Topstek True RMS Current Transducer TU10P5A..TU10P90A-CL420

TU10P5A~90A-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 current measurement

Specifications



Options

- Plastic case material:
 UL 04) (0 Nulser CC (block) at/
- 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

Parameter	Symbol	Unit	5A	7.5A	10A	15A	20A	30A	50A	75A	90A	
Full Scale Input Current	I _{PN}	A RMS	5	7.5	10	15	20	30	50	75	90	
Max Primary Current Peak	I _{PMax}	А	±30	±45	±60	±90	±120	±180	±250	±250	±250	
Input Crest Factor (Peak/Average Ratio)	CF		6	6	6	6	6	6	5	3.3	2.7	
Current Output Protocol	Іоит	mA	4-20 mA Current Loop, 4mA@ I_P =0A, 20mA@ I_P = I_{PN}									
Output Offset Current	l _{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	Icc	mA	4-20 mA (= Ιουτ)									
Response Time (90% IPN 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	-	μA/°C	< ±3µA/°C(0-60°C), < ±6µA/°C(-40 70°C)									
Dielectric Strength	-	V	AC3KV X 60 sec									
Isolation Resistance @ 1000 VDC	R _{IS}	MΩ	>1000 MΩ									
Operating Temperature	Ta	°C		-40°C to 70°C								
Storage Temperature	Ts	°C		-45°C to 85°C								
Mass	W	g	58 g									



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Appearance, dimensions and pin identification of TU10P-CL420 All dimensions in mm ±0.2, holes -0, +0.2 except otherwise noted.



