



Part number: SV3

Electric Data

Primary nominal volatge (V_{pn})	$\pm 4000V$		
Primary voltage measuring range (I_p , Amp)	$0 \text{---} \pm 6000A$		
Primary nominal current RMS (I_{pn})	2.5mA		
Measuring resistance	Rmin	Rmax	
	@ $\pm 4000V$ 15V	0	180 Ω
	@ $\pm 6000V$ 15V	0	100 Ω
	@ $\pm 4000V$ 24V	100 Ω	340 Ω
@ $\pm 6000V$ 24V	100 Ω	205 Ω	
Secondary nominal current RMS	50mA		
Conversion ratio	4000V/50mA		
Coil turns ratio	40000:2000		
Auxiliary supply voltage	$\pm 15 \dots \pm 24V$		
Current consumption	30mA (@24V) +Ioutput		

Accuracy-Dynamic performance Data

Overall accuracy @ V_{pn} , @25 °C	$\leq \pm 1\%$
Linearity error	$< 0.1\%$
Offset current @ $I_p=0$, @25 °C	$< \pm 0.2\text{mA}$
Temperature drift@ $I_p=0$, @-25°C...70°C	$\pm 0.4\text{mA}$ (Typical) $\pm 0.6\text{mA}$ (Max)
@-40°C...85°C	$\pm 1\text{mA}$ (Max)
Response time @90%* V_{pn} ,	$< 200\mu\text{s}$

General Data

Ambient operating temperature T_a	-40°C.. +85°C
Ambient storage temperature T_s	-40°C.. +90°C
Total primary power loss	10W
Primary resistance @25 °C	1.6M Ω
Secondary coils resistance @85°C	60 Ω
Mass	820g
Housing	PA66+GS15%
Standard	EN50155: 2001

