



Current Transducer

Applications

For the electronic measurement of currents: AC, DC IMPL.,etc.,with galvanic isolation between the primary (high power) and the secondary (electronic) circuits.





Advantages	Applications	Standards
Excellent accuracy	AC variable speed drives	EN50178
Very good linearity	Servo motor drives	EN50155
Low temperature drift	Battery supplied applications	
Wide frequency bandwidth	converter /inverter	
Optimized response time	UPS/SVG	

Main electrical data		
I _{PN} (A)	Primary nominal current rms	1000
I _P (A)	Primary current measuring range	0∼±2100
	Conversion ratio	1:5000
V _C (V)	Supply voltage	DC±(15~24)×(1±5%)V
I _{SN} (mA)	Secondary nominal current rms	200mA
$R_{M}(\Omega)$	Measuring resistance	
	70℃	85℃
$@\pm 15V,$	± 1000 A: $0\Omega \sim 23\Omega$	0Ω ~19Ω
$@\pm15V$,	± 1300 A: $0\Omega \sim 7\Omega$	
$@\pm 24V$,	± 1000 A: $0\Omega \sim 63\Omega$	10Ω ~61Ω
$@\pm 24V$,	± 2100 A: $0\Omega \sim 6\Omega$	
I _C (@±24V)	Current consumption	≤35mA+ Secondary output current I _{SN}
	Isolation test: Between the primary	3.8kVrms/50Hz/1min
	circuit to the secondary circuit	

Accuracy - Dynamic performance data		
δi		≤±0.4%





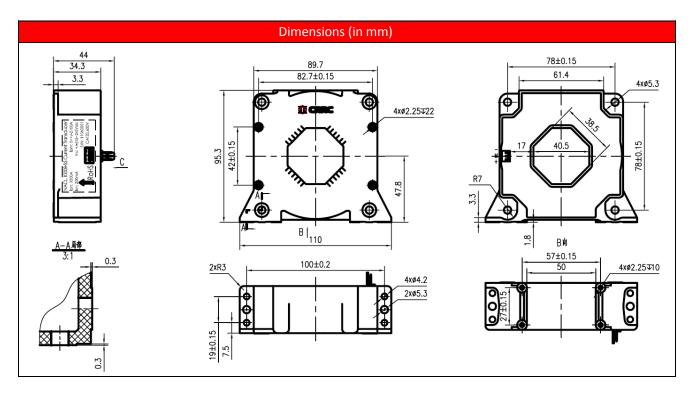


NT1000D-S(NACL.1000B-S5)



(@I _{PN} , T _A =25°C)	Overall Accuracy	
δL		<0.1%
(@I _{PN} , T _A =25°C)	Linearity error	
I_{O}		≤ ±0.4mA
(@I _P =0,T _A =25°C)	Offset current	<u> </u>
I_{OT}	Thermal drift	$\leq \pm 0.8$ mA (-40°C~+85°C)
$t_{\rm r}$	Response time to 90% of I_{PN} step	≤1us
di/dt	di/dt Accurately followed	>100A/us
BW	Frequency bandwidth(-1dB)	DC100kHz

General data		
Та	Ambient operating temperature	-40°C~+85°C
Ts	Ambient storage temperature	-45℃~+90℃
	Clearance distance dCl mm	16.8
	Creepage distance dCp mm	18.3
	СТІ	>175
	Mass	≤850g



Connection

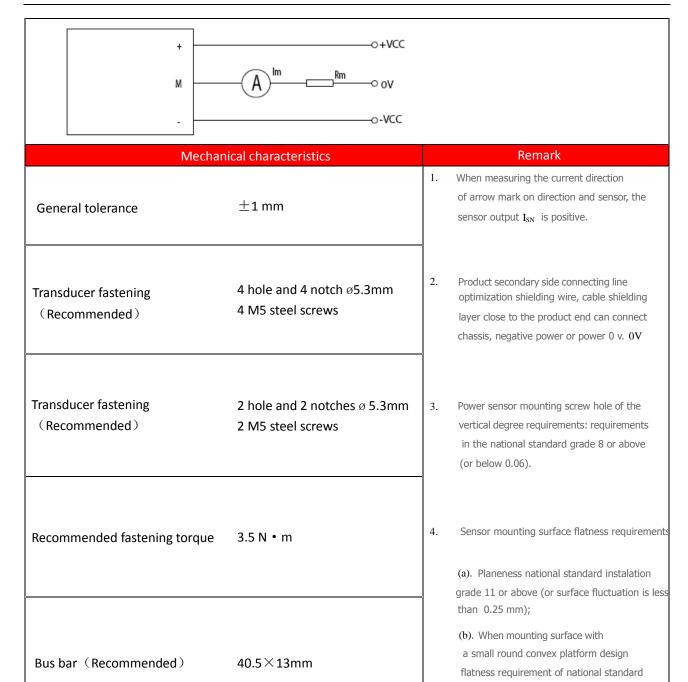
Connection of secondary: MOLEX 6410













Connection of secondary

Molex 6410



grade 12 or more (or less than 0.5 mm) in

plane ups and downs;

5. Did not note the tolerance + / - 1 mm;

