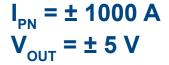


Current Transducer HAR 1000-S

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











Electrical data

I_{PN}	Primary nominal current rms	± 1000	Α
I _{PM}	Primary current, measuring range @ V _C = ± 15V	± 2500	Α
V _C	Supply voltage (± 5 %)	± 15	V
I _c	Current consumption	< ± 20	mΑ
R _{IS}	Isolation resistance @ 500 VDC	> 500	$M\Omega$
V _{OUT}	Output voltage (Analog) @ $\pm I_{PN}$, $R_L = 10k\Omega$, $T_A = 25^{\circ}C$	± 5	V
R_{OUT}	Output internal resistance	< 100	Ω
V _b	Rated isolation voltage rms	≥ 2.1	kV
V _d	Rms voltage for AC isolation test, 50Hz, 1min	≥ 7	kV
R _i	Load resistance	≥ 10	kΩ
V _e	Partial discharge extinction voltage rms @ ≤ 10pC	≥ 3.6	kV

Accuracy - Dynamic performance data

of I _{PN}
mV
mV
mV
of I _{PN}
μs
kHz
I I O

General data

$T_{_{A}}$	Ambient operating temperature	- 40 + 70°0	С	
T _s	Ambient storage temperature	- 40 + 85°C	С	
m	Mass	400	g	
dCp	Creepage distance	≥ 26 mr	n	
dCl	Clearance	≥ 19 mr	n	
	Standards	EN 50155: 2007	EN 50155: 2007	

Features

- Hall effect measuring principle
- Galvanic isolation between primary and secondary circuit
- Isolation voltage 7000V
- Extended measuring range
- Isolated plastic case recognized according to UL 94-V0

Advantages

- Easy installation
- Small size and space saving
- High immunity to external interference
- Low power consumption

Applications

• Train

Application domain

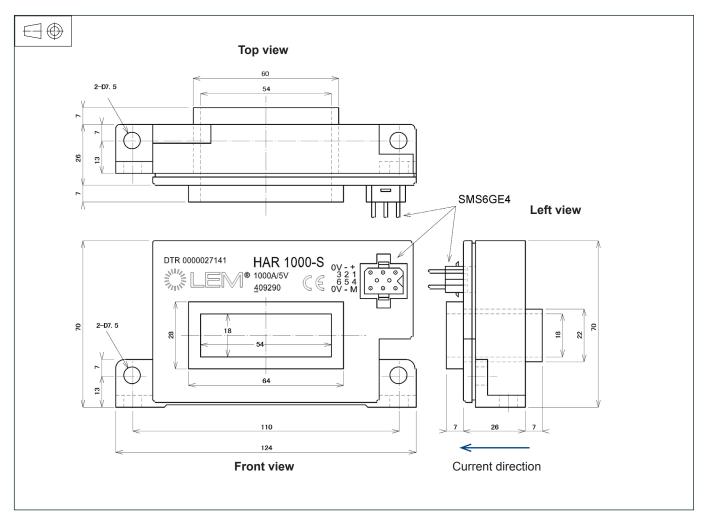
Traction

Note: 1) Basic insulation, overvoltage category III, pollution degree 2.

²⁾ Accuracy data exclude the electrical offset.



Dimensions HAR 1000-S (in mm.)



Secondary pins Identifiction

Pin 1: +15V
Pin 2: -15V
Pin 3: 0 V
Pin 4: Output
Pin 5: -15V
Pin 6: 0 V

Mechanical characteristics

General tolerance ± 1.0 mm
 Fastening 4 x Ø 7.5 mm
 Fastening torque Max 6.2 Nm
 Aperture 54 mm x 18 mm
 Connection of secondeary Burndy SMS6GE4

Remark

 The primary bus bar temperature should not exceed 100°C