



Master FC400









3:3 30-125 kVA







HIGHLIGHTS

- Frequency converter 50/400 Hz
- Output voltage: 208 V - 3F
- Galvanic isolation
- Applications: airport, military and naval
- Battery backup

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 FC 400 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

The output voltage is 208 Vac three-phase

(adjustable 200-215 Vac). Thanks to high frequency IGBT technology and digital control, Master FC400 frequency converters are ideal for airport, military and naval applications.

Minimum impact on mains - easy

The Master FC400 was designed to reduce to a minimum the impact on the mains or generator located upstream, thanks to the low harmonic content input and the progressive start of the rectifier. These features make the Master FC400 frequency converters especially compatible with generators.

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.

DIMENSIONS

MFC 30 MFC

1400





MFC 60 D - MFC 80 D MFC 100 D



MFC 125 D

OPTIONS

SOFTWARE & ACCESSORIES

See Master MPS (page 88)

PRODUCT ACCESSORIES

Input isolation transformer

IP rating IP31/IP42

1900

Parallel configuration kit (Closed Loop)

12 pulse version (D)

Filtering of 5th and 11th harmonics (HC)

Top Cable Entry cabinets

Digital I/O and Generator interface

| MODELS | MFC 30 | MFC 60 | MFC 80 | MFC 100 | MFC 125 |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------|--------|---------|---------|
| INPUT | | | | ' | |
| Nominal voltage | 380 - 400 - 415 Vac three-phase | | | | |
| Voltage tolerance | 400 V ± 20% | | | | |
| Frequency | 45 - 65 Hz | | | | |
| Current distortion | < 5% C (HC Version) | | | | |
| Soft start | 0 - 100% in 120" configurable | | | | |
| OUTPUT | | | | | |
| Nominal power (kVA) | 30 | 60 | 80 | 100 | 125 |
| Active power (kW) | 24 | 48 | 64 | 80 | 100 |
| Nominal voltage | 208 Vac three-phase + N | | | | |
| Static stability | ± 1% | | | | |
| Dynamic stability | ± 5% | | | | |
| Voltage distortion | < 3% with linear load / < 4% with non-linear load | | | | |
| Frequency | 400 Hz | | | | |
| Crest factor | 3:1 lpeack/lrms | | | | |
| Overload | 110% for 60 minutes; 125% for 10 minutes; 150% for 1 minute | | | | |
| INFO FOR INSTALLATION | | | | | |
| Weight (kg) | 330 | 480 | 500 | 530 | 590 |
| Dimensions (WxDxH) (mm) | 555 x 740 x 1400 800 x 800 x 1900 | | | | |
| Remote signals | dry contacts | | | | |
| Remote controls | ESD and ON/OFF | | | | |
| Communications | Double RS232 + dry contacts + 2 slots for communications interface | | | | |
| Operating temperature | 0°C / +40°C (50°C @ 75% load) | | | | |
| Relative humidity | <95% non-condensing | | | | |
| Colour | Light grey RAL 7035 | | | | |
| Noise level at 1 m (ECO Mode) | 62 dBA | 65 dBA | 68 dBA | 70 dBA | 72 dBA |
| IP rating | IP20 (others on request) | | | | |
| Efficiency | up to 92% | | | | |
| Standards | Directives LV 2014/35/EU - 2014/30/EU; Safety IEC EN 62040-1; EMC IEC EN 62040-2; Performance IEC EN 62040-3 | | | | |
| Classification in accordance with IEC 62040-3 | (Voltage Frequency Independent) VFI - SS - 111 | | | | |
| Moving the UPS | Pallet Jack | | | | |

