



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	ASC300X-LTB		ASC500X-LTB		
I _{PN}	Primary nominal input current	300		500		A
I _P	Measuring range of primary current	0~±500		0~±800		A
I _{SN}	Secondary nominal output current	100±0.5%		100±0.5%		mA
K _N	Conversion ratio	1:3000		1:5000		
R _M	Measuring resistance (V _C =±15V)	I _{PN} =±300	0~95	I _{PN} =±300	0~62	Ω
	(V _C =±15V)	I _{PN} =±500	0~40	I _{PN} =±300	0~11	Ω
	(V _C =±15V)	I _{PN} =±300	0~122	I _{PN} =±300	0~88	Ω
	(V _C =±15V)	I _{PN} =±500	0~58	I _{PN} =±300	0~30	Ω
V _C	Supply Voltage	±15~±18(±5%)				V
I _C	Current Consumption	V _C =±15V		28+I _S		mA
V _D	Insulation Voltage	AC/50Hz/1min		6		kV
E _L	Linearity	<0.1				%FS
X	Accuracy	T _A =25 ^o C		<±0.7		%
I ₀	Zero offset current	T _A =25 ^o C		<±0.25		mA
I _{OM}	Residual Current	I _P =0		<0.2		mA
I _{OT}	Thermal Drift of I ₀	I _P =0	T _A =-25~85 ^o C	<±0.5		mA
T _R	Response Time	<1				μs
Di/Dt	Di/Dt accurately followed	>100				A/μs
F	Frequency Bandwidth (-3dB)	DC~100				kHz
T _A	Ambient Operating Temperature	-25~+85				°C
T _S	Ambient Storage Temperature	-40~+100				°C
R _S	Secondary Coil Resistance (T=25 ^o C)	36		64		Ω
	Special range	Other intermediate input ranges available on request				

[illegible]

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.