

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	1000A
I_P (A)	Primary current measuring range	0~±2400
	Turns ratio	1:5000
V_C (V)	Supply voltage	DC±(15~24)×(1±5%)V
I_{SN} (mA)	Secondary nominal current rms	200mA
R_M (Ω)	Measuring resistance	
	R_{Mmin} R_{Mmax}	
with ±15V @±1000A max:	0Ω 15Ω	
@±1200A max:	0Ω 7Ω	
with ±24V @±1000A max:	0Ω 50Ω	
@±2000A max:	0Ω 7Ω	
I_C (@±24V)	Current consumption	≤30mA+ Secondary output current I_{SN}
	Isolation test: Between the primary circuit to the secondary circuit	13.4kVrms/50Hz/1min
	Case material	UL94V-0

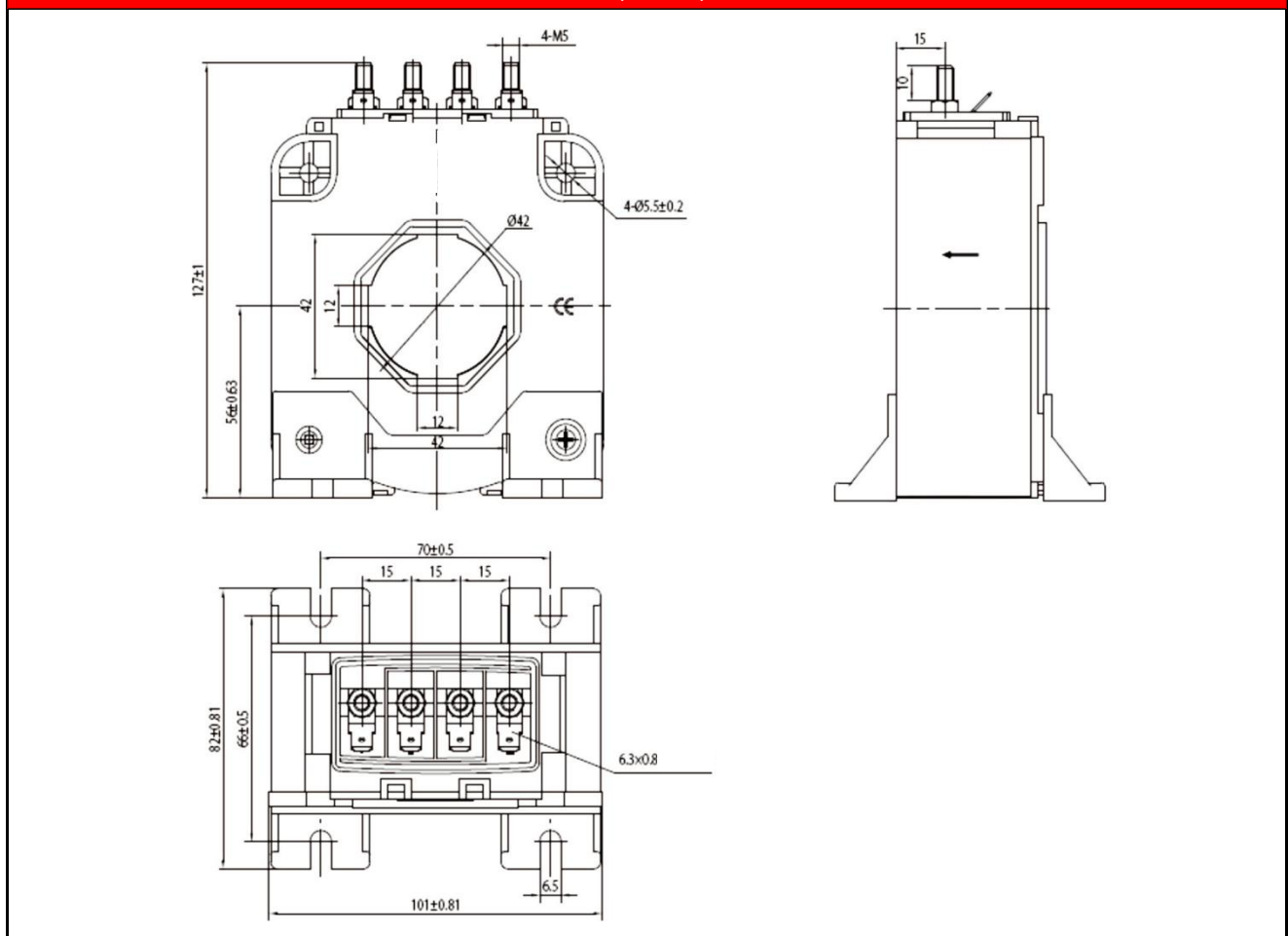
Accuracy - Dynamic performance data		
δ_i (@ I_{PN} , $T_A=25^\circ\text{C}$)	Overall Accuracy	≤±0.4%
δ_L (@ I_{PN} , $T_A=25^\circ\text{C}$)	Linearity error	<0.1%

I_O (@ $I_P=0$, $T_A=25^\circ\text{C}$)	Offset current	$\leq \pm 0.5\text{mA}$
I_{OT}	Thermal drift	$\leq \pm 1\text{mA}$ ($-40^\circ\text{C} \sim +85^\circ\text{C}$)
t_r	Response time to 90% of I_{PN} step	$\leq 1\mu\text{s}$
di/dt	di/dt Accurately followed	$> 100\text{A}/\mu\text{s}$
BW	Frequency bandwidth(-1dB)	DC..100kHz

General data

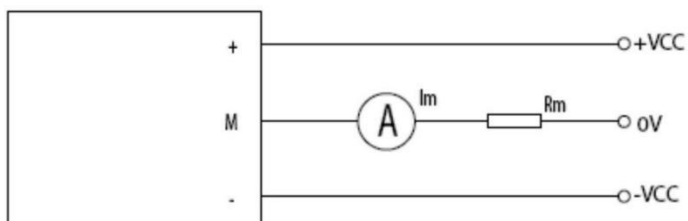
T_a	Ambient operating temperature	$-40^\circ\text{C} \sim +85^\circ\text{C}$
T_s	Ambient storage temperature	$-45^\circ\text{C} \sim +90^\circ\text{C}$
D_{CI}	Clearance distance mm	45
D_{CP}	Creepage distance mm	64
	CTI	> 175
	Mass	$\leq 900\text{g}$

Dimensions (in mm)



Connection

Connection of secondary: 4 M5 threaded studs



Mechanical characteristics		Remark
General tolerance	$\pm 1 \text{ mm}$	1、The sensor output I_{PN} is positive when I_P flows in the direction of the arrow. 2、Shielded wire recommended for secondary connection, cable shielding layer close to the terminals can be connected to housing, negative power terminal or GND.
Transducer fastening (Recommended)	4 hole $\varnothing 6.5\text{mm}$ 4 screws M6	
Recommended fastening torque	4.5 N • m	
Bus bar(Recommended)	$\varnothing 42\text{mm}$	
Connection of secondary	4 M5 threaded studs Faston 6.3×0.8	
Recommended fastening torque	2.2 N • m	