ZETA SERIES

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3PHASE 10-1000KVA FREQUENCY CONVERTERS

GENERAL SPECIFICATIONS

- Micro Processor Controlled
- Static IGBT-PWM inverter
- Efficiency > %90
- Clear Sinusoidal Waveform VTHD < %2
- Galvanic Isolated Transformer
- Emergency Stop Button
- Isolated RS485 Communication Contact
- Warning Memory with last 50 events
- LCD panel, 4 rows by 20 characters
- Output Power Factor: 0.8 Ind.- 0.8 Cap.
- Input Power Factor: > 0,90 (>0,98 optional)
- Input Current THD: < %8 (<%5 optional)
- By Soft Start compliant with generator

TECHNICAL SPECIFICATONS

INPUT	
Voltage	380/440VAC -3 Phase (STANAG 1008 Ed.9 compliance for marine applications)
Frequency	50/60 Hz ± " %5 (STANAG 1008 Ed.9 compliance for marine applications)
Protection	Adjustable rectifier operation limits + Fuse
Isolation	Galvanic isolation with Input Isolated 12 Pulse Transformer (MIL-T-17221B compliance)
Current THD%	< %8 (<% 5 option) (for Full load)
Power Factor	> 0,95 (>0.98 option) (for Full load)
OUTPUT	
Voltage	CUSTOMIZED ± %2 (3Phase) (MIL-STD-1399(TipIII) compliance for marine app.
Frequency	50/60/400Hz ± % 0.1 (MIL-STD-1399(TipIII) compliance for marine applications)
Verim	> % 90 (for Full load)
Voltage THD%	<% 3
Power Factor	0,8 - 1 ind.
Over Load	if load % 100-109 -> 1 hour, % 110-124 -> 10 min., % 125-150 -> 1 min
Voltage Protection	Adjustable inverter operation limits. If inverter voltage is out of limits, inverter closes
Temperature Protection	Temperature Protection of IGBT Heatsink and Transformer, Fan Fault sensors
Crest Factor	3:1
PHYSICAL	
Temperature	0 -45 °C
Humidity	%0-95 (uncondensing)
Aqoustic Noise	< 65 dB (A) 1 meter (according to STANAG 4293)
Protection Class	IP23 (optional)
Vibration Resistant	MIL-STD-167-1 Standard compliance
Dielectrical Resistant	MIL-T-17221B Standard compliance
Grounding -Shielding	MIL-STD-1310G Standard compliance
GENERAL	
Warning Messages	50 warning message memory (warning name, date, time),
Operation Systems	Static -Microprocessor Controlled
Operation Technique	IGBT and High Frequency PWM Technique
Operation Class	S1 - Continuously Operation (according to VDE 0530 Standard)
Communication	Isolated RS485, Remote Panel communication (optional), Dry Contacts (optional)
EMC	MIL-STD-461E compliance