

Topstek True RMS Current Transducer TU20P5A..TU20P250A-CL420

TU20P 5A~250A-CL420

Features

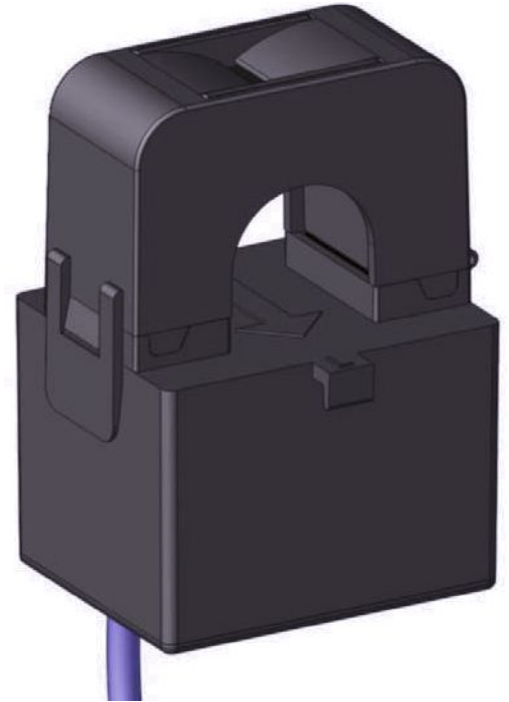
- ◆ Highly reliable True RMS current measurement device
- ◆ Clamp on split core structure
- ◆ Faster response time than temperature sensing
- ◆ Excellent linearity of the output voltage over a wide input range
- ◆ VFD and SCR type waveforms current measurement
- ◆ 4-20mA True RMS current loop output
- ◆ High isolation voltage between the measuring circuit and the current-carrying conductor (AC3KV)
- ◆ Flame-Retardant plastic case and silicone encapsulant, using UL classified materials, ensures protection against environmental contaminants and vibration over a wide temperature and humidity range

Applications

- ◆ Power measurement, power panel
- ◆ True RMS AC+DC current measurement

Options

- ◆ Connector type: specify -E or -M. If other types of connector required, please contact factory for other possibilities.
 - M: UL 1017 AWG22, Length:150±10mm with Molex 5045 type female connector (2.54mm pitch)
 - Y: UL 1017 AWG18 Wire, Length:3000±50mm, Two Y4.3 Terminals with PVC Tube



