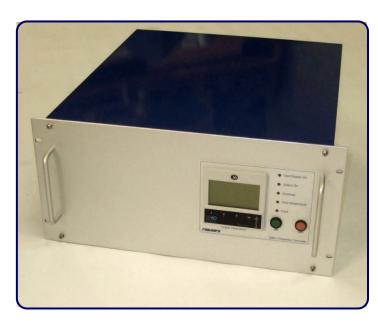
19" Rack Mount 400Hz Static Frequency & Phase Converters: 1 phase to 3 phase



- Models from 1.5 to 4KVA
- Single-Phase Input, 3-Phase Output
- Power factor corrected input (PFC)
- Sinusoidal, Isolated Output
- Comprehensive Digital Output Display
- Low Acoustic Noise
- 2-Year Warranty
- Military Variants Available
- Def-Stan 61-5(4), Stanag 1008

Cost-Effective, Compact and Dependable:

SFC 3000 series static frequency converters offer the most cost-effective and flexible way of providing an aircraft quality, 400Hz utility supply for 19" rack-mount installations. SFC 3000 series converters only require a single-phase input, but generate a 3-phase, fully aircraft compatible, 400Hz output. This means that they may be used in workshops and development laboratories where only a domestic type single-phase supply is available.

Compact, 19" Rack Mounting:

Extremely compact electronics allows the SFC3000 range to be packaged in 19" rack-mountable chassis. Chassis are 510mm deep, and pre-fitted with fixings for telescopic slides.



The LCD readout provides extensive information

Simplicity in Operation

'Two button' operation means minimal Operator training. No special set-up is required.

.....Yet Sophistication in Display:

An accurate digital readout makes all major parameters available for review - these include output Voltage, Amps, Kw, Kva, Hz and power factor. *SFC 3000* models also have facilities for remote On/Off control and remote status indication (via MODBUS RS485 or volt-free contacts).

Variable Output Voltage and Frequency:

All models may be ordered with continuously variable output voltage and frequency. The output voltage is variable by +/-15% about the nominal, and the frequency +/-5% about the nominal (380-420Hz). Control is via front panel knobs

Applications:

SFC 3000 series machines are suitable for static installations within plant rooms, hangars, workshops and laboratories. They should be installed within a standard 19" cabinet, which should have adequate cooling arrangements (normally forced). SFC 3000 units may be used in continuous duty applications.

High MTBF, Low MTTR:

An oversized rectifier and robust IGBT based inverter offer high reliability, while modular construction and a simple lay-out means that access for maintenance and repair is very straight forward.

Warranty:

All Failsafe equipment is supplied with a 2-year warranty.



SFC 3000 - Technical Specifications

INPUT:

•	Input Voltage	230V, 1ph,	+/- 10% (115V b	y request) (3ph by request)
---	---------------	------------	-----------------	-----------------------------

Input Frequency...... 50, +/- 6% (60Hz by request)

Input Current Harmonics..... IEC 1000-3-4

Input Power Factor......>0.98

Input Protection...... Fuse, rear panel

OUTPUT:

Total Harmonic Distortion.....
<3% linear load

Output Phase Angle Accuracy...... 120 deg. +/- 1%

Permissible Load Power Factor..... -0.6 to 1

Output is galvanically isolated from input. (the output neutral may be bonded to earth).

SECURITY:

• Output Overvoltage Cutout......130V L-N on any one phase

• Thermal Overload...... Thermal sensors located in rectifier, inverter and output transformer.

INTERFACE:

• Optional RS485 or RS422 *MODBUS* high speed communications port allows the output parameters of the converter to be remotely monitored.

ENVIRONMENT & EQUIPMENT:

Ambient Temperature Range.....-10 to 40 deg C

Humidity......

Acoustic Noise.....
50dBA @ 1m

EMC..... Better than EN55-022B

Cabinet...... Zinc plated steel, powder coated

• Front Panel...... 5U x 19", anodised aluminium

Cabinet Protection......IP21

CE marked

DIMENSIONS:

OPTIONS:

- Other input and output voltages and frequencies
- Variable output voltage and frequency
- Remote On/Off and remote status.

Model	3001	3002	3004	6-8KVA
Power	1.5KVA	2.5KVA	4KVA	
Weight Kg	20	26	34	Contact

