

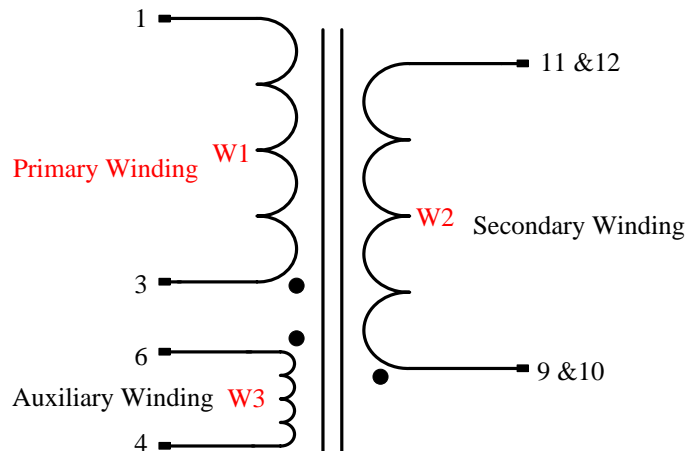
Magnetic Specification: iUPS (20W) TX. Spec.

Industry Standards:

UL1778 Standard for Safety.

CSA22.2 NO.107.1 Commercial & Industrial Power Supplies.

SCHEMATIC



PQ 20/16

Core

B65875B

- To IEC 62317-13
- Delivery mode: sets

Magnetic characteristics (per set)

$$\Sigma l/A = 0.588 \text{ mm}^{-1}$$

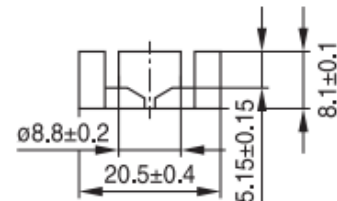
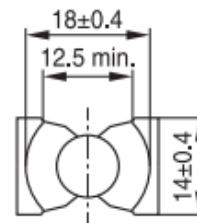
$$l_e = 37.2 \text{ mm}$$

$$A_e = 63.2 \text{ mm}^2$$

$$A_{\min} = 54.4 \text{ mm}^2$$

$$V_e = 2360 \text{ mm}^3$$

Approx. weight 13 g/set



FPK0470-L

Winding Sequence

| |
|------------------------|
| Insulation Tape |
| Half W1 Winding |
| 1 Layer of Insulation |
| W3 Winding |
| 1 Layers of Insulation |
| W2 Winding |
| 1 Layers of Insulation |
| Half W1 Winding |
| Insulation Tape |

Specification

1. Isolation between primary to secondary is 1.5kV.
2. Isolation of core to all winding required is 1kV.
3. Inductance of W1 is 1334 μ H \pm 10%
4. Put air-gap at center limb only.
5. Impregnation is available.
6. Spread winding across all winding area.
7. Insulation class should be used Class 'F'.
8. Insulation material thickness =2mil.
9. Leakage Inductance should be less than 13 μ H.
10. Bobbin is PQ 2016B

Winding Information:

| Winding terminal | Winding | Description | Wire | Turns |
|------------------|---------|-------------------|---------------|-------|
| 3-1 | W1 | Primary Winding | 1 x # 29AWG | 69 |
| 9 & 10- 11 & 12 | W2 | Secondary Winding | 2 x 25 T.I.W. | 8 |
| 6-4 | W3 | Auxiliary Winding | 4 x 31 AWG | 7 |

Electrical Parameters:

| Test | Winding | Min. | Max. | Limit |
|-------------------|----------------------|------|------|-------|
| Resistance @ 25°C | 3-1(W1) | - | 160 | mOhms |
| | 9 & 10- 11 & 12 (W2) | - | 10 | mOhms |
| | 6-4 (W3) | - | 20 | mOhms |