

MCSM300E Hall-effect Current Sensor Series

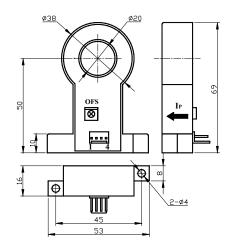
Closed loop current sensor based on the principle of Hall-effect. It can be used for

measuring AC,DC,pulsed and mixed current.



	Туре	MCSM050E	MCSM0100E	MCSM200E	MCSM0300E	
I _{PN}	Primary nominal input current	50	100	200	300	Α
I _P	Measuring range of primary current	0~±75	0~±150	0~±300	0~±350	Α
I _{SN}	Secondary nominal output current	25	50	100	150	mA
K _N	Conversion ratio	1:1000	1:1000	1:2000	1:2000	
R _M	Measuring resistance (V _C =±15V/I _{PN})	200(max)	200(max)	80(max)	50(max)	Ω
Vc	Supply voltage	±15(±5%)				V
lc	Current consumption	$V_C = \pm 15V$ 10+Is				mA
V _D	Insulation voltage	AC/50Hz/1min 3				KV
εL	Linearity	<0.1				%FS
Х	Accuracy	T _A =25℃	Γ _A =25℃ <±0.7			%
lo	Zero offset current	T _A =25°C <±0.25			mA	
Іом	Residual current	I _P →0 <±0.2				mA
Іот	Thermal drift of I ₀	I _P =0 T _A =-25~+85℃ <±0.5				mA
T _R	Response time	<1				us
di/dt	di/dt accurately followed	>100				KHZ
f	Frequency bandwidth(-3dB)	DC~100				$^{\circ}\!\mathbb{C}$
T _A	Ambient operating temperature	-25~+85				$^{\circ}\!\mathbb{C}$
Ts	Ambient storage temperature	-40~+100				Ω
Rs	Secondary coil resistance(T _A =25 °C)	12.5	12.5	27.5	27.5	g
m	Mass	43				
	Standard	Q/320115QHKJ01-2013				

Dimensions of drawing (mm)



Elucidation: 1:+15V 2:-15V 3: I_{0UT} 4:0V OFS:Zero adjustment

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.
- Dynamic performance (di/dt and response time) are best with a primary bar in the center of the through-hole.

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