Topstek Current Transducer TQPV50A.. TQPV350A

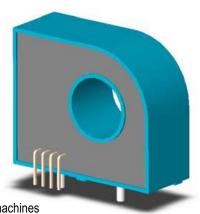
TQPV50A~350A

Features

- ◆ Highly reliable Closed Loop Hall Effect device
- ◆ Open Loop CT voltage output format: 4V out at nominal input
- ◆ Compact and light weight
- ◆ Fast response time
- ◆ Excellent linearity of the output voltage over a wide input range
- ◆ Excellent frequency response (> 125 kHz)
- ◆ Low power consumption at quiescent state (10 mA nominal)
- ◆ Capable of measuring both DC and AC, both pulsed and mixed
- ♦ High isolation voltage between the measuring circuit and the current-carrying conductor (AC2.5KV)
- ◆ Extended operating temperature range
- ◆ Flame-Retardant plastic case and silicone encapsulated, using UL classified materials, ensures protection against environmental contaminants and vibration over a wide temperature and humidity range

Applications

- ♦ UPS systems
- ♦ Industrial robots
- ♦ NC tooling machines
- ◆ Elevator controllers
- ◆ Process control devices
- ◆ AC and DC servo systems
- ◆ Motor speed controller
- ◆ Electrical vehicle controllers
- ◆ Inverter-controlled welding machines
- ♦ General and special purpose inverters
- ♦ Power supply for laser processing machines
- ◆ Controller for traction equipment eg. electric trains
- Other automatic control systems



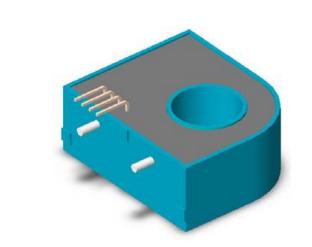
Specifications

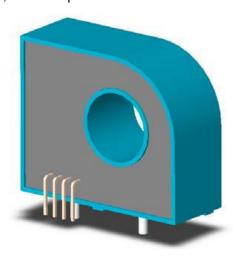
Parameter	Symbol	Unit	TQPV 50A	TQPV 75A	TQPV 100A	TQPV 125A	TQPV 150A	TQPV 200A	TQPV 250A	TQPV 300A	TQPV 350A
Nominal Input Current	I _{fn}	A DC	±50	±75	±100	±125	±150	±200	±250	±300	±350
Linear Range	I _{fs}	A DC	±150	±225	±300	±375	±450	±600	±750	±750	±750
Secondary Coil Current	Is	Α	I _f /1500		I _f /2500		I _f /3200				
Consumption Current@ I _f =I _{fn}	Icc	mA	47	63	80	63	73	75	91	106	120
Nominal Output Voltage	V_{hn}	V	±4 V±1% at If=Ifn (R_L =10k $\Omega)$, T_a =25°C								
Supply Voltage	V _{CC} /V _{EE}	V	±15V±5%								
Offset Voltage	Vos	mV	Within ±40 mV @ I _f =0, T _a =25°C								
Output Resistance	R _{OUT}	Ω	<100Ω(50Ωnominal)								
Hysteresis Error	V _{oh}	mV	Within ±25 mV @ I _f =I _{fn} →0								
Linearity	ρ	%	Within ±0.2% of I _{fn}								
Response Time (90%V _{hn})	T _r	μsec	3 μ sec max. @ $d I_f/dt = I_{pn}/\mu$ sec								
Frequency Bandwidth (-3dB)	f _{BW}	Hz	DC to 125kHz								
Thermal Drift of Output	-	%/°C	Within ±0.02 %/°C @ I _{fn}								
Thermal Drift of Zero Current Offset	-	mV/°C	Within ±1.5 mV/°C @ I _{fn}								
Dielectric Strength	-	V	AC2.5KV X 60 sec								
Isolation Resistance @ 1000 VDC	R _{IS}	МΩ	>1000 MΩ								
Operating Temperature	Ta	°C	-40°C to 80°C								
Storage Temperature	Ts	°C	-40°C to 85°C								
Mass	W	g	<40 g								

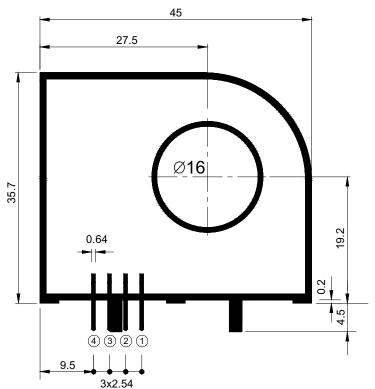


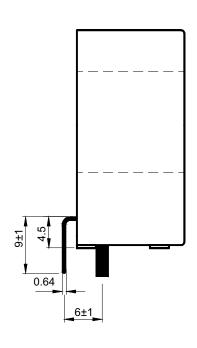
TopsTek Current Transducer TQPV50A .. TQPV350A

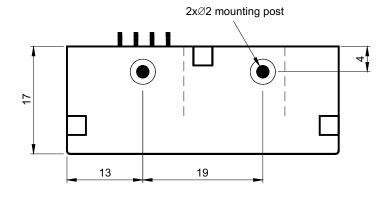
Appearance, dimensions and pin identification All dimensions in mm ±0.2, holes –0, +0.2 except otherwise noted.











Pin Assignment					
1	+15V				
2	-15V				
3	Vouт				
4	0V				



TQPV