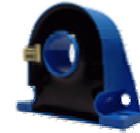


HCCL12 Series

For the electronic measurement of currents : DC, AC, pulsed, mixed, with a galvanic isolation between the primary (high power)circuit and the secondary (electronic) circuit.



Operating performance (AT =25 °C)

Part No.		HCCL12-101-11			HCCL12-201-11			HCCL12-301-11		
Performance										
Primary nominal r.m.s. current	I_{PN} (A)	100			200			300		
Primary current measuring range	I_P (A)	0~±150			0~±300			0~±500		
Secondary nominal r.m.s. current	I_{SN}	50mA			100mA			150mA		
Measuring resistance with ±12V with ±15V	R_M		$R_{M \min}$	$R_{M \max}$		$R_{M \min}$	$R_{M \max}$		$R_{M \min}$	$R_{M \max}$
		@±100Amax	0	136Ω	@±200Amax	0	50Ω	@±300Amax	0	30Ω
		@±150Amax	0	74Ω	@±300Amax	0	26Ω	@±500Amax	0	7Ω
		@±100Amax	0	175Ω	@±200Amax	0	73Ω	@±300Amax	0	43Ω
		@±150Amax	0	106Ω	@±300Amax	0	40Ω	@±500Amax	0	17Ω
Conversion ratio	K_N	1:2000								
Supply voltage	V_{CC}	±12~15V (±5%)								
Current consumption	I_C	28mA(@±12V)+ I_S								
Linearity	ϵ_L	≤±0.1% @0~± I_{PN}								
Accuracy @ $I_{PN}, V_C=±15V, T_A=25^\circ C$,	X	±0.6%			±0.5%			±0.5%		
Offset current @ $I_P=0, T_A=25^\circ C$	I_O	< ±0.15mA			< ±0.2mA			< ±0.2mA		
Thermal drift of I_O	I_{OT}	≤±0.64mA/°C (type ±0.2)								
Response time	t_r	< 1μs								
di/dt accurately followed	di/dt	100A/μs								
Hysteresis offset current	I_{OH}	≤±0.1mA @±3 $I_{PN} \rightarrow 0$			≤±0.2mA @±3 $I_{PN} \rightarrow 0$					
Isolation voltage	V_d	6KV @50(60)Hz/1min								
Frequency bandwidth	f	0~100KHz								

General data

Operating temperature	T_A	-25 ~ 85°C								
Storage temperature	T_S	-40 ~ 100°C								
Mass	m	105g			110g			110g		
Note		Insulated plastic case recognized according to UL 94-V0								

Applications

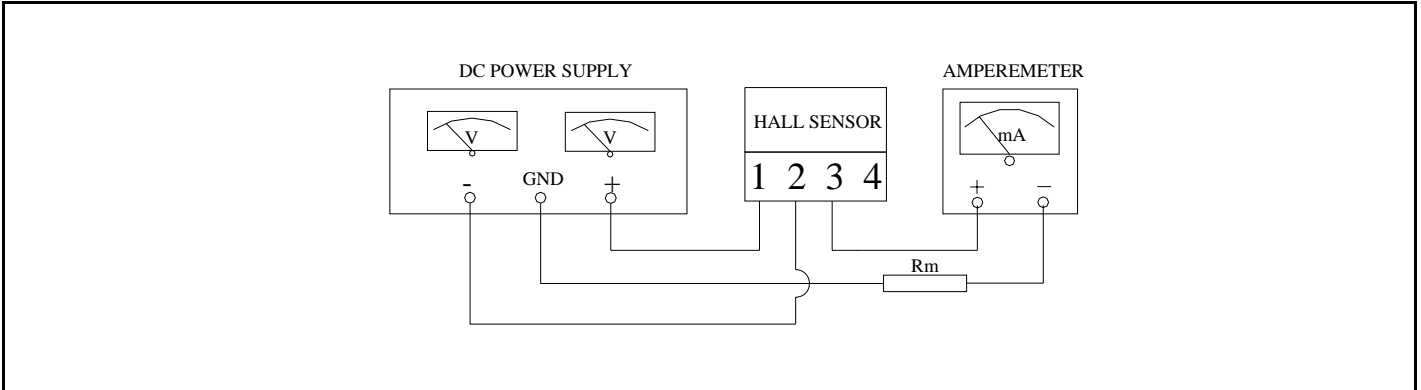
1.AC variable speed drives and servo motor drives	4.Static converters for DC motor drives
2.Battery supplied applications	5.Switched Mode Power Supplies(SMPS)
3.Uninterruptible Power Supplies(UPS)	6.Power supplies for welding applications

