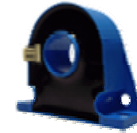


# HCCL12 Series

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	$\epsilon_L$	≤±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

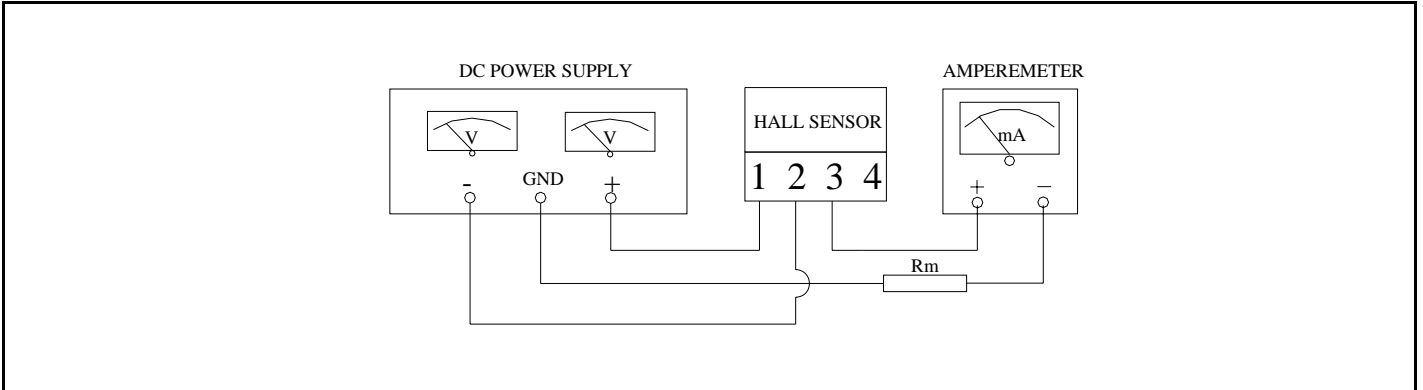
1.AC variable speed drives and servo motor drives	4.Static converters for DC motor drives
2.Battery supplied applications	5.Switched Mode Power Supplies(SMPS)
3.Uninterruptible Power Supplies(UPS)	6.Power supplies for welding applications

## Advantages

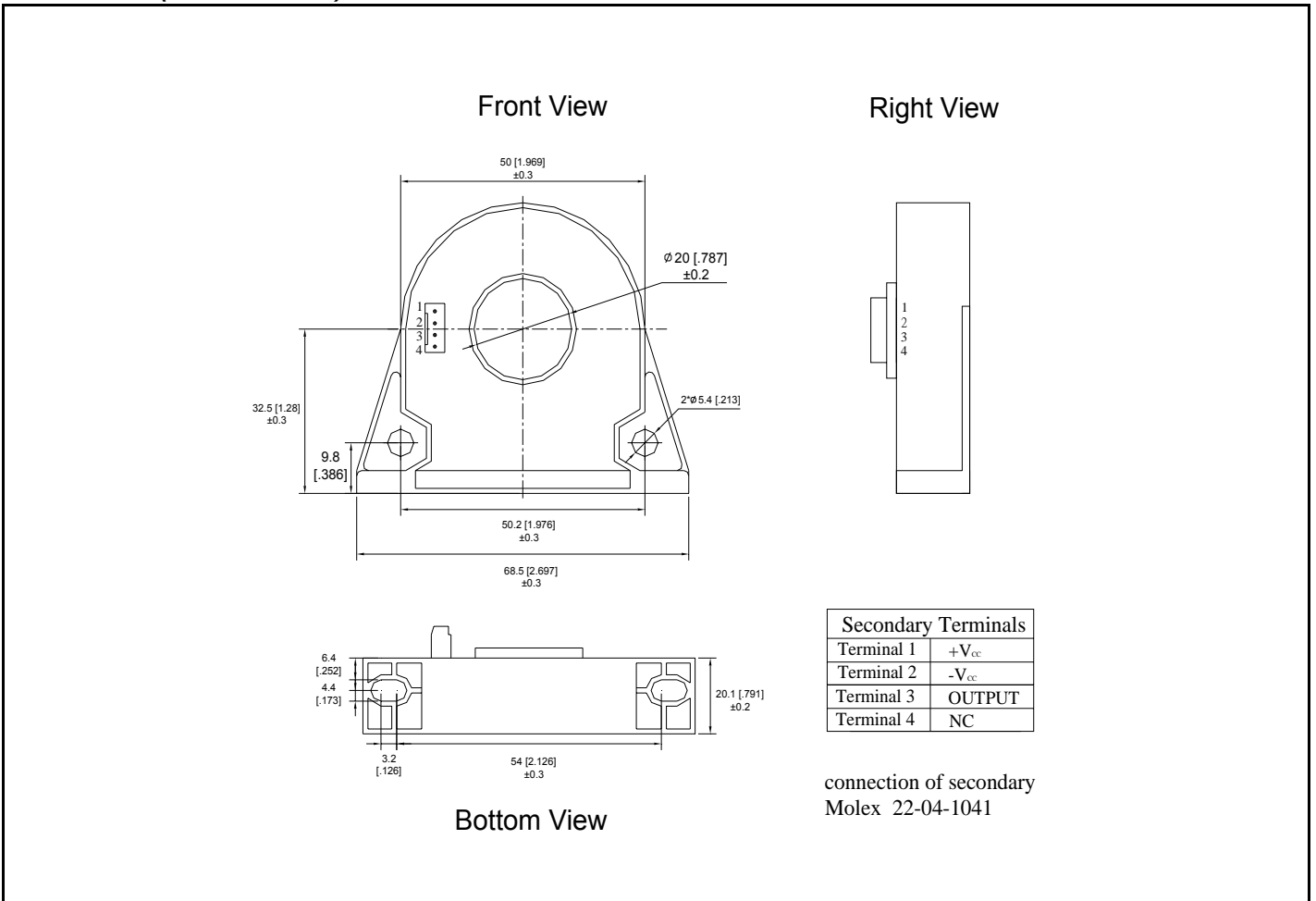
1.Excellent accuracy	5.Very good linearity
2.Low temperature drift	6.Optimized response time
3.Wide frequency bandwidth	7.High immunity to external interference
4.Very low insertion losses	8.Current overload capability

# 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.