

Açıkça izin alınmadan bu belgenin çoğaltılması, dağıtılması ve / veya düzenlenmesi, değiştirilmesi ve bunların başkalarına iletilmesi yasaktır. İhtilaller tazminatı gerektirir. Patent verilmesi veya bir yardımcı modelin veya tasarım patentinin tesicili oluşturulması veya başka bir şekilde korunması ile yaratılan tüm haklar saklıdır.

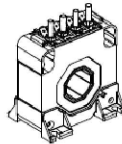


Current Transducer LTC 350-SF

For the electronic measurement of currents: DC, AC, pulsed..., with galvanic separation between the primary circuit and the secondary circuit.



$I_{PN} = 350 \text{ A}$



Electrical data

I_{PN}	Primary nominal RMS current	350	A			
I_{PM}	Primary current, measuring range @ $\pm 24 \text{ V}$	0 ... ± 1200	A			
R_M	Measuring resistance	with $\pm 15 \text{ V}$	@ $\pm 500 \text{ A}_{max}$	R_{Mmin}	R_{Mmax}	Ω
			@ $\pm 900 \text{ A}_{max}$	0	30	Ω
		with $\pm 24 \text{ V}$	@ $\pm 500 \text{ A}_{max}$	0	8	Ω
			@ $\pm 1200 \text{ A}_{max}$	10	60	Ω
I_{SN}	Secondary nominal RMS current	175	mA			
N_p/N_s	Turns ratio	1 : 2000				
U_C	Supply voltage ($\pm 5 \%$)	$\pm 15 \dots 24$	V			
I_C	Current consumption	< 35 (@ $\pm 24 \text{ V}$) + I_C	mA			

Accuracy - Dynamic performance data

ϵ_{tot}	Total error @ $I_F, T_A = 25 \text{ }^\circ\text{C}$	$< \pm 0.5$	%
ϵ_L	Linearity error	< 0.1	%
I_{CO}	Offset current @ $I_p = 0, T_A = 25 \text{ }^\circ\text{C}$	± 0.5	mA
I_{DT}	Temperature variation of I_{CO}	$-40 \text{ }^\circ\text{C} \dots +85 \text{ }^\circ\text{C}$	± 0.8 mA
t_{90}	Delay time to 90 % of the final output value for I_{PN} step $^{11} < 1$	μs	
BW	Frequency bandwidth (-1 dB)	DC ... 100	kHz

General data

T_A	Ambient operating temperature	$-40 \dots +85$	$^\circ\text{C}$
T_{AM}	Ambient storage temperature	$-45 \dots +90$	$^\circ\text{C}$
R_{20}	Resistance of secondary winding @ $T_A = 85 \text{ }^\circ\text{C}$	15	Ω
m	Mass	400	g
	Standards	EN 50155: 2017 ²⁾ EN 50121-3-2: 2016	

Features

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

Advantages

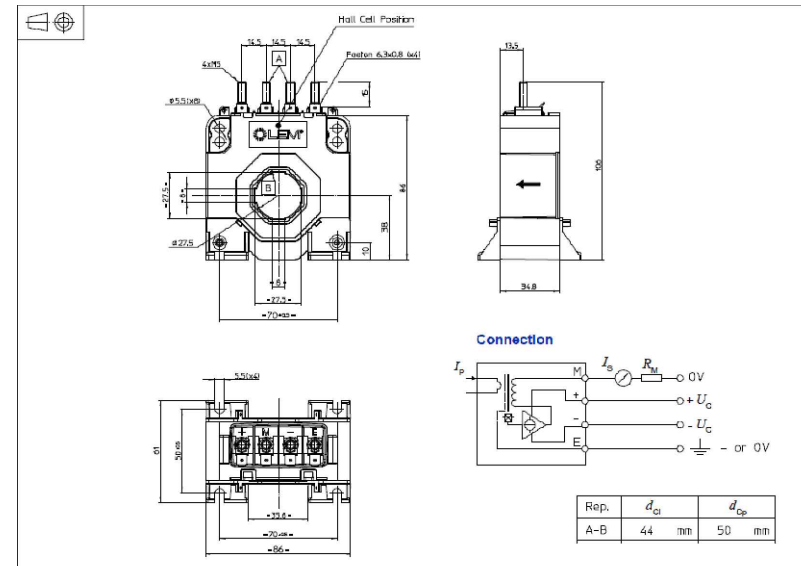
- Excellent accuracy
- Very good linearity
- Low temperature drift
- Optimized response time
- Wide frequency bandwidth
- No insertion losses
- High immunity to external interference
- Current overload capability.

Applications

- Single or three phase inverters
- Propulsion and braking choppers
- Propulsion converters
- Auxiliary converters
- Battery chargers.

Application Domain

- Railway (fixed installations and onboard).



AUTOCAD		DRAWING SHALL NOT BE REVISED OUTSIDE CAD SYSTEM	
		KG A3	
		LEM LTC 350-SF	
Ind. Revision no		Date	Name
1 : 1		Prepared 2022-08-12	GOKGOZ_E
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