and the secondary circuit (electronic circuit).

[E

Primary nominal r.m.s. voltage

Non-measurable overload

Primary input resistance

Primary voltage measuring range

Electrical data

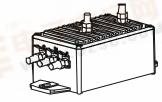
V_{PN}

ŶP

 \mathbf{R}_{P}

V_{Pmax}

Voltage Transducer AV 100-2000 $V_{PN} = 2000 V$ For the electronic measurement of voltages : DC, AC, pulsed..., with a galvanic isolation between the primary circuit (high voltage)



Features

V

V

V_{DC}

Ω

- Insulated plastic case recognized according to UL 94-V0
- Included primary resistor.
- су
- ty
- me
- external
- in common mode.
- d drives and servo
- for DC motor drives
- applications
- ower Supplies
- for welding

R _M	Measuring resistance	0 4	 ^{Μ max} 7 Ω 84 Ω	Included primary r
I _{sn} V _c	Secondary nominal r.m.s. current Supply voltage (±5%)	50 DC±12	mA	Advantages
I _c	Current consumption	50+I _s	m A	 Low power
V_{d}	R.m.s. voltage for AC isolation test, 50 Hz, 1 min	6.5	kV	 Excellent accuracy
	Max Common mode voltage	$U_{HT_{+}} + U_{HT_{-}} \leq$		 Very good linearity
	and	U _{ht+} - U _{ht-}	$\leq V_{PMAX}$	 Low thermal drift
V _e	R.m.s. voltage for partial discharge			 Low response tim
	extinction @ 10pC	2.2	kV	 High bandwidth
				 High immunity to e
				interference
	ccuracy - Dynamic performance data			 Low disturbance i
		1 80. 1	1122	
X _G	Overall Accuracy @ V _{PN} , T _A = + 25°C	±0.7	%	
X _G	Overall Accuracy @ V_{PN} , $T_A = -25 + 70^{\circ}C$	± 1.5	%	Applications
X _G	Overall Accuracy @ V _{PN} , T _A = - 40 + 85°C	± 1.7	%	
e	Linearity @ T _A = 25°C	< 0.1	%	 AC variable speed
I _o	Offset current \bigcirc V _P = 0, T _A = 25°C	± 0.15	m A	motor drives
t	Response time @ 10 % of V _{PN}	< 12	μs	 Static converters f
f	Frequency bandwidth (-3dB)	DC 13	kHz	 Battery supplied a
				 Uninterruptible Po (UPS)
Ge	eneral data		120	 Power supplies for
		0		applications.
т	Ambient operating temperature	- 40 + 85	°C	
T _A T		- 50 + 90	-	
T _s m	Ambient storage temperature Mass Standards	375		
	Standards	EN 50155	g (01 12 02)	
	otandarda	EN 50124-1 (01.03.01)		
			2 (01.10.88)	
			_ (01.10.00)	
Note :	¹⁾ Up to 2200 Vpk, 500 ms every 60 minutes & 260	0 Vpk, 500 ms	,12	
	times/year.			
) †12 🧼 r				

2000

 $\pm 3000^{1)}$

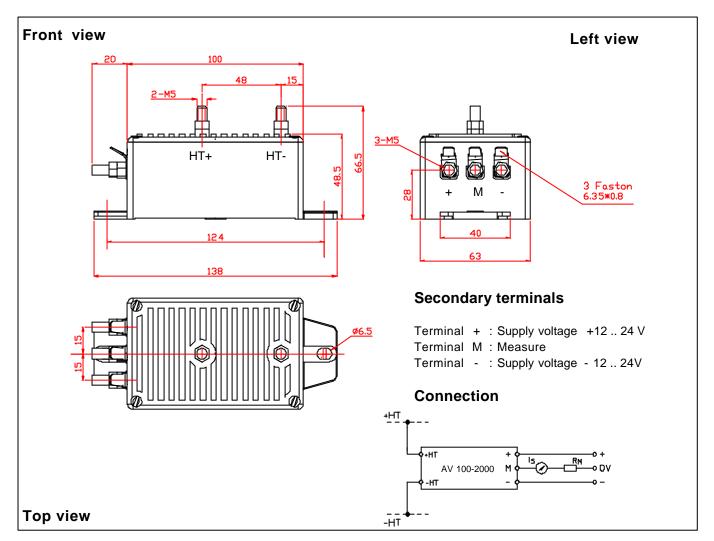
17.8M

4500 (1s/h)

LEM Components



Dimensions AV 100-2000 (in mm. 1 mm = 0.0394 inch)



Mechanical characteristics

- General tolerance ± 1 mm
 Transducer fastening 2 holes Ø 6.5 mm
- Distance between holes 124mm
- Fastening & connection of primary 2 x M5
- Fastening & connection of secondary 3 x M5 or 3 Faston 6.35 x 0.8mm
- Output connections must be made with screened cables
- Recommended fastening torque 2.2 Nm or 1.62 Lb Ft.

Remarks

- I_s is positive when V_p is applied on terminal +HT.
- This is a standard model. For different versions, please contact us.