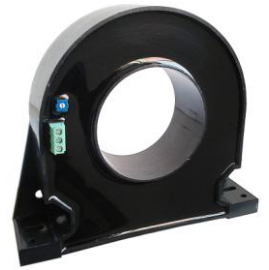


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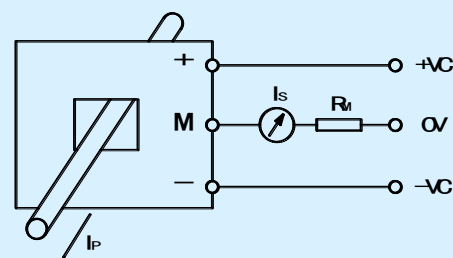
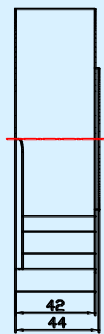
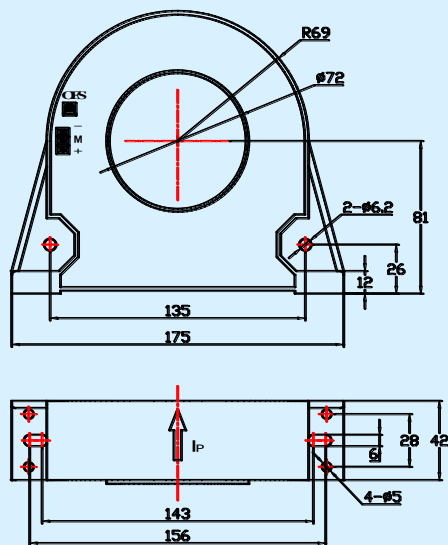
# CSM2000LTE Hall-effect Current Sensor Series



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	CSM2000LTE		
$I_{PN}$	Primary nominal input current(rms)	2000		A
$I_P$	Measuring range of primary current(DC)	0~±3000		A
$I_{SN}$	Secondary nominal output current	400±0.25%		mA
$K_N$	Conversion ratio	1:5000		
$R_M$	Measuring resistance ( $V_C=±15V$ )	$V_C=±15V$ $I_P=±2000$	0~8	$\Omega$
		$V_C=±15V$ $I_P=±2200$	0~5	$\Omega$
		$V_C=±18V$ $I_P=±2000$	5~29	$\Omega$
		$V_C=±18V$ $I_P=±3000$	5~11	$\Omega$
$V_C$	Supply voltage	±15~±24(±5%)		V
$I_C$	Current consumption	$V_C=±24V$	28+ $I_S$	mA
$V_D$	Insulation voltage	AC/50Hz/1min	6	kV
$\epsilon_L$	Linearity			%FS
X	Accuracy	$T_A=25^\circ C$	<±0.7	%
$I_0$	Zero offset current	$T_A=25^\circ C$	<±0.25	mA
$I_{OT}$	Thermal drift of $I_0$	$I_P=0$ $T_A=-25\sim+85^\circ C$	<±0.005	mA/°C
$T_r$	Response time	90% $I_{PN}$	<1	$\mu s$
di/dt	di/dt accurately followed			A/ $\mu s$
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 coil resistance( $T_A=25^\circ C$ )	25		$\Omega$
	Standard	Q/320115QHKJ01-2010		

## Dimensions of drawing (mm) Connection



CFS: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.