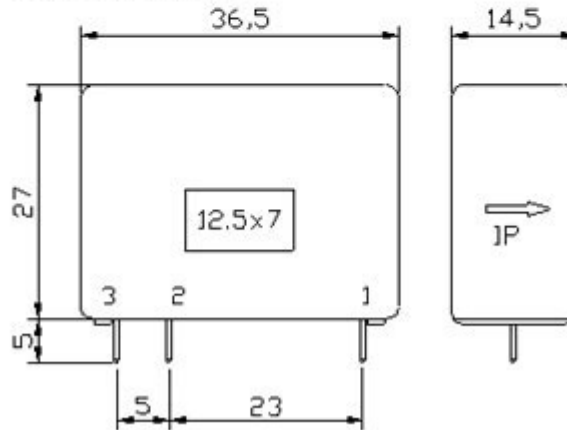


CSM100LA Hall-Effect Current Sensor Series



Outline Drawing (mm):



Product Information

Introduction: CSM100LA Series is a new generation of closed-loop current sensor based on the principle of Hall effect. The current is highly insulated between input and output loops. It is applicable for the measuring of DC, AC, pulse and complex waveform current with galvanic isolation.

Electric Parameters:

	CSM050LA	CSM100LA	
IPN Nominal Input Current	50	100	A
IP Measurement Range of Input Current	75	150	A
VSN Nominal Output Voltage		50	mA
- Turns Ratio	1: 1000	1: 2000	
RM Measuring Resistance	RM min	RM max	
with ±15V @ ±50A max	20	80	Ω
@ ±75A max	13	54	Ω
with ±15V @ ±100A max	10	40	Ω
@ ±150A max	6.5	27	Ω
VC Supply Voltage		±12~±15	DC V
IC Current Consumption		10+IS	mA
Vd Insulation Voltage		2.5 KV AC/50Hz/1min	

Parameters on Dynamic EI Linearity < 0.15 %FS

Performance : X Precision @ IPN TA=25°C ±0.7%

Typical Value Max. Value

IO Offset Current @IP = 0 TA = 25°C	±0.05	±0.15	mA
IOM Residual Current @IP = 0, After Overload 3 × IN	±0.10	±0.35	mA
IOT Offset Current Warm-up Drift	0°C~25°C	±0.06 ±0.1	mA
	25°C~70°C	±0.25	±0.35 mA
Tr Response Time		2	μs
F Bandwidth (-3dB)		50	KHz

General Parameters: TA Operation Temperature 0~+70 °C
 TS Storage Temperature -25~+85 °C
 RS Secondary Internal Resistance@ TA max 40 Ω

External Structure: 1: +15V 2: -15V 3: I0

Please refer to the picture above for detailed parameters

Features: Excellent precision, fine linearity, interference resistant

Convenient PCB installation

Low warm-up drift

Overcurrent capability

Applications: Traction of AC Frequency Conversion, Servo Motors

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The monitoring of input, output and DC filter voltages of Current Monitoring of Electric Welders
UPS, Switching Power Supplies