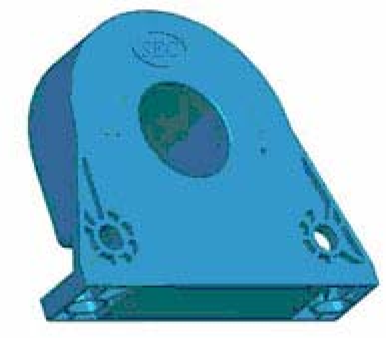


I_{PN} = 100…300A

Features

- Hall effect measuring principle
- Galvanic isolation between primary and secondary circuit
- Low power consumption
- Extended measuring range
- Insulated plastic case recognized according to UL 94-V0

Advantages

- Very good linearity
- Excellent accuracy
- Low temperature drift
- Wide frequency bandwidth
- Optimized response time
- No insertion losses
- High immunity against external Interference
- Excellent performance and price

Industrial applications

- AC variable speed drives
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Power supplies for welding applications
- Static converters for DC motor drives
- Switched-Mode Power Supplies (SMPS)

TYPES OF PRODUCTS

Type	Primary nominal current r. m. s I_{PN} (A)	Primary current measuring range I_P (A)	Measuring resistance R_M (Ω)	
SICF3SV2	100	0~±150	0~187	with±15V@±100Amax
			0~112	with±15V@±150Amax
SICF3SV2	200	0~±300	0~80	with±15V@±200Amax
			0~42	with±15V@±300Amax
SICF3SV2	300	0~±500	0~40	with±15V@±300Amax
			0~13	with±15V@±500Amax

General Description

For the electronic measurement of currents: DC, AC, pulsed, mixed, with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit)

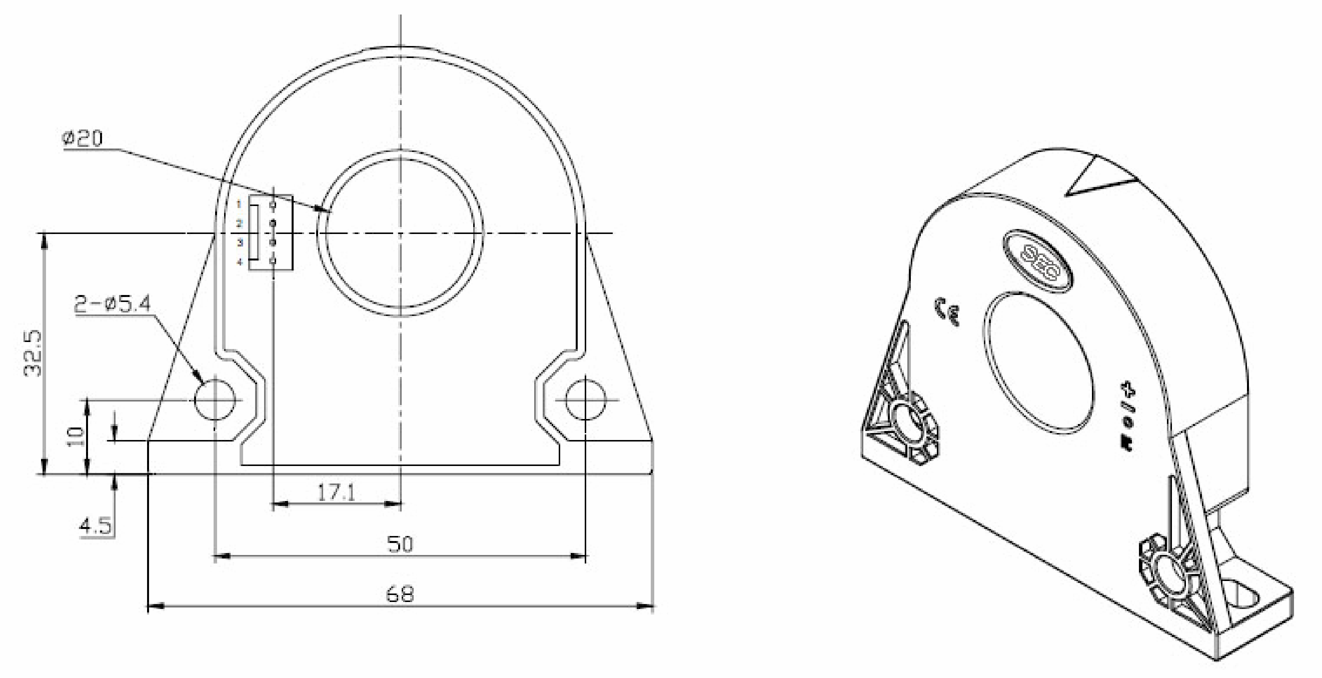
Parameters Table

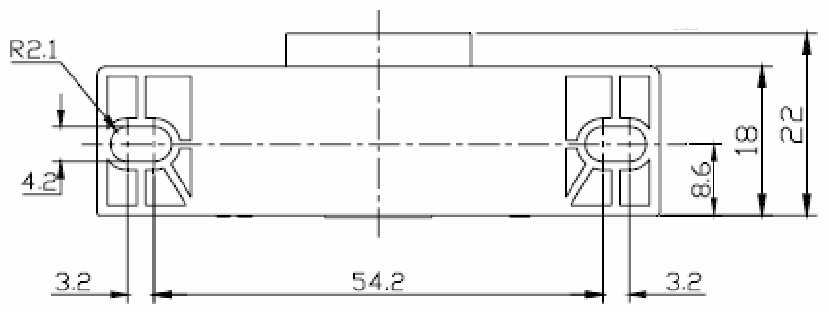
PARAMETERS	SYMBOL	UNIT	VALUE	CONDITIONS
		Electrical data		
Supply voltage(±5%)	V_C	V	±15	
Current consumption	I_C	mA	$22+I_s$	
			50	I_{PN}=100A
Secondary nominal r.m.s. current	I_{SN}	mA	100	I_{PN}=200A
			150	I_{PN}=300A
Conversion ratio	K_N		1:2000	
R. m. s voltage for AC isolation test	V_d	KV	6	@50Hz, 1 min
		Accuracy - Dynamic performance data		
Linearity	ε_L	%	<±0.1	
Accuracy	X_G	%	<±0.5	@ I_{PN} , T_A = 25°C
Offset current	I_O	mA	<±0.2	@ I_P = 0,T_A = 25°C
Thermal drift of Io	I_{OT}	mA	±0.6	@ I_P = 0,-10～+70°C
Response time	t_r	µS	<1	@ 90% of I_{PN} step
di/dt accurately followed	d_i/dt	A/µS	>100	
Frequency bandwidth (1)	BW	kHz	DC~100	@-3dB
		General data		
Ambient operating temperature	T_A	℃	-40 ~ +85	
Ambient storage temperature	T_S	℃	-40 ~ +105	
Secondary coil resistance	Rs	Ω	28	@ T_A = 70°C

Notes:

1) Please refer to derating curves in the technical file to avoid excessive core heating at high frequency.

Dimensions SICF3SV2 (in mm. 1 mm = 0.0394 inch)





Pins Arrangement

1:+15V
2:−15V
3:0
4:NC

Instructions of use

1) When the test current passes through the sensor, you can get the size of the output current. (Warning: wrong connection may lead to sensors damage.)
2) According to user needs, different rated input currents and output currents of the sensors can be customized.

RESTRICTIONS ON PRODUCT USE

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