Topstek Current Transducers TW25A .. TW300A

TW 25A~300A

Features

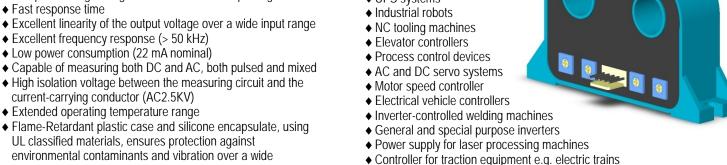
- ◆ Highly reliable Hall Effect device
- ◆ Compact and light weight. Two sensors in one package

- ♦ High isolation voltage between the measuring circuit and the
- UL classified materials, ensures protection against environmental contaminants and vibration over a wide temperature and humidity range

Applications

◆ UPS systems

◆ Other automatic control systems



Specifications

Parameter	Symbol	Unit	TW 25A	TW 37.5A	TW 50A	TW 75A	TW 100A	TW 125A	TW 150A	TW 175A	TW 200A	TW 250A	TW 300A
Nominal Input Current	I _{fn}	A DC	25	37.5	50	75	100	125	150	175	200	250	300
Linear Range	I _{fs}	A DC	±75	±112.5	±150	±225	±300	±375	±450	±525	±600	±750	±750
Nominal Output Voltage	V _{hn}	V	4 V±1% @ If=I _{fn} (R_L =10k Ω)										
Offset Voltage	Vos	mV	Within ± 35 mV @ I_f =0, T_a =25°C										
Output Resistance	Rout	Ω	<100Ω(50Ωnominal)										
Hysteresis Error	V _{oh}	mV	Within ±30 mV @ I _f =I _{fn} →0										
Supply Voltage	V _{CC} /V _{EE}	V	±15V ±5%										
Linearity	ρ	%	Within ±1% of I _{fn}										
Consumption Current	I _{cc}	mA	±22 mA nominal, ±30 mA max										
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 ±0.1 %/°C @ I _{fn}										
Thermal Drift of Zero Current Offset	-	mV/°C	$<\pm3$ mV/°C $<\pm1.5$ mV/°C $<\pm1$ mV/°C										
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	150 g										



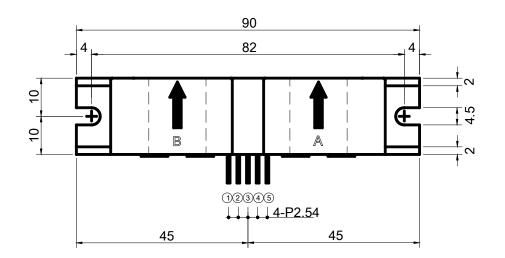
TW

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



Positive current flow direction



Pin Assignment					
1	0V				
2	B output				
3	A output				
4	-15V				
5	+15V				

Output Connector: Molex 5045-05 Matching connector: 5102-05, 5051-05

