

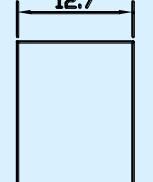


CSM025AY Hall-effect Current Sensor Series



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				
	Type	CSM025AY		
I _{PN}	Primary nominal input current		25	A
I _P	Measuring range of primary current		0~±36	A
I _{SN}	Secondary nominal output current		25	mA
K _N	Conversion ratio	1-2-3-4:1000		
R _M	Measuring resistance (V _C =±15V)	I _P =±25A 54~360	I _P =±36A 68~190	R _M
V _C	Supply voltage	±12~±15(±5%)		
I _C	Current consumption	V _C =±15V	10+Is	mA
V _D	Insulation voltage	AC/50Hz/1min	2.5	kV
ε _L	Linearity		<0.2	%FS
X	Accuracy	T _A =25°C V _C =±15V	<±0.7	%
I _O	Zero offset current	T _A =25°C	<±0.15	mA
I _{OM}	Residual current	I _P →0	<±0.15	mA
I _{OT}	Thermal drift of I ₀	I _P =0 T _A =-25~+70°C	<±0.5	mA
T _R	Response time		<1	μs
f	Frequency bandwidth(-1dB)	DC~100		
T _A	Ambient operating temperature	-25~+70		
T _S	Ambient storage temperature	-40~+100		
R _P	Primary coil resistance	T _A =25°C	≤1.25	mΩ
R _S	Secondary coil resistance	T _A =70°C	40	Ω
R _{IS}	Isolation resistance	T _A =25°C	≥1500	MΩ
	Standard	O/3201CHGL02-2007		

Dimensions of drawing (mm)		Connection			
					
					
Conversion ratio	I _{PN} (A)	I _P (A)	I _{SN} (mA)	Primary connection	
1:1000	25	36	25	8○○○○50UT IN1○○○○4	
2:1000	12	18	24	8○○○○50UT IN1○○○○4	
3:1000	8	12	24	8○○○○50UT IN1○○○○4	
4:1000	6	9	24	8○○○○50UT IN1○○○○4	

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.