

Voltage Transducer

Applications

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

Insulated plastic case made of PC recognized according to UL94-V0

Galvanic isolation between primary and secondary circuit

Hall effect measuring principle



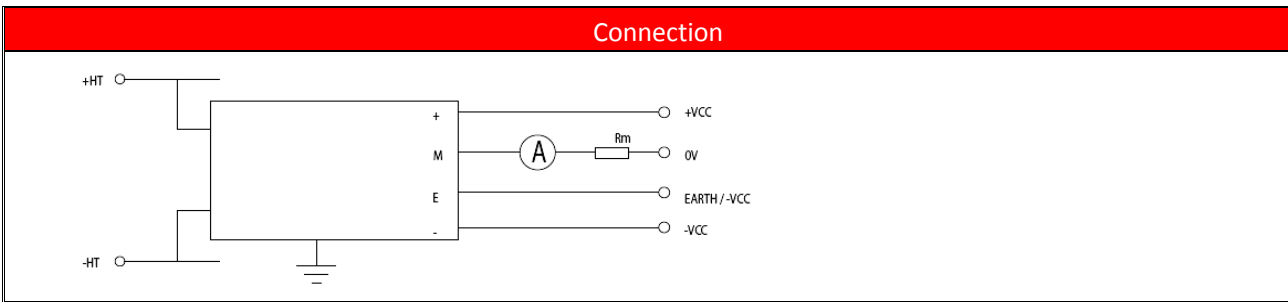
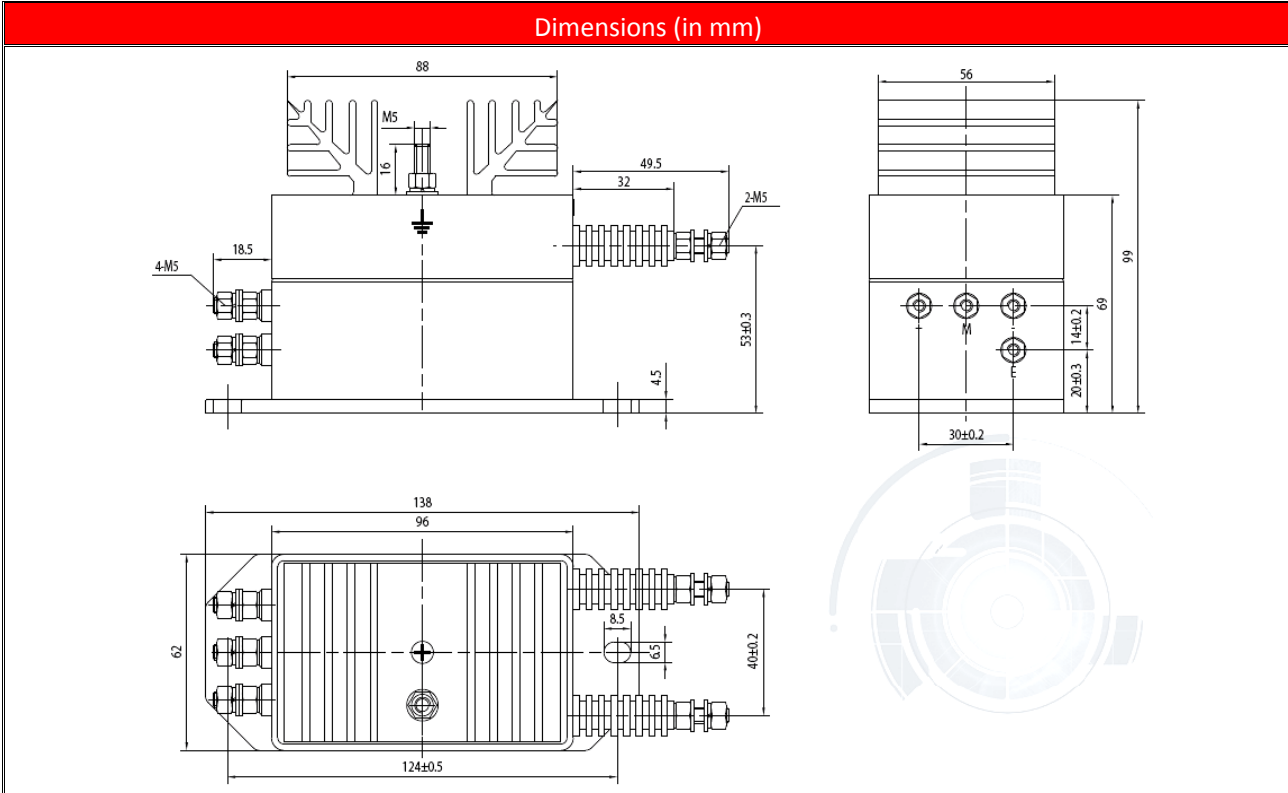
Advantages	Applications	Standards
Excellent accuracy	AC variable speed drives	EN50178
Very good linearity	Battery supplied applications	EN50155
Low temperature drift	converter /inverter	
Wide frequency bandwidth	UPS/SVG	
Optimized response time		

Main electrical data		
V_{PN} (V)	Primary nominal voltage rms	4000
V_P (V)	Primary voltage measuring range	0~±6000
V_C (V)	Supply voltage	+/-15V~+/-24V (1±10%)
I_{SN} (mA)	Secondary nominal current rms	50mA
R_M (Ω)	Measuring resistance	@15V 0Ω 100Ω @24V 60Ω 200Ω
I_C (@±24V)	Current consumption	≤30mA+ Secondary output current I_{SN}
	Isolation test: Between the primary circuit to the secondary circuit	12 kVrms/50Hz/1min

Accuracy - Dynamic performance data		
δ_i (@ I_{PN} , $T_A=25^\circ C$)	Overall Accuracy	≤±0.7%
δ_L (@ I_{PN} , $T_A=25^\circ C$)	Linearity error	<0.2%
I_O (@ $I_P=0$, $T_A=25^\circ C$)	Offset current	≤±0.2mA
IOT	Thermal drift	≤±0.6mA (-25°C~+70°C)
t_r	Response time to 90% of I_{PN} step	≤200us

dv/dt	dv/dt Accurately followed	> 100V/us
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General data		
Ta	Ambient operating temperature	-25°C~+70°C
Ts	Ambient storage temperature	-45°C~+90°C
m	Mass	≤850g



Mechanical characteristics	Remark
General tolerance ± 1 mm	1. When measuring the current direction of arrow mark on direction and sensor, the

<p>Transducer fastening (Recommended)</p> <p>fastening torque</p>	<p>2 hole $\varnothing 6.5\text{mm}$ 2 M6 steel screws 4.5N</p>	<p>Primary connection</p> <p>Primary fastening torque</p>	<p>2. sensor output ISN is positive.</p> <p>Product secondary side connecting line optimization shielding wire, cable shielding layer close to the product end can connect chassis, negative power or power 0 v.</p> <p>3. Power sensor mounting screw hole of the vertical degree requirements: requirements in the national standard grade 8 or above (or below 0.06).</p>
<p>Secondary connection</p> <p>Secondary fastening torque</p>	<p>M5 steel screws 2.2N</p> <p>M5 steel screws 2.2N</p>	<p>4. Sensor mounting</p> <p>(a). Planeness national standard installation grade 11 or above (or surface fluctuation is less than 0.25 mm);</p> <p>(b). When mounting surface with a small round convex platform design flatness requirement of national standard grade 12 or more (or less than 0.5 mm) in plane ups and downs;</p> <p>5. 1mm; Did not note the tolerance + / - 1 mm;</p>	