TRIAD MAGNETICS

CLASS 2/3 TRANSFORMER

FS20-1800-C2

Description:
The FS20-1800-C2 is a series/parallel primary and dual secondary, split bobbin design which operates with either a parallel input of 115V or a series input of 230V. The secondaries are 10V @ 1.8A each. They can be used independently (up to 300V difference between them) or in series for double the voltage or in parallel for double the current. The split bobbin design eliminates the need for costly electrostatic shielding.

Electrical Specifications (@25C)
1. Maximum Power: 36.0VA
2. Primary: Series: 230V; Parallel: 115V
3. Secondaries: 10.0V @ 1.8A each
4. Voltage Regulation: 25% TYP @ full load to no load
5. Temperature Rise: 25C TYP
6. Hipot tested 100% at 4200 VRMS pri to sec
7. Hipot tested 100% at 2160 VRMS sec to sec
8. Recommended fuse (fuse on primary): For 115V - Cooper/Bussman, Type MDL, rated 500mA, 250V. For 230V – Littlefuse, Type 313, rated 250mA, 250V

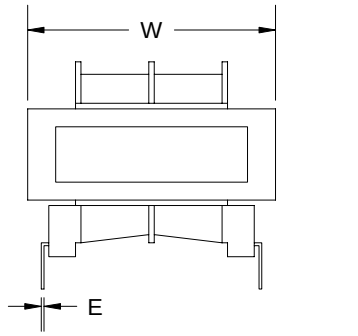
Construction:
Three flange bobbin construction with primaries and secondaries wound side by side for low capacitive coupling. UL Class F Insulation System (155°C).

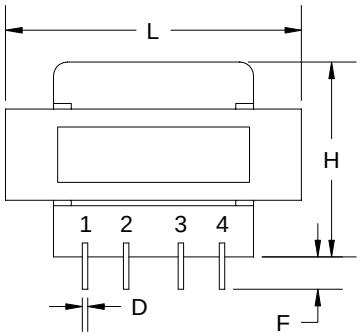
Agency File:
UL: File E65390, UL 5085-1 & 3 (1585), Class 2 not wet / Class 3 wet Transformer
cUL: File E65390, UL 5085-1 & 3 (1585) For Canadian Use (CSA 22.2, No.66.3-06)
TUV Certificate No.: R72120839, EN61558, Safety Isolating xfmr, general use

Dimensions:
Units in inches.

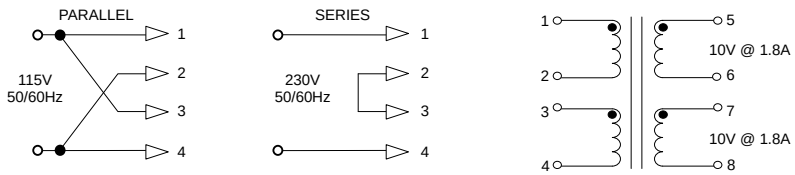
H	W	L	A	B	C	D	E	F
1.562	2.187	2.625	0.400	0.400	1.850	0.041	0.020	0.234

Weight: 1.10 lbs





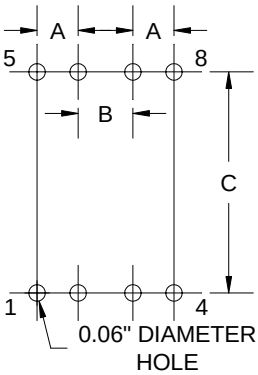
Schematic:



RoHS Compliance: As of manufacturing date February 2005, all standard products meet the requirements of 2011/65/EU, known as the RoHS initiative.

Note: Order and shipping documentation may have a "-B" suffix; this indicates Bulk packaging but does not show on the actual part number marked on the transformer.

* Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics' website for the most current version.



Board Layout

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