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** 

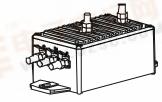
V<sub>PN</sub>

ŶP

 $\mathbf{R}_{P}$ 

V<sub>Pmax</sub>

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<sub>DC</sub>

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

2000

 $\pm 3000^{1)}$ 

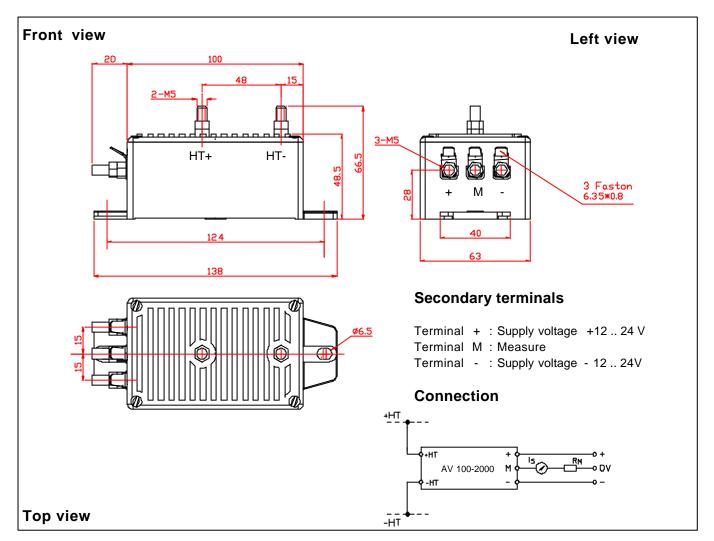
17.8M

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.