

Miniature Current Transformers

Primary Single-Turn (LB1) Series

The series of LB1 Miniature current transformers are designed specifically for integration into products which require exceptionally accurate primary signal transformation while exposed to harsh environmental operating conditions. An internal precision resistor across the secondary winding of the CT provides a low safe voltage output. It can save time and the installation costs.

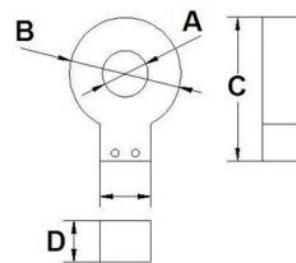
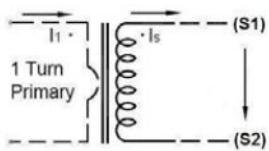
◆ Features

- Primary Single-Turn
- Wide inner window, allowing clamping of big cables or bus-bars
- Wide range of sizes to accommodate all the existing installations

◆ Applications

- Current measurement, monitoring and protection for electrical wiring and equipment.
- Instrumentation, Current and power measurement for electric motors, lighting, air compressor, heating and ventilation system, air-condition equipment and automation – control system.
- Current, power and energy monitoring device.
- Relay protection device.

◆ Circuit connection diagram



◆ Technique Index

Electrical Parameter	
Frequency	50-400Hz
Rated Input	0-250A
Measuring range	5%In-120%In
Rated Output	0-100mA
Ratio	$\leq \pm 0.1\%$
Phase angle	$\leq \pm 5$ 分
Dielectric strength	2.5KV/1mA/1min
Insulation Resistance	DC500V/1000MΩ min

Mechanical Parameter	
Case	PBT /UL94-V0
Bobbin	PBT
Core	Permalloy or Nanocrystalline
Internal structure	Epoxy
Construction	-----
Operating Temp	$-25^{\circ}\text{C} \sim +75^{\circ}\text{C}$
Operating Humidity	$\leq 85\%$
Output Connection	Leads

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◆ Type Selection

Mfg P/N	Rated Input (A)	Ratio	Burden (Ω)	Accuracy	Dimensions (mm/inch)				
					A	B	C	D	
LB1-1071	10A	1000: 1	≤50	0.1、0.2	6.99	17.23	22.0	8.10	
					.275	.678	.866	.318	
	20A		≤100	0.1、0.2	9.0	22.0	27.8	8.4	
					.35	.87	1.09	.33	
	50A		≤100	0.1、0.2	15.0	30.1	36.0	9.2	
					.59	1.18	1.41	.36	
	50A		≤200	0.1、0.2	7.11	23.20	28.95	11.05	
LB1-1091	75A				.280	.913	1.397	.435	
	≤200		0.1、0.2	9.14	26.0	31.8	17.0		
				200A				.354	1.02
	≤200		0.1、0.2	13.08	37.83	43.18	14.0		
				.515	1.489	1.70	.551		
	250A		≤200	0.1、0.2	19.0	47.6	60.0	17.6	
					.748	1.874	2.360	.692	

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