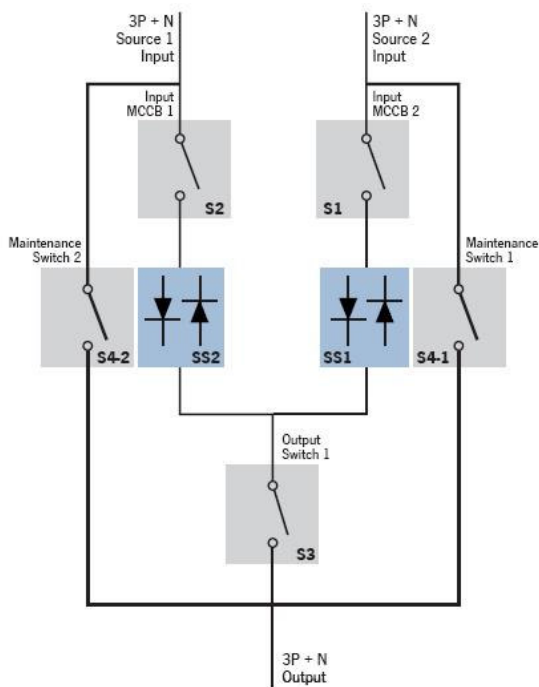
Specifications

Models	MTS 100-X	MTS 150-X	MTS 200-X	MTS 250-X	MTS 300-X	MTS 400-X
Nominal Current	100	150	200	250	300	400

Input	
Nominal Voltage	382-400-415 Vac 3-phases with neutral
Input Voltage Tolerance	180-264Vac (selectable)
Switched Input Phases	3+N (4-pole) – 3 (3 pole)
Nominal Frequency	50/60Hz
Input Frequency Tolerance	+ / - 10% (selectable)
Distribution Compatibility	IT, TT TNS, TNC

Operating Features	
Transfer Typology	“Break Before Make” (no sources overlapping)
Available Transfer Modes	Automatic / Manual / Remote
Transfer time for source failure	< 4msec (S1/S2 synchronised) 10msec (S1/S2 not synchronised)

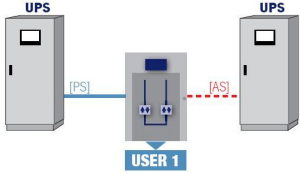
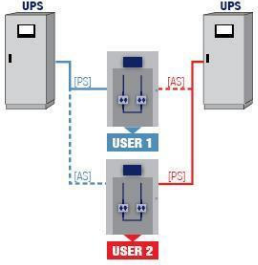
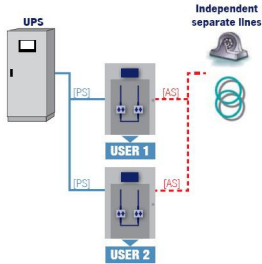
Environmental	
Efficiency @ full load	>99%
Noise level (from 0 – full load)	52dBA @ 1m from front 55dBA @ 1m from front
Storage temperature range	-10 °C to +50 °C
Ambeint temperature	0 °C ÷ +40 °C
Relative humidity	90% non-condensing
Max. installation height	1000m @rated power (-1% power for every 100m above 1000m) – Max 4000m
Standard compatibility	EN 62310-1 (safety) EN 62310 – 2 (electromagnetic compatibility)
Dimensions (h x w x d) (mm)	1500 x 685 x 530 1770 x 685 x 580
Weight	155 175 205 210 220 240
Colour	Light grey RAL 7035
Index of protection	IP 20



LED	FUNCTION
L1	S1 Priority source
L2	S2 Priority source
L3	S1 Present
L4	S2 Present
L5	Static switch SS1 closed
L6	Static switch SS2 closed
L7	Alarm indicator
L8	Output selection ON/OFF

5 function keys and LCD operations

Typical Application

	<p>Redundant Mode</p> <p>The reliable secondary source (AS) will power the load only and exclusively when the primary source (PS) fails, so as to guarantee maximum redundancy and quality of the power supply to the loads.</p>
	<p>Cross-Feeding Mode</p> <p>The two sources power a number of critical loads using the Master Switches configured in such a way as to make one of the two power sources the priority source (PS). In the case of a power fault or failure on one of the two sources, the other source will be able to supply power to all the loads connected to the system.</p>
	<p>Back-Up Mode</p> <p>Powers a number of loads using the priority source (PS). The secondary source (AS) is formed by independent and separate sources which can supply standby power should the priority source (PS) fail.</p>