

240 Amp Silicon Passively Controlled **Transformer-Rectifier Unit (PCTRU)** Model 28VS240Y-34

Telephone: (864) 843-1162

Fax: (864) 843-5471

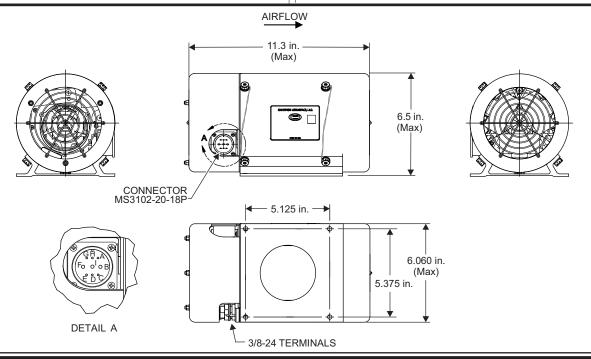
The Model 28VS240Y-34 passively controlled transformer-rectifier unit (PCTRU) is a lightweight, highly reliable, solid state, static AC to DC converter for airborne and ground applications. The unit operates from a 115/200 volts, 400 hertz, 3 phase AC source and provides 240 amperes of continuous current at 28 volts DC (nominal).

Champion's PCTRU provides higher power quality than a regulated TRU by delivering low ripple voltage, transient voltage surge suppression, high efficiency and the highest reliability without the added failures modes inherent to regulated TRUs.

Champion model 28VS240Y-34 clamps high voltage transients to 40 volts max as compared to regulated TRUs and traditional TRUs which can allow high voltage transient up to 70 volts. This higher quality power eliminates faults, increases operational time and performance, reduces operational cost, and increases safety. Champion's PCTRU exceeds power quality requirements of industry standards.

SPECIFICATIONS

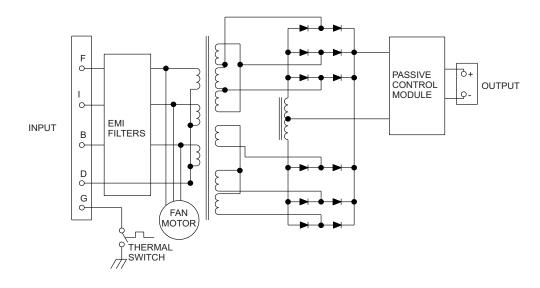
INPUT - AC VOLTAGE 115/200 Volts rms CURRENT, FULL LOAD 21.5 Amperes FREQUENCY 380 to 420 Hertz PHASE 3 Phase, 4 Wire	COOLING Fan ALTITUDE TEMP. RANGE Per Curve 1, MS35543 (ASG) WEIGHT 19.8 lb. (8.98 kg) DIMENSIONS (LxWxH) .11.3 x 6.06 x 6.5 in. (287 x 154 x 165 mm)
	MOUNTING POSTION Any
OUTPUT - DC	
VOLTAGE, NOMINAL	TRANSFORMER
CURRENT	Primary
RIPPLE (Half Load) 0.5 (Max) Volts Pk-Pk	Secondary Delta-Wye
RIPPLE (Full Load) 0.7 (Max) Volts Pk-Pk	RECTIFIERS
OVERLOAD	INCOM IENO
400 amps, One Minute	ELECTRICAL CONNECTIONS
400 amps, One will tale	ELECTRICAL CONNECTIONS
FFFICIENCY 040/ Military	Input MS3102-20-18P Receptacle
EFFICIENCY	Output
POWER FACTOR	Fault Detection Pin G Thermal



TECHNICAL NOTES

The Model 28VS240Y-34 is an exceptionally adaptable unit permitting flexibility in the choice of location of the mounting base in any of four quadrants around its circumference. Fan cooling allows the unit to be mounted in any position; input and output connection locations and mounting provisions may be varied to meet special requirements.

This unit features a unique Class H delta-wye transformer, which is electrically and magnetically symmetrical, and provides for a cooler, less noisy operation. The housing and circular heat sinks are constructed of extruded aluminum for exceptional rigidity. Special aircraft type silicon diodes manufactured for Champion Aerospace, LLC. assure operational dependability. Internal radio noise filtering meet all provisions of MIL-P-26600 and MIL-I-6181. This unit is designed to and meets all requirements of MIL-P-26517, MIL-C-7115, and MIL-STD-704A-F.





PROPRIETARY STATEMENT

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