



STATIC FREQUENCY CONVERTER 15 KVA

The Frequency Converter is designed in PWM (Pulse Width Modulation) technique. An unregulated rectifier with transformer and multi-pulse rectification generates the DC-link voltage. This special designed and high reliable rectifier not only generates a sinusoidal input current, but also generates a nearly unity power factor. The three phase Inverter stage is today either built up by IGBT's or MOS-FET's as power switches. High switching frequencies require only small L/C output filtering and enable quick regulation behavior. An output transformer is used for galvanic separation and voltage adaptation.

For Naval Application

Standard Features

- High efficiency
- Low noise
- High reliability
- Low weight and size
- Remote control
- Input PFC

Application

- Weapon Systems
- Sonar
- Radar
- Communication

Support Service

Complete Integrated
Logistic Support (ILS)





Electrical Specifications

Input

Voltage	. 440 V, 3-ph
Frequency	. 60 Hz
Quality of Mains	Acc. to BV 30, Annex f, STANAG 1008
	. Edition 8 and acc. to MIL-STD 1399, Section 300 A, Type I
Output	
Voltage	. 115 V, 3-ph (Other Voltage on request)
Quality of Output	. Acc. to MIL-STD 1399, Section 300 A, Type III
Static Tolerance	.± 0.5% at voltage sensing point and unsymmetrical load of 50%, or ± 3% at voltage sensing point and unsymmetrical load of 100% (one phase interrupted)
Voltage Unbalance	.≥ 1% at voltage sensing point and unsymmetrical load of 50%, or ≥ 3% at voltage sensing point and unsymmetrical load of 100% (one phase interrupted)
Frequency	. 400 Hz
Frequency Tolerance	.< 0.01%
Power	. 15 kVA
Power Factor	.0.8 lagging to 1,0 to 0.8 leading
Efficiency	.>92% at 100% load
Short-Circuit Current	.2 x Inom for 10 seconds

Environmental Specification

Temperature Range	-5°C to +45°C (operation), -25°C to +70°C (storage)
Humidity	≤ 98%, non condensing
Airborne Noise	Approx. 58 dB (A)
Shock	Acc. to BV 043 (85)
Vibration	Acc. to BV 044 (87)
EMC	Acc. to MIL-STD 461 E, CE 101, CE 102, RE 102
Protection	IP 23 acc. to DIN 40050

Physical Characteristics

Dimensions	. 1200 x 610 x 525 (HxWxD) mm without
shock mounts	
Weight	. 250 kg, ± 5%

Design Characteristics

Indicators	Converter stand-by/online, Input voltage out of range, Output over current, Air inlet temperature, Air flow (fan supervision), 7-segment fault
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Controls	Start/Stop, Lamp test, Remote control
Monitoring	Time counter, Output Voltage and Current
Cooling	Self-cooling by fans

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