

STATIC FREQUENCY CONVERTER 50/60 - 400 HZ 10 - 120 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
3:1 PHASE
3-LEVEL

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MODEL	SPICA3010-PF1 SPICA3010-PF2	SPICA3015-PF1 SPICA3015-PF2	SPICA3020-PF1 SPICA3020-PF2	SPICA3030-PF1 SPICA3030-PF2	SPICA3040-PF1 SPICA3040-PF2	SPICA3060-PF1 SPICA3060-PF2	SPICA3080-PF1 SPICA3080-PF2	SPICA3100-PF1 SPICA3100-PF2	SPICA3120-PF1 SPICA3120-PF2
General									
Nominal Power (kVA)	10	15	20	30	40	60	80	100	120
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								
Enviromental									
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)	855 x 305 x 735 (PF1&PF2)		1078 x 325 x 895 (PF1 & PF2) 855 x 305 x 735 (PF2 20kVa)		1330 x 420 x 1330 (PF1 40kVa) 1078 x 325 x 895 (PF1 & PF2)		1257 x 432 x 930 (PF1&PF2)		
Dimensions H x W x D (mm) (IP54+)	1580 x 1110 x 1950								
Net Weight (Kg)	48	51	65 PF1 / 54 PF2	71 PF1 / 65 PF2	90 PF1 / 71 PF2	115 PF1 / 95 PF2	125 PF1 / 115 PF2	135 PF1 / 125 PF2	140 PF1 / 130 PF2
Compliance									
Standards	EN 62040-1-1 (Safety), EN 62040-2 (EMC), EN 62040-3 (Performance)								