

TFC1000C-4690 AC Source Specifications

The Behlman TFC10000 is a transportable, rugged, precision, three phase 400Hz to three phase 60 Hz frequency converter housed in a stainless steel enclosure suited for outdoor use. The input has a soft start circuit and multi pulse rectification for low input current THD. The output is isolated, neutral may be grounded, and can supply 100% of rated power into any power factor load, zero to unity. The unit has a number of protective circuits including input, short circuit, constant current, and thermal protection. Input and output connections are impervious to weather conditions.

INPUT: 120/208 VAC, 3 phase 360 – 440 Hz.
Multi Pulse Input Transformer for Low Input Current THD.

OUTPUT:

Voltage/Current:	120/208 VAC, 3 phase @ 28 Amps/phase.
Frequency:	60 Hz.
Distortion:	1.5% Typical THD @ 60Hz.
Load Regulation:	±0.7% No Load to Full Load
Line Regulation:	±0.1% for ±10% Line Charge
Efficiency:	85% to 90% at full load.
Power Factor:	100% of rated output into any power factor load.
Current Crest Factor:	3:1



PROTECTIVE CIRCUITS:

Input Protection:	Main circuit breaker.
Constant Current Mode:	Overload automatically causes voltage fold back to provide maximum current without distorting output waveform.
Short Circuit Protection:	Short Circuit electronically latches output open to protect load. Power restored by recycling circuit breaker.
Thermal Protection:	Internal temperature sensor prevents heat damage.

MECHANICAL SPECIFICATIONS:

Enclosure to be high strength 316L stainless steel suited for outdoor use.
Includes mounting angles to allow attaching to a skid.

Dimensions:	22"W X 22"D X 17"H, including heat sink and mounting flanges.
Weight:	275 lbs.
Finish:	CARC paint, color Green, #383 IAW MIL-STD-193L.
Input Connections:	Hubbel No. M5100BR9.
Output Connections:	Hubbel No. M5100R9.

ENVIRONMENTAL:

Operating Temperature:	-32 to 52 degrees C
Non-operating temp:	-40 to 60 degrees C.
Designed to meet:	
MIL-STD-461E:	RE102, CE102, RS103
MIL-STD-810F:	Salt Fog, Humidity, Vibration



World Headquarters

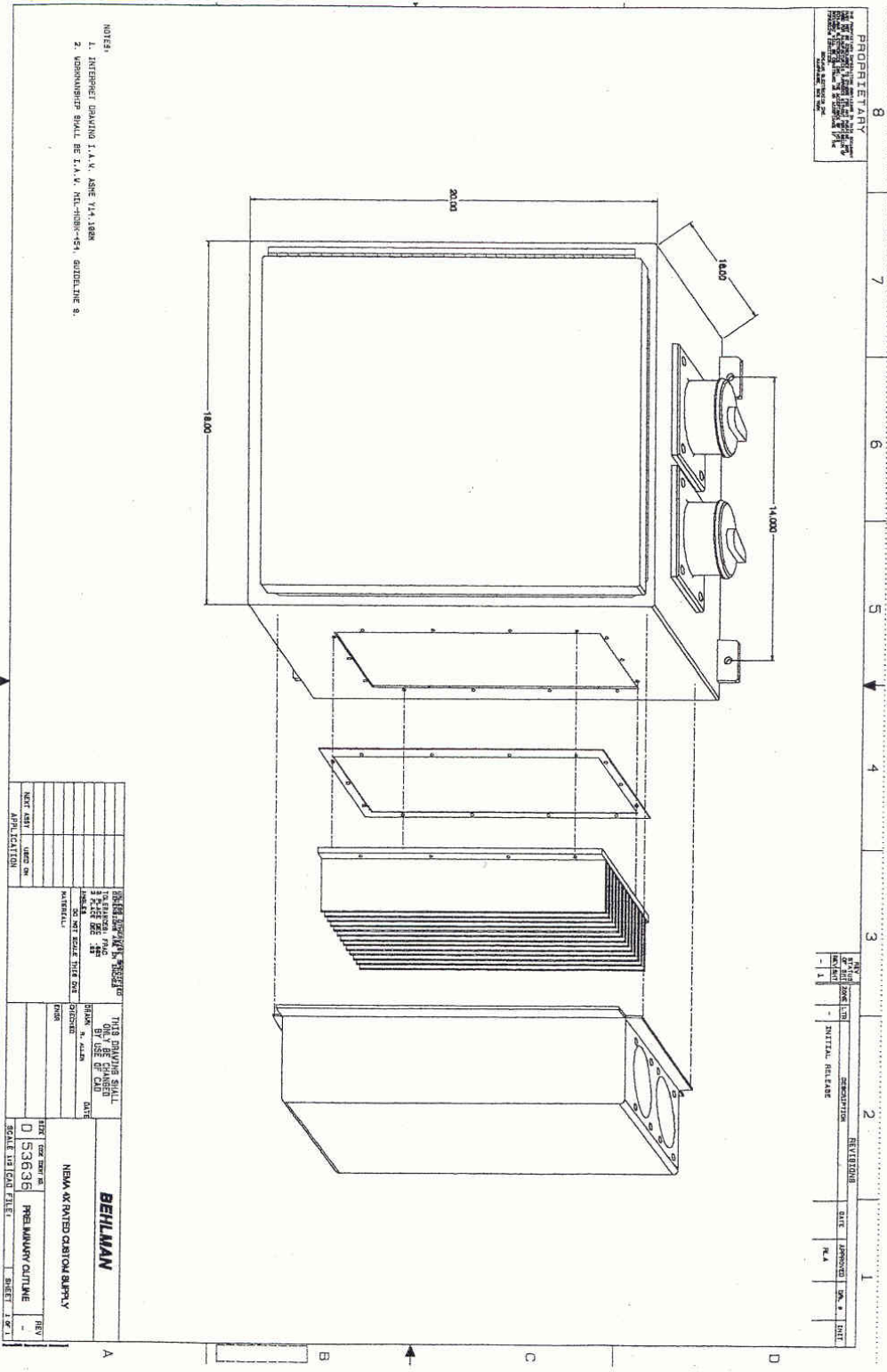
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- NOTES:
1. INTERIET DRAWING I.T.A.K. ASME Y14.1888
 2. DIMENSIONS SHALL BE I.T.A.K. N.D. 1086-151, GUIDELINE 8.

BEHLMAN NEMA 4X RATED CABINET SUPPLY PRELIMINARY OUTLINE SHEET 1 OF 1		THIS DRAWING SHALL ONLY BE CHANGED BY USE OF CAD DRAW	THIS DRAWING IS THE PROPERTY OF BEHLMAN AND SHALL NOT BE REPRODUCED OR COPIED WITHOUT WRITTEN PERMISSION	DATE DRAWN CHECKED APPROVED DATE	NEXT ASSY USED ON APPLICATION
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REV	DATE	BY	DESCRIPTION	REVISION	SITE	APPROVED	DATE
1			INITIAL RELEASE		N.A.		



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