Current Transducer LA 305-S/SP5

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

YEARS CE



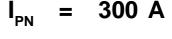
		10100				
El	ectrical data					
PN	Primary nominal r.m.s. c		300			
P	Primary current, measur	0 ± 500				
R _M	Measuring resistance @		$\mathbf{T}_{A} = 7$	$T_{A} = 70^{\circ}C T_{A} = 85^{\circ}$		°C
IVI	-			$\mathbf{R}_{M\min}^{\prime} \mathbf{R}_{M\max}^{\prime} \mathbf{R}_{M\min}^{\prime} \mathbf{R}_{M\max}^{\prime}$		
	with ± 12 V	@ ± 300 A _{max}	0	52	0 50	Ω
		$@\pm 500 A_{max}$	0	17	0 15	
	with ± 15 V	$@ \pm 300 A_{max}$	0	75	5 73	
		@ ± 500 A max	0	31	5 29	
	Secondary nominal r m		120		m	
N N	Secondary nominal r.m.s. current Conversion ratio			1 : 2500		
N C	Supply voltage (± 5 %)			± 12 15		
с ;	Current consumption			$20(@\pm 15V)+I_{s}m/$		
; b	R.m.s. rated voltage ¹⁾ , s	afe separation		1750		s ····
b	-	asic isolation		3500		
G	CCURACY - Dynamic p Overall accuracy @ I _{PN} , Linearity		ata	± 0.8 < 0.1		 0
L	Linearity			Typ	Max	,
)	Offset current @ $I_p = 0, T$	_A = 25°C			± 0.20	m
ОМ	Residual current ²⁾ @ I_{P} =	0, after an overloa	d of 3 x I _{PN}		± 0.40	m
т	Thermal drift of Io	- 10°C .	. + 85°C	± 0.12	2 ± 0.30	m
а	Reaction time @ 10 % of	E I		< 500)	n
a	Response time 3) @ 90 %			< 1		μ
i/dt	di/dt accurately followed	FN		> 100)	Α/μ
	Frequency bandwidth (-	3 dB)		DC	100	kH
G	eneral data					
				4.0	0.5	

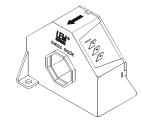
General data							
T₄	Ambient operating temperature		- 10 + 85	°C			
T _s	Ambient storage temperature		- 40 + 90	°C			
Řs	Secondary coil resistance @	$\mathbf{T}_{A} = 70^{\circ}\mathrm{C}$	35	Ω			
		$\mathbf{T}_{A} = 85^{\circ}C$	37	Ω			
m	Mass		200	g			
	Standards		EN 50178 : 1997				

Notes : ¹⁾ Pollution class 2. With a non insulated primary bar which fills the through-hole

²⁾ The result of the coercive field of the magnetic circuit

³⁾ With a di/dt of 100 A/µs.





Features

- Closed loop (compensated) current transducer using the Hall effect
- Insulated plastic case recognized according to UL 94-V0.

Special feature

• Connection to secondary circuit on Faston 6.3 x 0.8 mm.

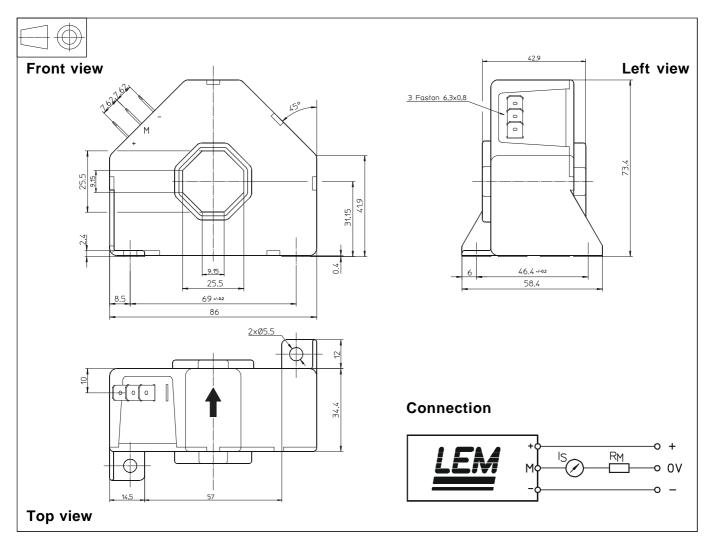
Advantages

- Excellent accuracy
- Very good linearity
- Low temperature drift
- Optimized response time
- Wide frequency bandwidth
- No insertion losses
- High immunity to external interference
- Current overload capability.

Applications

- AC variable speed drives and servo motor drives
- Static converters for DC motor drives
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Power supplies for welding applications.

Dimensions LA 305-S/SP5 (in mm. 1 mm = 0.0394 inch)



Mechanical characteristics

- General tolerance
- Transducer fastening
 - Fastening torque, max.
- Primary through-hole
- Connection of secondary

±	0.5	mm	

- 2 holes Ø 5.5 mm 2 M5 steel screws 4 Nm or 2.95 Lb. - Ft.
- 25.5 x 25.5 mm Faston 6.3 x 0.8 mm

Remarks

- I_s is positive when I_p flows in the direction of the arrow.
- Temperature of the primary conductor should not exceed 100°C.
- Dynamic performances (di/dt and response time) are best with a single bar completely filling the primary hole.

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

单击下面可查看定价,库存,交付和生命周期等信息

>>LEM(莱姆)