Advantages

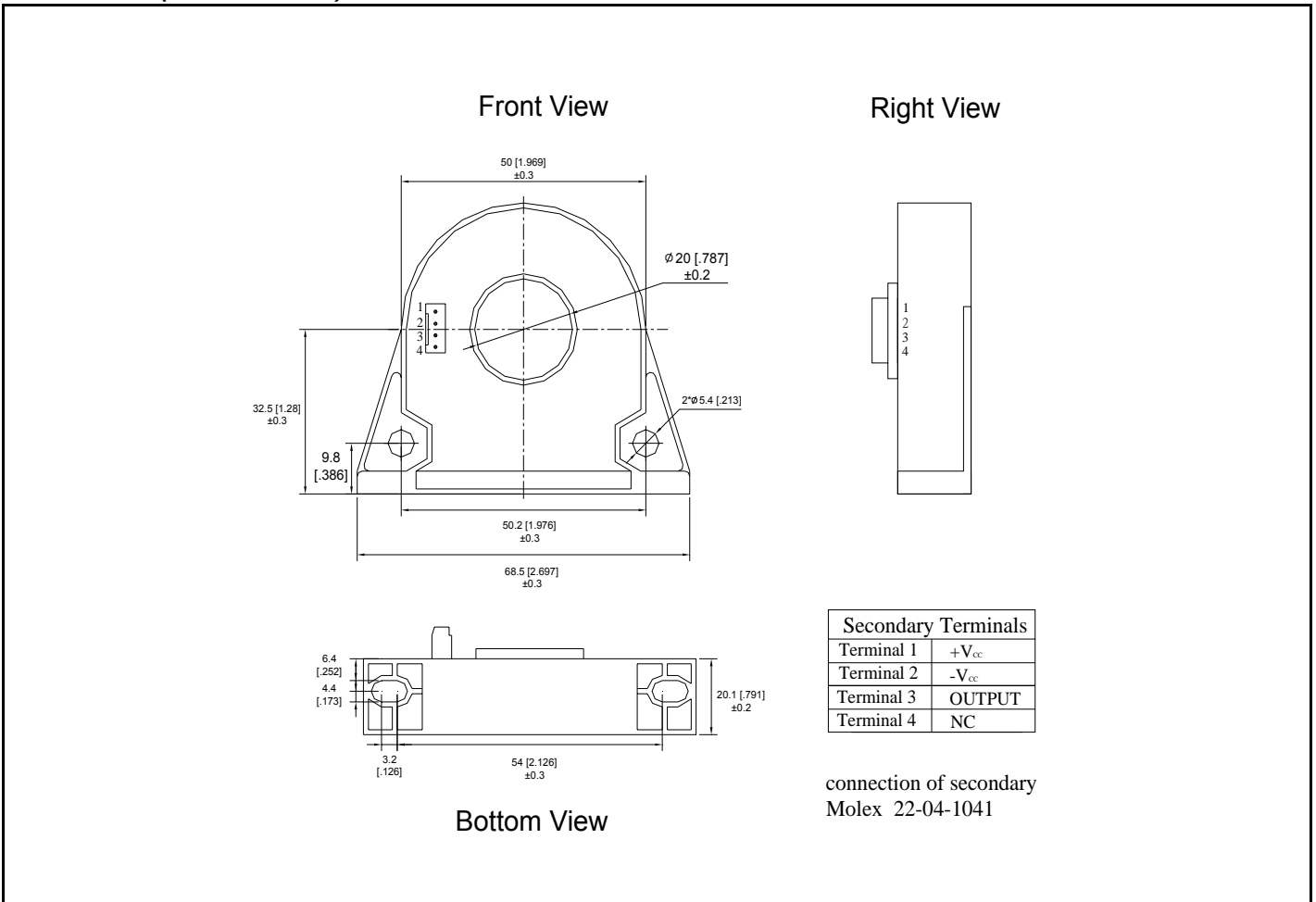
1.Excellent accuracy	5.Very good linearity
2.Low temperature drift	6.Optimized response time
3.Wide frequency bandwidth	7.High immunity to external interference
4.Very low insertion losses	8.Current overload capability

HCCL12 Series

Connection



Dimensions (unit: mm/inch)



Remarks

1. I_{OUT} is positive when I_P flows in the direction of the arrow.
2. Temperature of the primary conductor should not exceed 100 °C.
3. These are standard models. For different versions (supply voltages, secondary connections, unidirectional measurements, operating temperatures, etc.) please contact us.