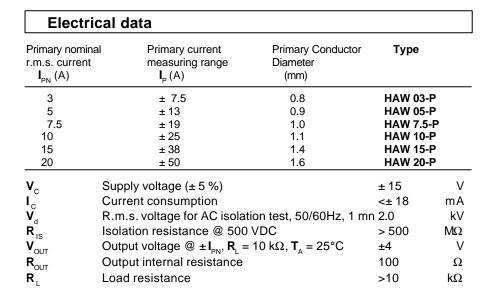


## Current Transducer HAW 03 .. 20-P

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**



Acc	curacy-Dynamic performance data		
X	Accuracy @ $I_{PN}$ , $T_A = 25$ °C (without offset)	< ± 1	% of <b>I</b> <sub>PN</sub>
<b>e</b> l	Linearity (0 ± I <sub>PN</sub> )	< ± 1	% of <b>I</b> <sub>PN</sub>
V <sub>OE</sub> V <sub>OH</sub>	Electrical offset voltage, <b>T</b> <sub>A</sub> = 25°C	$< \pm 40$	mV
V <sub>OH</sub>	Hysteresis offset voltage $@ \mathbf{I}_p = 0;$		
011	after an excursion of 1 x I <sub>PN</sub>	$< \pm 20$	m۷
$V_{\text{OT}}$	Thermal drift of $\mathbf{V}_{OF}$ max.	± 1.5	mV/K
V <sub>ot</sub> TC <b>€</b> <sub>G</sub>	Thermal drift of the gain (% of reading)	± 0.1	%/K
t,	Response time @ 90% of $I_{\rm p}$	< 3	μs

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

Notes: EN 50178 approval pending

 $I_{PN} = 3..20 A$ 



#### **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<sub>PN</sub>)

#### Advantages

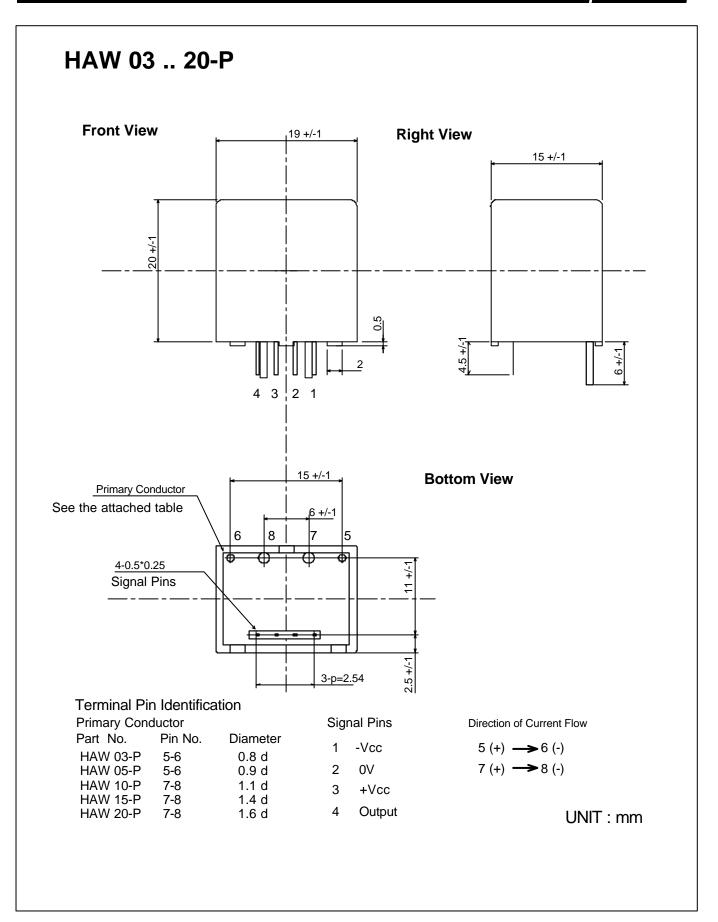
- Easy mounting
- Small size and space saving
- Only one design for wide current ratings range
- High immunity to external interference.

### **Applications**

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

000926/1





LEM reserves the right to carry out modifications on its transducers, in order to improve them, without previous notice.