

Master FC400





ONLIN





Servic

3:3 30-125 kVA



HIGHLIGHTS

- Frequency Converter: 50/60 Hz to 400 Hz
- Output voltage:208 V 3 ph+N
- Galvanic isolation
- For naval, military and airport applications
- Battery backup on request

Master FC400 series static Frequency Converters are available from 30 to 125 kVA, with 50 or 60 Hz input and 400 Hz output. The result of extensive experience acquired in the UPS industry, the Master FC400 series is distinguished by the use of technologically advanced components and for excellent reliability, ease of maintenance and ease of operation. The Master FC400 series uses double conversion technology (VFI SS 111 voltage and frequency independent compliant with IEC EN 62040-3), with an integrated output transformer to ensure the galvanic isolation of the load from mains disturbances under all conditions. The output voltage is 208 V threephase (adjustable 200-215 V). Thanks to high frequency IGBT technology and

digital control, Master FC400 Frequency Converters are ideal for airport, military and marine applications.

MINIMUM IMPACT ON MAINS - EASY SOURCE

The Master FC400 has been designed to minimise the impact on the mains or on the generator located upstream, thanks to the low harmonic content at the input and the progressive start of the rectifier.

These features make the Master FC400 Frequency Converters especially compatible with generators.

EASY INSTALLATION AND MAINTENANCE

The Master FC400 requires a small space for installation (only 0.64 m² for a 125 kVA model). The main assemblies of the UPS

can be easily accessed for maintenance, via the removable front panel. Fans located in the top of the UPS cabinet, eliminate the need for side or rear access and allow the UPS to be placed against a wall.

APPLICATIONS

Master FC400 provides additional protection for a wide range of applications, including:

- Powering airplanes in airports
- · Radar and flight-control systems
- · Naval applications
- · Military applications
- · Power for test benches.

BATTERY BACK-UP

MFC is also available as UPS with battery back-up on request.

OPTIONS

SOFTWARE & ACCESSORIES

See Master MPS

PRODUCT ACCESSORIES

Isolation transformer

IP rating IP21, IP31/IP42 on request

Parallel kit

12 pulse rectifier version (D)

5th or 11th harmonic filter (HC)

Top Cable Entry cabinet

DIMENSIONS

MFC 30

MFC 30HC



MFC 60 - MFC 80 MFC 100 - MFC 125



MFC 60HC - MFC 80HC - MFC 100HC MFC 60D - MFC 80D - MFC 100D MFC 60DHC - MFC 80DHC MFC 100DHC



MFC 125HC - MFC 125D MFC 125DHC



MODELS	MFC 30	MFC 60	MFC 80	MFC 100	MFC 125
INPUT					
Rated voltage [V]	380 / 400 / 415 three-phase				
Voltage tolerance [V]	400 ±20% @ full load¹				
Frequency [Hz]	45 - 65				
Current distortion	<5% (HC Version)				
Soft start	0 - 100% in 120 s (selectable)				
OUTPUT					
Nominal power [kVA]	30	60	80	100	125
Active power [kW]	24	48	64	80	100
Number of phases	3 + N				
Rated voltage [V]	2081 three-phase + N				
Static stability	±1%				
Dynamic stability	±5%				
Voltage distortion	<3% with linear load / <4% with non-linear load				
Frequency [Hz]	400				
Crest factor [lpeack/lrms]	3:1				
Overload	110% for 60 min; 125% for 10 min; 150% for 1 min				
OVERALL SPECIFICATIONS					
Weight [kg]	265	450	535	540	560
Dimensions (WxDxH) [mm]	555x740x1400 800x800x1900				
Remote signals	1x opto insulated Input and 3x relays Outputs				
Auxiliary signals	R.E.P.O External output switch				
Communications	Status LEDs - Graphic display - 2 slots for communications interface - 2x RS232				
Ambient temperature for the UPS	0 °C - +40 °C (50 °C @ 75% load)				
Recommended temp. for battery life	+20 °C - +25 °C				
Range of relative humidity	5-95% non-condensing				
Colour	RAL 7035				
Noise level at 1 m [dBA ±2] ECO Mode	62 - 68				
IP rating	IP20				
Standards	European directives: LV 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; RoHS complia				

Moving the UPS ¹ For wider tolerance conditions apply.











Classification in accordance with IEC 62040-3 (Voltage frequency Independent) VFI - SS - 111

Pallet jack