LEM

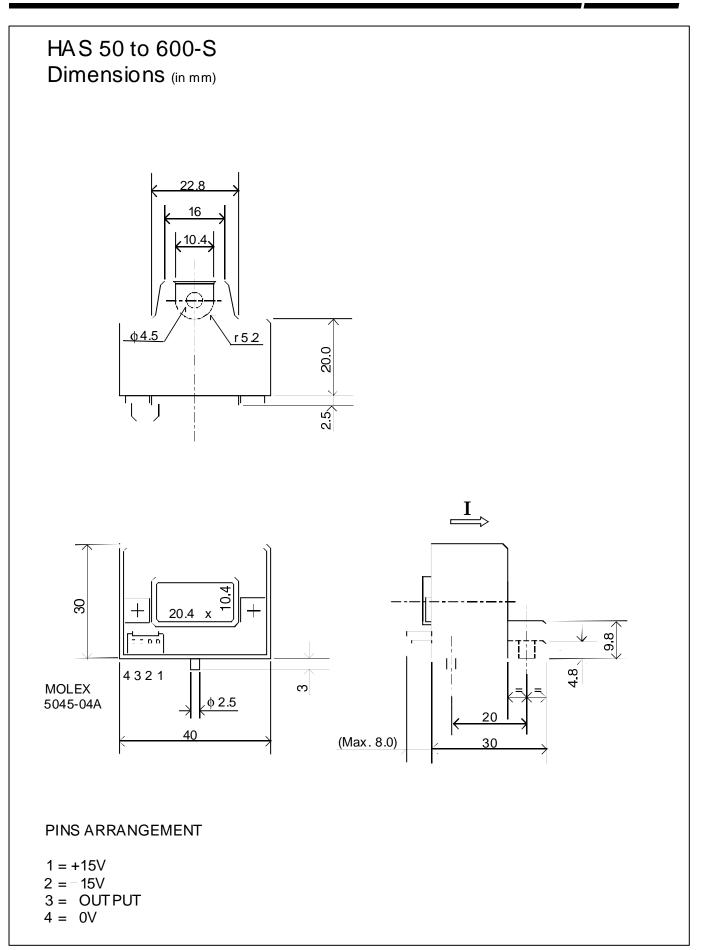
Current Transducers HAS 50 to 600-S For the electronic measurement of currents: DC, AC, pulsed, mixed, with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit).			$I_{PN} = 50600 \text{ A}$ $V_{OUT} = \pm 4 \text{ V}$
YEARS .	CE	a 4i	
Electrical data			
Primary nomina r.m.s. current I _{PN} (A)	al Primary current Type measuring range I _P (A)		
50 100 200 300 400 500 600	$\begin{array}{ccccc} \pm 150 & \text{HAS 50-S} \\ \pm 300 & \text{HAS 100-S} \\ \pm 600 & \text{HAS 200-S} \\ \pm 900 & \text{HAS 300-S} \\ \pm 900 & \text{HAS 400-S} \\ \pm 900 & \text{HAS 500-S} \\ \pm 900 & \text{HAS 600-S} \\ \end{array}$	-49	 Features Hall effect measuring principle Galvanic isolation between primary and secondary circuit Isolation voltage 3000 V~
V _c I _c V _{oc} V _b R _{is} V _{out}	Supply voltage (± 5 %) Current consumption Overload capacity R.m.s. voltage for AC isolation test, 50/60 Hz, 1 r R.m.s. rated voltage, safe separation Isolation resistance @ 500 VDC Output voltage @ $\pm I_{PN}$, $R_{L} = 10 \text{ k}\Omega$, $T_{A} = 25^{\circ}\text{C}$	30,000 nn 3 500 ¹⁾	 Low power consumption Extended measuring range (3 x I_{PN}) Extended plastic case made of polycarbonate PBT recognized according to UL 94-V0 Advantages
40 mV R _{out} R _L	Load resistance	rox. 100 >1	 Ω • Easy mounting • Small size and space saving • Only one design for wide current ratings range
Accurac	y - Dynamic performance data		High immunity to external
Х С V _{OE} V _{OH}	Accuracy @ \mathbf{I}_{PN} , $\mathbf{T}_{A} = 25^{\circ}$ C (without offset) Linearity ²⁾ (0 $\pm \mathbf{I}_{PN}$) Electrical offset voltage, $\mathbf{T}_{A} = 25^{\circ}$ C Hysteresis offset voltage @ $\mathbf{I}_{P} = 0$;	< ± 1 < ± 1 % of < ± 20 r	% interference. I _{PN} nV
v _{от}	after an excursion of 1 x I_{PN} Thermal drift of V_{OE} HAS 50-S HAS 100 to HAS 600	<±2 m\	mV Applications //K //K • AC variable speed drives
TC C g t, di/dt f	Thermal drift of the gain (% of reading) Response time @ 90% of I_p di/dt accurately followed Frequency bandwidth (- 3 dB) ³⁾	<±0.1 % <3 >50 A	 Static converters for DC motor drive Battery supplied applications Uninterruptible Power Supplies Hz
General		-116	Switched Mode Power Supplies (SMPS)
T _A T _S m	Ambient operating temperature Ambient storage temperature Mass Standards ⁴⁾	- 10 + 80 - 25 + 80 rox. 60 EN 50178	 C • Power supplies for welding C applications.

Notes : ¹⁾ Pollution class 2, overvoltage category III.

- ²⁾ Linearity data exclude the electrical offset.
- ³⁾ Please refer to derating curves in the technical file to avoid excessive **PDF** core heating at high frequency.

Please consult characterisation report for more technical details and odf.dzsc.com





LEM reserves the right to change limits and dimensions.