Topstek True RMS Current Transducer TU12P5A..TU12P150A-CL420

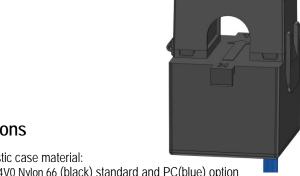
TU12P 5A~150A-CL420

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

Applications

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



Options

- ◆ Plastic case material: UL94V0 Nylon 66 (black) standard and PC(blue) option
- ◆ Operating temperature range: 70°C standard and option 85°C available
- ◆ 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

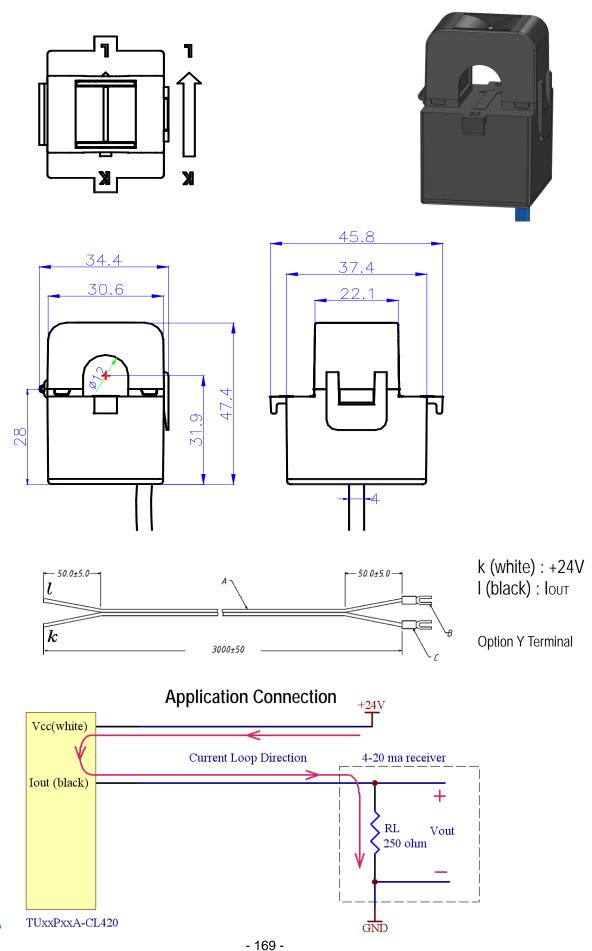
Specifications

Parameter	Symbol	Unit	5 A	10A	20A	30A	50A	75A	100A	150A
Full Scale Input Current	I _{PN}	A RMS	5	10	20	30	50	75	100	150
Max Primary Current Peak	I _{PMax}	А	±30	±60	±120	±180	±300	±450	±450	±450
Input Crest Factor (Peak/Average Ratio)	CF		6	6	6	6	6	6	4.5	3
Current Output Protocol	Іоит	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	Vcc	V	+20V +32V							
Accuracy @ I _{PN}		%	Within ±1% of I _{PN} @25°C(excluding offset)							
Linearity	ρ	%	Within ±1% of I _{PN}							
Consumption Current	Icc	mA	4-20 mA (= I _{OUT})							
Response Time (90% I _{PN} Step)	Tr	μsec	<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	-	μΑ/°C	< ±3μΑ/°C(0-60°C), < ±6μΑ/°C(-40 70°C)							
Dielectric Strength	-	V	AC3.5KV X 60 sec							
Isolation Resistance @ 1000 VDC	R _{IS}	МΩ	>1000 MΩ							
Operating Temperature	Ta	°C	-40°C to 70°C							
Storage Temperature	Ts	°C	-45°C to 85°C							
Mass	W	g	80 g							

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Appearance, dimensions and pin identification of TU16P-CL420

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



www.topstek.com

