

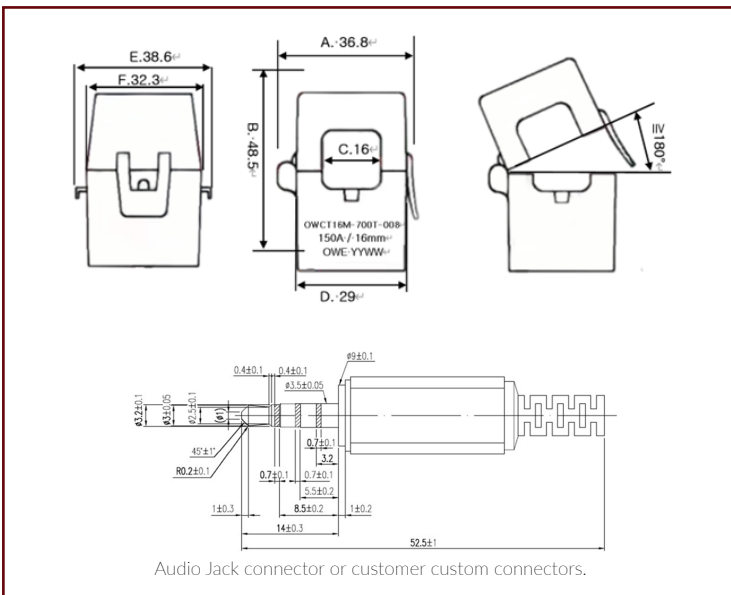
OWCT16M Split Core CT 16MM SPLIT CORE CURRENT TRANSFORMER

GENERAL SPECIFICATION

- Primary Cable wire size: OD 16mm Max.
- Compliance UL94V0, IEC61010-1, IEC61869-1
- Primary current range: 0-200A
- Primary voltage: 230V/1phase, 400V/3phase
- Voltage grade: 0.66/0.72Kv
- Insulation Resistance: $\geq 1\text{Gohm}$
- Dielectric strength: 2KV, 50Hz, 60sec.
- Operation Frequency 50Hz to 200kHz
- Operation temperature: -30°C to 100°C
- Impulse voltage: 1.2/50us 5000V
- Accuracy: 0.5% to 3%
- Altitude: $\leq 1000\text{m}$
- Lifetime: ≥ 10 years
- RoHS & REACH compliant

APPLICATIONS

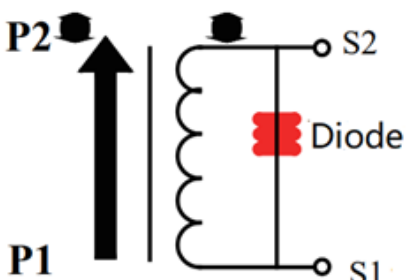
- Measures AC current flow to electric Motors
- Electrical Power monitoring
- Renovation Power grid project
- Lighting
- Aircondition equipment etc. compatible with HVAC temperature control
- Building automation systems



DIMENSION OF OWCT16M SPLIT CORE CT

| OW P/N | A (mm) Max. | B (mm) Max. | C (mm) Max. | D (mm) Ref. | E (mm) Ref. | F (mm) Ref. | Audio Jack wire length (mm) Ref. |
|---------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| OWCT16M | 36.8 \pm 0.3 | 48.5 \pm 0.5 | 16.0 \pm 0.5 | 29.0 \pm 0.3 | 38.6 \pm 0.5 | 32.3 \pm 0.3 | 500 |

SCHEMATIC OF OWCT16M SPLIT CORE CT



ELECTRICAL CHARACTERISTIC OF **OWCT16M SPLIT CORE CT**

| OW P/N | Rated input current <i>A(ac)</i> | Rated output current <i>mA(ac)</i> | Max. primary current range <i>A(ac)</i> | Operation current <i>A(ac)</i> | Resistance of rated sampling Ω | Voltage of rated sampling <i>Vac</i> | Turns ratio | Secondary DCR Ref. Ω | Phase Linearity Error <i>Minutes</i> | Accuracy Error % | Linearity % | Weight Ref. <i>g</i> |
|--------------|-------------------------------------|---------------------------------------|--|-----------------------------------|--|---|-------------|--------------------------------|---|---------------------|----------------|-------------------------|
| OWCT16M-700T | 100 | 70 | 0-150 ($RL \leq 10\Omega$) | 0-100 ($RL \leq 10\Omega$) | 10 | 0.7 | 700:1 | 23 | 120' | 3 | 3 | 78 |
| OWCT16M-1KT | 100 | 100 | 0-150 ($RL \leq 10\Omega$) | 0-100 ($RL \leq 20\Omega$) | 20 | 2 | 1000:1 | 41 | 60' | 0.5 | 0.3 | 82 |
| OWCT16M-2KT | 100 | 50 | 0-200 ($RL \leq 10\Omega$) | 0-100 ($RL \leq 100\Omega$) | 100 | 5 | 2000:1 | 125 | 45' | 0.5 | 0.3 | 89 |
| OWCT16M-3KT | 150 | 50 | 0-190 ($RL \leq 10\Omega$) | 0-150 ($RL \leq 75\Omega$) | 75 | 3.75 | 3000:1 | 293 | 45' | 0.5 | 0.3 | 88 |
| OWCT16M-4KT | 100 | 25 | 0-180 ($RL \leq 10\Omega$) | 0-150 ($RL \leq 50\Omega$) | 300 | 7.5 | 4000:1 | 565 | 45' | 0.5 | 0.3 | 87 |
| OWCT16M-5KT | 100 | 20 | 0-160 ($RL \leq 10\Omega$) | 0-150 ($RL \leq 50\Omega$) | 400 | 8 | 5000:1 | 860 | 45' | 0.5 | 0.3 | 87 |

NOTE:

1. Suppressor regulator diode installed internally to prevent wire exposure, enhancing safety measures.
2. Possibility to customize internal resistance value to achieve various output voltages, such as 0.333Vac.
3. Possibility to customize the length of the output lead wire and select different connectors according to preferences.
4. Type test and routine test comply with IEC61869-1 requirement.

