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## **Current Transducer HAW 07-P**

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).

## Preliminary

Electri	cal data			
Primary nomina r.m.s. current I <sub>PN</sub> (A)	al Primary current measuring range I <sub>P</sub> (A)	Primary Conductor Diameter (mm)	Туре	
7.5	± 19	1.1	HAW 07-P	
V <sub>c</sub> I <sub>c</sub> V <sub>d</sub>	Supply voltage (± 5 %) Current consumption		± 15 <± 18	V mA
v d	R.m.s. voltage for AC isolat	ion test, 50/60Hz, 1 m		kV
R <sub>is</sub>	Isolation resistance @ 500	VDC	> 500	MΩ
V <sub>OUT</sub>	Output voltage @ $\pm I_{PN}$ , R =	<sup>:</sup> 10 kΩ, <b>T</b> <sub>A</sub> = 25°C	±4	V
R <sub>out</sub>	Output internal resistance	<i>n</i>	100	Ω
R	Load resistance		>10	kΩ

Acc	uracy-Dynamic performance data		
х	Accuracy @ $I_{PN}$ , $T_{A} = 25^{\circ}C$ (without offset)	< ± 1	% of $I_{_{\rm PN}}$
e,	Linearity $(0 \dots \pm I_{PN})$	< ± 1	% of I
е V <sub>ое</sub> V <sub>он</sub>	Electrical offset voltage, $T_{A} = 25^{\circ}C$	< ± 40	mV
V	Hysteresis offset voltage $\hat{\mathbf{Q}} \mathbf{I}_{p} = 0$ ;		
OIT	after an excursion of 1 x I	< ± 20	mV
V <sub>ot</sub>	Thermal drift of $V_{OF}$ max.	± 1.5	mV/K
TČ <b>e</b>	Thermal drift of the gain (% of reading)	± 0.1	%/K
t,	Response time @ 90% of Ip	< 3	μs
f	Frequency bandwidth (- 3 dB) <sup>1)</sup>	DC 50	kHz

General data				
T <sub>A</sub>	Ambient operating temperature	- 10 + 75	°C	
T <sub>s</sub>	Ambient storage temperature	- 15 + 85	°C	
m	Mass	12	g	

### Features

- Hall effect measuring principle
- Galvanic isolation between primary and secondary circuit
- Isolation voltage 2000 V
- Low power consumption
- Extended measuring range(2.5x I\_DN)

### **Advantages**

- Easy mounting
- Small size and space saving
- Only one design for wide current ratings range
- High immunity to external interference.

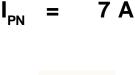
## Applications

- DC motor drives
- Switched Mode Power Supplies (SMPS)
- AC variable speed drives
- Uninterruptible Power Supplies (UPS)
- · Battery supplied applications
- Inverters

Notes : EN 50178 approval pending

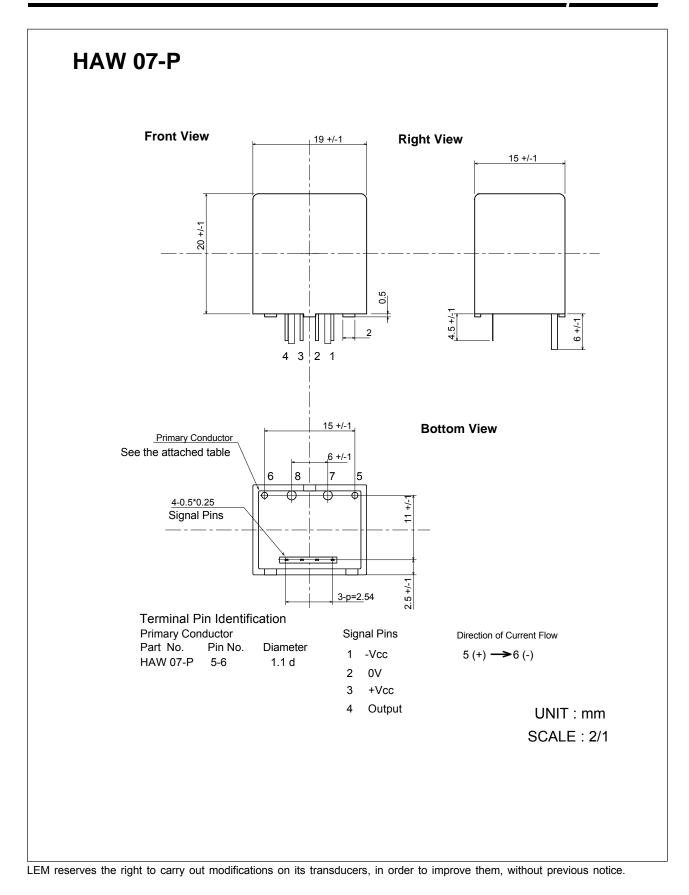
<sup>1)</sup> Derating is needed to avoid excessive core heating at high frequency.





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