Converter / UPS System  30 kVA / 60Hz

3-phase Converter 440 VAC/ 60 Hz to 3x 115 VAC/ 60Hz, Model: 4079

This efficient and compact Converter / UPS System is designed for use on front line Naval combatants. The equipment was designed and developed by EUROATLAS for use by Thyssen Krupp Marine Systems on their latest generation of MEKO®-200A type general purpose vessel for which it converts and maintains power on essential equipment for up to 1 minute at 100% load. The Converter takes 440 VAC / 60 Hz 3-phase and outputs a secure 115 VAC / 60 Hz 3-phase supply.

Key features of the Converter / UPS System:
- Technology based on pulse width modulation (PWM)
- 3-phase IGBT power stage
- Soft start circuit
- Start / stop / local / remote - management
- 3-phase voltage sense with active rectifier and averager
- Automatic bypass
- Aux supplies for +/-15V, 5V and 24V
- Design according to DNV, GL, STANAG 1008
- 36 kW battery capacity
- 10 Years battery lifetime

Standard Features
- Compact size
- High efficiency
- High reliability
- 19” modular design
- STANAG 1008 / DNV/GL

Application
- Naval Surface Vessel

Support Service
- Complete integrated Logistic Support (ILS)
Converter / UPS System

30 kVA / 60Hz

Bulletin 6426

Specification subject to change without notice

Electrical Specifications:

**Input**
- Voltage: 440 V, 3-phase acc. to STANAG 1008 e8
- Frequency: 60 Hz +/- 5%
- Power Factor: > 0.9

**Output**
- Output specification: STANAG 1008 e8
- Voltage: 115 VAC, 3-phase +/- 5% adjustable
- Frequency: 60 Hz with < ± 0.1% tolerance
- Power: 30 kVA cooling requirement: 700 m³/h
- Overload: 30% for 10 min.
- Short circuit current: 300% of nom.
- Power Factor: 1.0...0.8 ind
- Distortion (THD): < 5%
- Efficiency: ≥ 90% at full load

**Battery**
- Type: Hermetically sealed lead acid battery
- Qty. of batteries: 17, each 12 VDC
- Capacity of one cell: 352W / 2 min.
- Capacity battery bank: 36 kW / 2 min.
- Lifetime: min. 10 Years

**Environmental Specifications**

- Temperature Range: -5° C to 50° C
- Temperature: -20° C to +70° C
- Humidity: nom. 85%
- Max. 100% for 1 h non condensing
- Shock: Acc. to BV 0430
- RFI / EMI: acc. to EN55011 and EN61000
- Noise: < 65 dB(A) 20 uPa in 1m distance
- Insulation Class: acc. to VDE 0110, Part 1
- Protection: IP 23

**Physical Characteristics**

- Dimensions: D = 610 mm, W = 1020 mm, H = 1400 mm
- Weight: 790 kg +/- 5%

**Design Characteristics**

- Design: Modular
- MTBF: 18,000 h
- MTTR: < 20 min.
- Design standard: DNV, respectively GL, Electrical
- GL III-1-3a

**Failure System**
- Fault detection, fault analysing and display

**Control & Monitoring**
- Input voltage
- Charging voltage
- Output voltage
- Over load
- Temperature
- 24V aux voltage
- Fan

**Converter / UPS System block diagram**

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