

Master Switch STS

SINGLE-PHASE



DATACENTER



E-MEDICAL



INDUSTRY



TRANSPORT



Plug & Play
installation

1:1 32-63-120 A
Static Transfer Switch



HIGHLIGHTS

- **Operating flexibility**
- **Load protection**
- **Complete diagnostics**
- **Hot Swap function**

Master Switch Single-phase (MMS) is part of the Master Switch range and offers solutions suitable for protecting single-phase loads with different power ratings. MMS is available in three sizes: 32, 63 and 120 A and is therefore able to satisfy various requirements for the protection of single-phase loads.

FLEXIBILITY OF USE

All MMS versions are designed with criteria that facilitate on-site installation as well as diagnostics, control and maintenance operations. All models are equipped with a manual bypass and the hot swap function allows for rapid corrective interventions by non-specialised personnel in the event of faults.

LOAD PROTECTION

With MMS transfer switch loads are protected against critical environmental situations and mains power interference. Microprocessor control and the use of thyristor static switches ensure continuous monitoring of the power supply sources and reduced switching times between the two sources in the event of a fault. The constant monitoring

of the output current allows for the rapid identification of any short circuit currents in the consumers, preventing short circuits from propagating to other loads. MMS is equipped with thermal-magnetic protection for the two sources, ensuring rapid intervention in the event of faults and integrated backfeed protection. MMS ensures switching times between the two power sources of less than a quarter of a cycle, both in the event of manual switching and in the event of automatic switching triggered by a fault in the power source.

COMPLETE DIAGNOSTICS

All MMS versions are equipped with 32-character LCD displays and control panels with multi-function keys. This allows for rapid and intuitive monitoring of supply readings, switch status and environmental conditions. MMS is equipped with three standard programmable dry contacts, an input for emergency shutdown, a RS232 serial connection and a slot for housing the expansion board, thus ensuring complete availability of interface solutions for remote control and monitoring.

OPTIONS

SOFTWARE

PowerShield³

ACCESSORIES

NETMAN 208

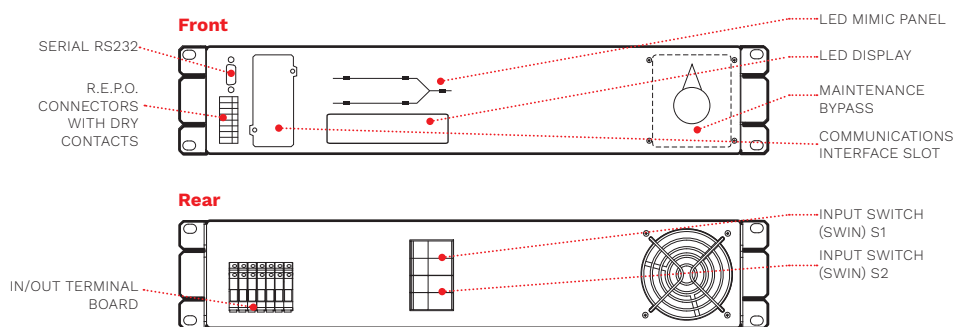
MULTICOM 302

MULTICOM 352

MULTICOM 411

MULTICOM 421

DETAILS



HOT SWAP REPLACEMENT



Carry out manual bypass operation on faulty unit selecting S1 or S2



Remove the screws placed on left/right side and extract the unit



Replace the faulty unit with a new one



Fix the parts, follows start up procedure and return back from manual bypass

All operations are carefully described on operating manual.

MODELS	MMS 32	MMS 63	MMS 120
OPERATING SPECIFICATIONS			
Nominal Current [A]	32	63	120
Transfer type	"Break Before Make" (no overlapping sources)		
Available transfer methods	Automatic / Manual / Remote		
Transfer time [ms]	<4 (S1/S2 synchronised) - <10 (S1/S2 non synchronised)		
Replacement	Hot Swap		
INPUT			
Rated voltage - sources S1/S2 [V]	220 / 230 / 240 single-phase + N		
Voltage tolerance [V]	180-264 (selectable)		
Switched input phases	Ph+N (two poles)		
Rated frequency [Hz]	50 / 60		
Input frequency tolerance range	±10% (selectable)		
Distribution compatibility IT, TT, TNS, TNC	IT, TT, TNS, TNC		
OVERALL SPECIFICATIONS			
Weight [kg]	10	12	20
Dimensions (WxDxH) [mm]	19"x520x2U		19"x520x3U
Communications	RS232 / Slot for communication interface / Relay contacts port		
Ambient temperature	0 °C - +40 °C		
Range of relative humidity	5-95% non-condensing		
Colour	RAL 7016		
Noise level at 1 m [dBA ±2]	<40		
IP rating	IP20		
Efficiency @ full load	>99%		
Standards	EN 62310-1 (safety) EN 62310-2 (electro-magnetic compatibility)		