AMELEC SIGNAL CONDITIONING

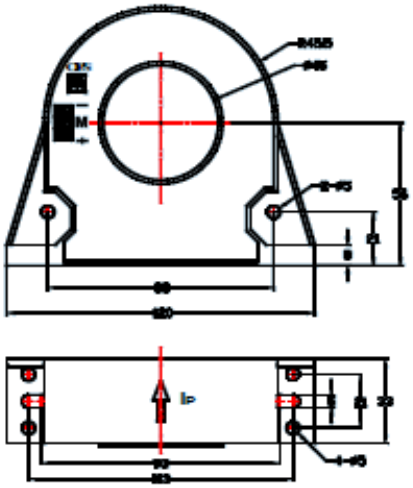
ASC1000X-LTC 1000A/0.2A Current Transducer

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

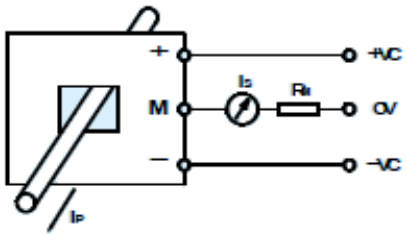
Electrical characteristics

	Type	ASC1000X-LTC	
I_{PN}	Primary nominal input current (rms)	1000	A
I_P	Measuring range of primary current (DC)	0~±2000	A
I_{SN}	Secondary nominal output current	200	mA
K_N	Conversion ratio	1:5000	
R_M	Measuring resistance (V_C=±15V)	V_C=±15V I_p=±1000	0~30	Ω
	(V_C=±15V)	V_C=±15V I_p=±1200	0~20	Ω
	(V_C=±18V)	V_C=±24V I_p=±1000	0~75	Ω
	(V_C=±18V)	V_C=±24V I_p=±2000	0~15	Ω
V_C	Supply Voltage	±15~±24(±5%)	V
I_C	Current Consumption	V_C=±24V	18+I_S	mA
V_D	Insulation Voltage	AC/50Hz/1min	6	kV
E_L	Linearity	<±0.1	%FS
X	Accuracy	T_A=25°C	<±0.7	%
I_0	Zero offset current	T_A=25°C	<±0.25	mA
I_{0T}	Thermal Drift if I_0	I_P=0 T_A=-25~85°C	<±0.005	mA/°C
T_r	Response Time	90% I_{PN}	<1	μs
Di/Dt	Di/Dt accurately followed	>100	A/ μs
F	Frequency Bandwidth (-1dB)	DC~100	kHz
T_A	Ambient Operating Temperature	-25~+85	°C
T_S	Ambient Storage Temperature	-40~+100	°C
R_S	Secondary Coul Resistance (T_A=25°C)	37	Ω
	Standard	Other intermediate input ranges available on request	

Dimensions of drawing (mm)



Connection



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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