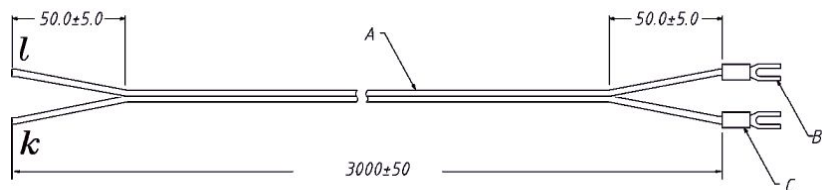
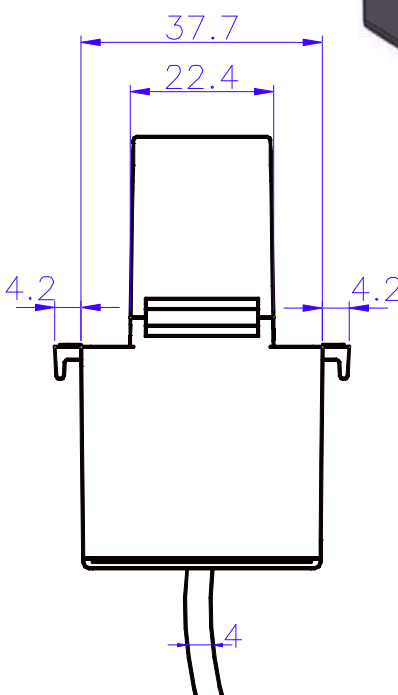
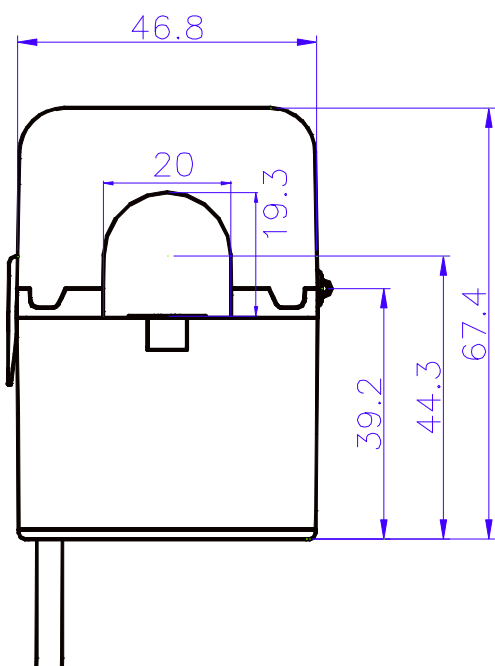
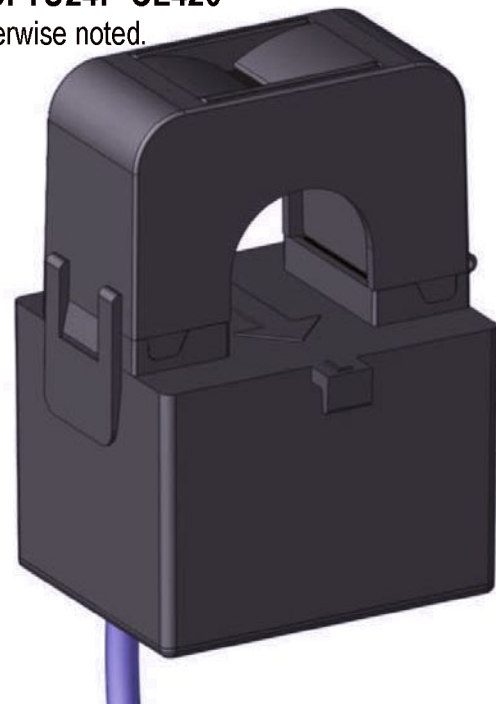
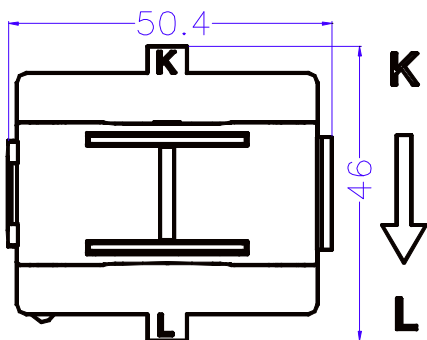
Specifications

Parameter	Symbol	Unit	5A	10A	20A	30A	50A	75A	100A	150A	200A	250A
Full Scale Input Current	I_{PN}	A_{RMS}	5	10	20	30	50	75	100	150	200	250
Max Primary Current Peak	I_{PMax}	A	±30	±60	±120	±180	±300	±450	±450	±450	±600	±600
Input Crest Factor (Peak/Average Ratio)	CF		6	6	6	6	6	6	4.5	3	3	2.4
Current Output Protocol	I_{OUT}	mA	4-20 mA Current Loop, 4mA@ $I_P=0A$, 20mA@ $I_P = I_{PN}$									
Output Offset Current	I_{OS}	mA	+4 mA									
Over-Scale Output Current	I_{OL}	mA	<+23 mA									
Load Resistance	R_L	Ω	<300 Ω									
Supply Voltage	V_{CC}	V	+20V .. +32V									
Accuracy @ I_{PN}		%	Within ±1% of I_{PN} @25°C(excluding offset)									
Linearity	ρ	%	Within ±1% of I_{PN}									
Consumption Current	I_{CC}	mA	4-20 mA (= I_{OUT})									
Response Time (90% I_{PN} Step)	T_r	μ sec	<200 msec									
Frequency bandwidth (±1dB)	f_{BW}	Hz	20 to 6kHz									
Thermal Drift of Output	-	%/°C	Within ±0.1 %/°C @ I_{PN}									
Thermal Drift of Zero Current Offset	-	$\mu A/^\circ C$	< ±3 $\mu A/^\circ C$ (0-60°C), < ±6 $\mu A/^\circ C$ (-40 .. 70°C)									
Dielectric Strength	-	V	AC3KV X 60 sec									
Isolation Resistance @ 1000 VDC	R_{IS}	M Ω	>1000 M Ω									
Operating Temperature	T_a	°C	-40°C to 70°C									
Storage Temperature	T_s	°C	-45°C to 85°C									
Mass	W	g	225 g									

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Appearance, dimensions and pin identification of TU24P-CL420

All dimensions in mm ± 0.5 , holes $-0, +0.2$ except otherwise noted.



Option Y Terminal

Application Connection

