

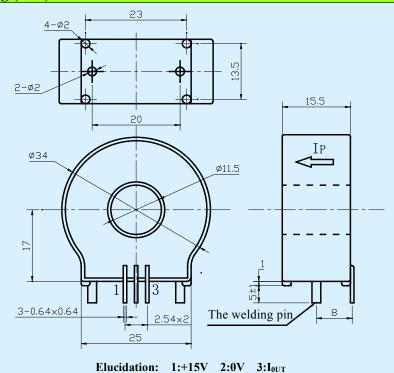
CSM100EE Hall-effect Current Sensor Series



Closed loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

Electrical characteristics						
	Туре	CSM025EE	CSM040EE	CSM075EE	CSM100EE	
I_{PN}	Primary nominal input current	25	50	75	100	A
I_P	Measuring range of primary current	0~±37.5	0~±75	0∼±112.5	0∼±150	A
Isn	Secondary nominal output current	25	25	37.5	50	mA
$\mathbf{K}_{\mathbf{N}}$	Conversion ratio	1:1000	1:2000	1:2000	1:2000	
$\mathbf{R}_{\mathbf{M}}$	Measuring resistance (V _C =±15V)	0-495	0-470	0-290	0-205	Ω
V_{C}	Supply voltage	±15(±5%)				V
I_{C}	Current consumption	10+I _S				mA
V_{D}	Insulation voltage	AC/50Hz/1min 2.5				kV
$\epsilon_{ m L}$	Linearity	<0.1				%FS
X	Accuracy	T _A =25℃ <±0.8				%
Io	Zero offset voltage	$T_A=25$ °C ± 0.02				mA
I _{OM}	Residual current	I _P →0 <±0.02				mA
Iot	Thermal drift of I ₀	$I_{P}=0$ $T_{A}=-25\sim+85^{\circ}C$ <±0.005				mA/℃
T_R	Response time	<1				us
f	Frequency bandwidth(-1dB)	DC~100				kHz
TA	Ambient operating temperature	-25~+85				ပ
Ts	Ambient storage temperature	-40~+100				ದೆ
Rs	Secondary coil resistance(T _A =25°C)	35	60	60	60	Ω
m	Mass	25				g
	Standard	Q/320115QHKJ01-2013				

Dimensions of drawing (mm)



Remarks

- ·Incorrect connection may lead to the damage of the sensor.
- · I_{SN} is positive when the I_P flows in the direction of the arrow.
- .R_M is in the measurement of DC current. If the measurement of AC current, R_M is reduced to 70%.