

## Excellent Integrated System Limited

Stocking Distributor

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[LEM USA, Inc.](#)  
[HAW 07-P](#)

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## Current Transducer HAW 07-P

$$I_{PN} = 7 A$$

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



#### Electrical data

Primary nominal r.m.s. current $I_{PN}$ (A)	Primary current measuring range $I_P$ (A)	Primary Conductor Diameter (mm)	Type	
7.5	$\pm 19$	1.1	<b>HAW 07-P</b>	
$V_C$	Supply voltage ( $\pm 5\%$ )		$\pm 15$	V
$I_C$	Current consumption		$< \pm 18$	mA
$V_d$	R.m.s. voltage for AC isolation test, 50/60Hz, 1 mn		2.0	kV
$R_{IS}$	Isolation resistance @ 500 VDC		$> 500$	M $\Omega$
$V_{OUT}$	Output voltage @ $\pm I_{PN}$ , $R_L = 10\text{ k}\Omega$ , $T_A = 25^\circ\text{C}$		$\pm 4$	V
$R_{OUT}$	Output internal resistance		100	$\Omega$
$R_L$	Load resistance		$> 10$	k $\Omega$

#### Features

- Hall effect measuring principle
- Galvanic isolation between primary and secondary circuit
- Isolation voltage 2000 V
- Low power consumption
- Extended measuring range ( $2.5 \times I_{PN}$ )

#### Accuracy-Dynamic performance data

$X$	Accuracy @ $I_{PN}$ , $T_A = 25^\circ\text{C}$ (without offset)	$< \pm 1$	% of $I_{PN}$
$e_L$	Linearity ( $0 \dots \pm I_{PN}$ )	$< \pm 1$	% of $I_{PN}$
$V_{OE}$	Electrical offset voltage, $T_A = 25^\circ\text{C}$	$< \pm 40$	mV
$V_{OH}$	Hysteresis offset voltage @ $I_P = 0$ ; after an excursion of $1 \times I_{PN}$	$< \pm 20$	mV
$V_{OT}$	Thermal drift of $V_{OE}$	max. $\pm 1.5$	mV/K
$t_{CG}$	Thermal drift of the gain (% of reading)	$\pm 0.1$	%/K
$t_r$	Response time @ 90% of $I_P$	$< 3$	$\mu\text{s}$
$f$	Frequency bandwidth (-3 dB) <sup>1)</sup>	DC .. 50	kHz

#### Advantages

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

#### General data

$T_A$	Ambient operating temperature	- 10 .. + 75	$^\circ\text{C}$
$T_S$	Ambient storage temperature	- 15 .. + 85	$^\circ\text{C}$
$m$	Mass	12	g

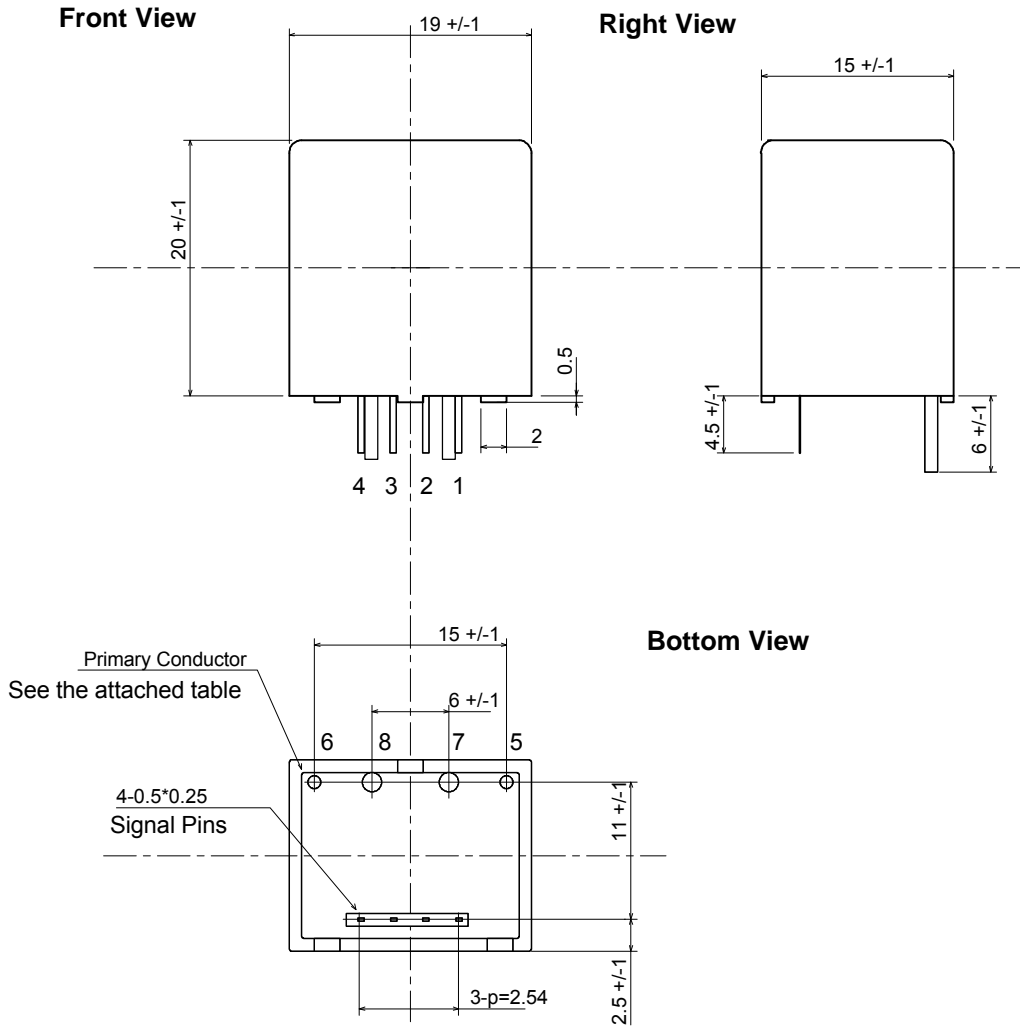
#### Applications

- 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.

# HAW 07-P



### Terminal Pin Identification

Primary Conductor			Signal Pins	
Part No.	Pin No.	Diameter	1	2
HAW 07-P	5-6	1.1 d	-Vcc	0V
			+Vcc	Output

Direction of Current Flow

5 (+) → 6 (-)

UNIT : mm  
SCALE : 2/1