Topstek Current Transducers TE100A .. TE600A-B12



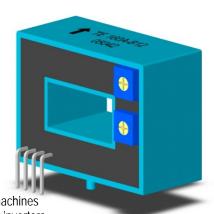
TE 100A~600A-B12

Features

- ◆ Highly reliable Hall Effect device
- ◆ Compact and light weight
- ◆ Fast response time
- ◆ Excellent linearity of the output voltage over a wide input range
- ◆ Excellent frequency response (> 50 kHz)
- ◆ Low power consumption (12 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 encapsulate, using UL classified materials, ensures protection against environmental contaminants and vibration over a wide temperature and humidity range

Applications

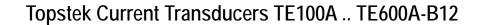
- ◆ UPS systems◆ Industrial robots
- ♦ NC tooling machines
- ◆ Elevator controllers
- ◆ Process control devices
- ◆ AC and DC servo systems
- ◆ Motor speed controller
- ◆ Electrical vehicle controllers
- ◆ Inverter-controlled welding machines
- ♦ General and special purpose inverters
- ◆ Power supply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



Specifications

Parameter	Symbol	Unit	TE 100A -B12	TE 150A -B12	TE 160A -B12	TE 200A -B12	TE 220A -B12	TE 250A -B12	TE 300A -B12	TE 400A -B12	TE 500A -B12	TE 600A -B12
Nominal Input Current	I _{fn}	Arms	100	150	160	200	220	250	300	400	500	600
Linear Range	I _{fs}	Arms	105	157	168	210	231	262	315	420	525	630
Nominal Output Voltage	V _{hn}	V	7.07 Vrms(10Vdc peak)±1% at If=I _{fn} (R _L =10k Ω)									
Offset Voltage	V _{os}	mV	Within ± 35 mV @ I_f =0, T_a =25°C									
Output Resistance	R _{OUT}	Ω	<100Ω									
Hysteresis Error	V_{oh}	mV	Within ±15 mV @ I _f =I _{fn} →0									
Supply Voltage	V _{CC} /V _{EE}	V	±12V ±5%									
Linearity	ρ	%	Within ±1% of I _{fn}									
Consumption Current	Icc	mA	±12 mA nominal, ±15 mA max									
di/dt accurately followed	dl _f /dt	A/μsec	>50 A/µsec									
Response Time (90%V _{hn})	T _r	μsec	5 μ sec max. @ $d I_f / dt = I_{fn} / \mu$ sec									
Frequency bandwidth (-3dB)	f _{BW}	Hz	DC to 50kHz									
Thermal Drift of Output	-	%/°C	Within ±0.05 %/°C @ I _{fn}									
Thermal Drift of Zero Current Offset	-	mV/°C	Within ±1.0 mV/°C @ I _{fn}									
Dielectric Strength	-	V	AC2.5KV X 60 sec									
Isolation Resistance @ 1000 VDC	R _{IS}	ΜΩ	>1000 MΩ									
Operating Temperature	Ta	°C	-15°C to 80°C									
Storage Temperature	Ts	°C	-20°C to 85°C									
Mass	W	g	50g									







Appearance, dimensions and pin identification All dimensions in mm ± 0.5 , holes -0, ± 0.2 except otherwise noted.

