

STATIC FREQUENCY CONVERTER 50/60 - 400 HZ 160 - 800 KVA

SPICA 3000 Series Frequency Converters are engineered to minimize the impact on upstream power sources such as mains supplies or generators. This is achieved through a low harmonic input current and a smooth, progressive rectifier start-up, significantly reducing electrical stress. Thanks to these characteristics, SPICA Series converters are particularly well suited for operation with generator based power systems.

The SPICA 3000 Series Frequency Converters also deliver enhanced protection and reliability across a broad range of demanding applications

GENERAL SPECIFICATIONS

- Three level IGBT topology
- Battery connection feature
- 1-Phase or 3-Phase Output
- Multi processor digital control
- Special input-output values according to requirements.
- 256 Event real time log
- RS-232 , RS-485 and dry contact outputs
- SNMP Compatible



APPLICATIONS

- **Aircraft Power Supply Systems**
- **Radar and Flight Control Systems**
- **Naval Platforms and Maritime Systems**
- **Military and Defence Applications**
- **Laboratory Test Benches**

3:3 PHASE
3-LEVEL

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MODEL	SPICA3160-PF1 SPICA3160-PF2	SPICA3200-PF1 SPICA3200-PF2	SPICA3250-PF1 SPICA3250-PF2	SPICA3300-PF1 SPICA3300-PF2	SPICA3400-PF1 SPICA3400-PF2	SPICA3500-PF1 SPICA3500-PF2	SPICA3600-PF1 SPICA3600-PF2	SPICA3800-PF1 SPICA3800-PF2
General								
Nominal Power (kVA)	160	200	250	300	400	500	600	800
Technology	Three Level OnLine Double Conversion							
Waveform	Sinusoidal							
Architecture	Standalone / Parallel (Optional)							
Input								
Input Voltage	380/400/415 Vac 3PH+N+PE							
Input Frequency	50-60-400 Hz							
Voltage Tolerance (%100 load)	+20%							
Voltage Tolerance (%50 load)	-36%, +20%							
Input Power Factor	≥0,99							
Input Current THD	≤3%							
Output								
Output Voltage	380/400/415 Vac 3PH+N+PE ± 1%							
Efficiency (AC-AC)	Up to 96% (@ 50% Load), Up to 95% (@ 100 %Load)							
Ecomode Efficiency	Up to 98% (Optional)							
Nominal Output Frequency	50/60Hz +0,01 Free Run (Adjustable) (Optional)							
Crest Factor	3:1							
Output Power Factor	1 (PF1 Model) / 0,9 (PF2 Model)							
Output Voltage THD	<2% Linear Load & 5% Non-Linear Load							
Communication & Accessories								
Display Type	Graphical LCD, Status LEDES							
Communication Ports (Optionals)	RS485, Modbus , USB, SNMP, GSM Modem, Relay Contacts, Input Contacts, Gensets							
Battery Temperature Sensor Input	Available							
Emergency Power Off (EPO)	Available							
Accessories (Optionals)	Galvanic Isolation Transformer, Remote Monitoring Panel							
Environmental								
Operating Temperature	0°C - 40°C							
Storage Temperature	-15°C+ 55°C							
Relative Humidity	< 95% non condensing							
Noise (@ 1 Meter)	<55 dBA		<58 dBA				<60 dBA	
Altitude	< 1500m							
Protection Class	IP 20 (Higher Ratings are Optional)							
Physical								
Dimensions H x W x D (mm)	1014 x 1402 x 643	1014 x 1402 x 820			884 x 1724 x 1663		930 x 1950 x 2950	
Net Weight (Kg)	260	270	300	315	660 PF1 / 620 PF2	700 PF1 / 640 PF2	800 PF1 / 750 PF2	1050 PF1 / 900 PF2
Compliance								
Standards	EN 62040-1-1 (Safety), EN 62040-2 (EMC), EN 62040-3 (Performance)							