



Topstek Current Transducers TE50A .. TE600A

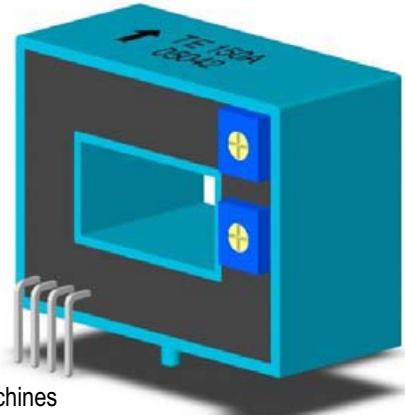
TE 50A~600A

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

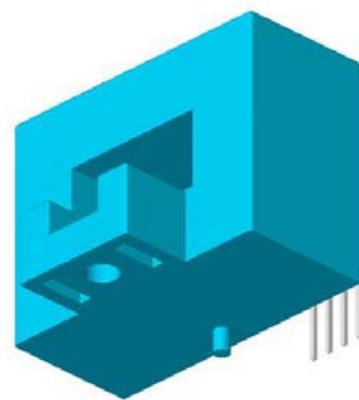
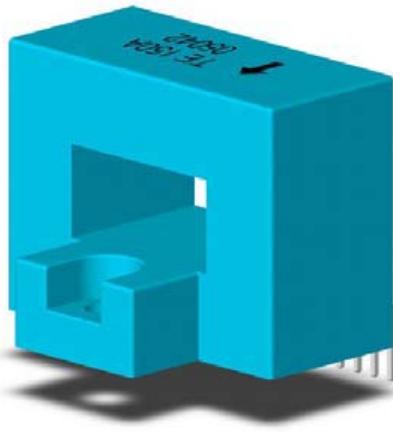
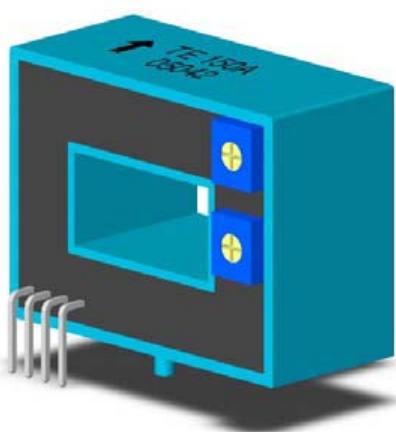
Parameter	Symbol	Unit	TE 50A	TE 75A	TE 100A	TE 125A	TE 150A	TE 175A	TE 200A	TE 250A	TE 300A	TE 400A	TE 600A
Nominal Input Current	I _{fn}	A DC	50	75	100	125	150	175	200	250	300	400	600
Linear Range	I _{fs}	A DC	±150	±225	±300	±375	±450	±525	±600	±750	±900	±1000	±1000
Nominal Output Voltage	V _{hn}	V											
Offset Voltage	V _{os}	mV											
Output Resistance	R _{OUT}	Ω											
Hysteresis Error	V _{oh}	mV											
Supply Voltage	V _{CC} /V _{EE}	V											
Linearity	ρ	%											
Consumption Current	I _{cc}	mA											
Response Time (90%V _{hn})	T _r	μsec											
Frequency bandwidth (-3dB)	f _{BW}	Hz											
Thermal Drift of Output	-	%/°C											
Thermal Drift of Zero Current Offset	-	mV/°C											
Dielectric Strength	-	V											
Isolation Resistance @ 1000 VDC	R _{IS}	MΩ											
Operating Temperature	T _a	°C											
Storage Temperature	T _s	°C											
Mass	W	g											



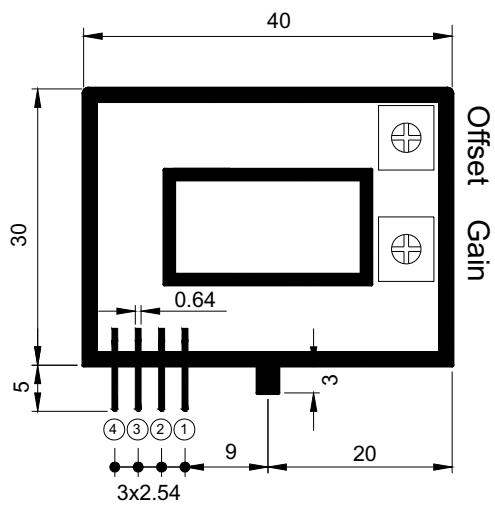
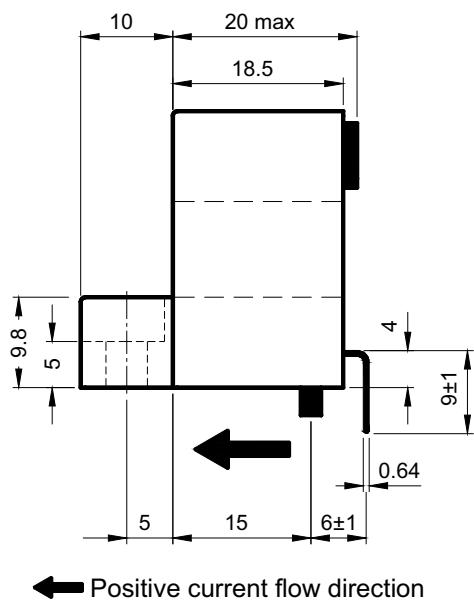
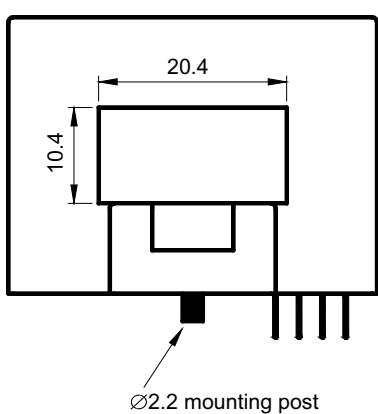
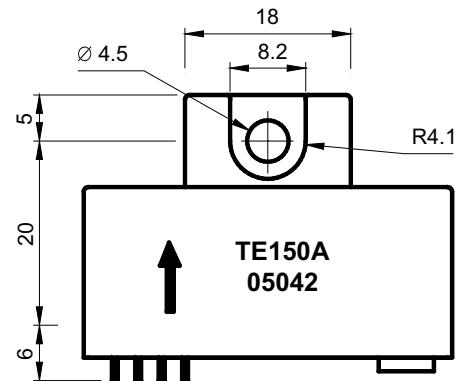
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Appearance, dimensions and pin identification

All dimensions in mm ± 0.1 , holes $-0, +0.2$ except otherwise noted.



Pin Assignment	
(1)	+15V
(2)	-15V
(3)	Vout
(4)	0V



Offset Gain