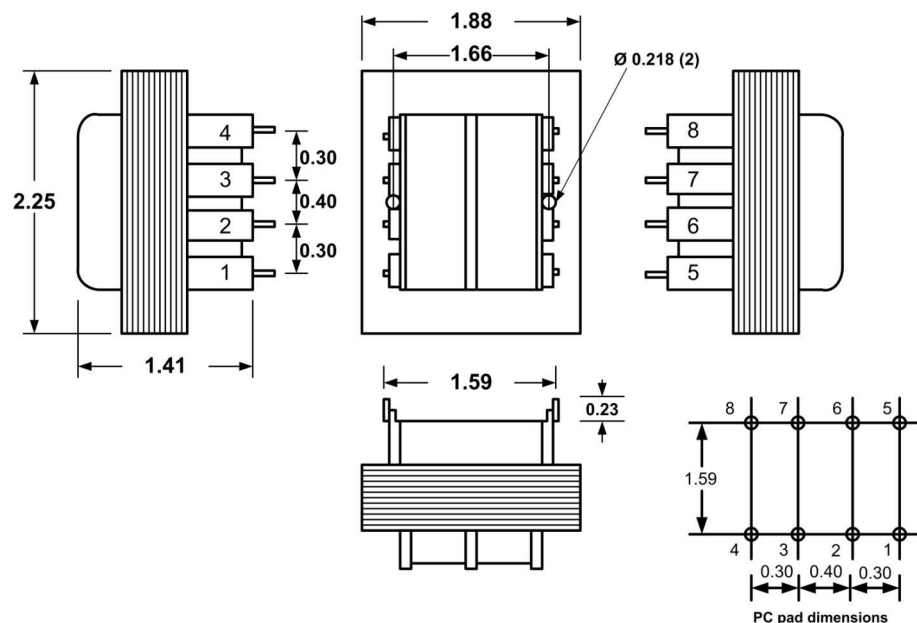


# CAPTAIN CLASS - PRINTED CIRCUIT MOUNT, STANDARD PROFILE POWER TRANSFORMER



## 1. Electrical Specifications

- Maximum Power: 20VA
- Input Voltage and Frequency: 115V, 115/230V, 230V @ 50/60Hz
- Voltage Regulation: 16% TYP @ Full Load to No Load
- Temperature Rise: 35 °C TYP
- Insulation Resistance: > 1 MEG ohm
- Hi-Pot: 2500 Vrms 1 minute @ Pri to Sec  
2500 Vrms 1 minute @ Pri to Core  
1500 Vrms 1 minute @ Sec to Core

## 2. Marking: Ensign Corp, part number (see table), date code, terminal numbers

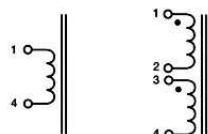
## 3. Safety:

UL/cUL 5085-2 Recognized (File 47299)

UL 1446 Recognized Insulation System (File 95662)



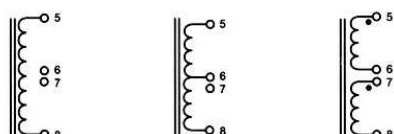
## Primary Schematics



**Single Input**  
(Specify 115V, 120V, 230V or 240V)

**Dual Input**  
(Specify 115/230V or 120/240V)

## Secondary Schematics



**Single Output**

**Center-Tapped Output**

**Dual Output**

| Part No.    |             |             |                   |                     |
|-------------|-------------|-------------|-------------------|---------------------|
| 115V        | 115/230V    | 230V        | Series Connection | Parallel Connection |
| P020-1-010X | P020-2-010X | P020-3-010X | 10VCT @ 2.0A      | 5V @ 4.0A           |
| P020-1-012X | P020-2-012X | P020-3-012X | 12.6VCT @ 1.6A    | 6.3V @ 3.2A         |
| P020-1-016X | P020-2-016X | P020-3-016X | 16VCT @ 1.25A     | 8V @ 2.5A           |
| P020-1-020X | P020-2-020X | P020-3-020X | 20VCT @ 1.0A      | 10V @ 2.0A          |
| P020-1-024X | P020-2-024X | P020-3-024X | 24VCT @ 0.8A      | 12V @ 1.6A          |
| P020-1-028X | P020-2-028X | P020-3-028X | 28VCT @ 0.7A      | 14V @ 1.4A          |
| P020-1-036X | P020-2-036X | P020-3-036X | 36VCT @ 0.55A     | 18V @ 1.1A          |
| P020-1-048X | P020-2-048X | P020-3-048X | 48VCT @ 0.4A      | 24V @ 0.8A          |
| P020-1-056X | P020-2-056X | P020-3-056X | 56VCT @ 0.35A     | 28V @ 0.7A          |
| P020-1-120X | P020-2-120X | P020-3-120X | 120VCT @ 0.16A    | 60V @ 0.32A         |



## POWER TRANSFORMER CAPTAIN CLASS

P020-1-XXXX  
P020-2-XXXX  
P020-3-XXXX

CONTENTS OF THIS DRAWING ARE SUBJECT TO  
CHANGE WITHOUT PRIOR NOTICE

**Ensign Corporation**  
201 ENSIGN RD., BELLEVUE, IA 52031

Dim: Inches

Sheet 1 of 1

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