

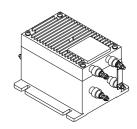
Voltage Transducer LV 200-AW/2/200

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





$V_{PN} = 200 V$



Electrical data

$oldsymbol{V}_{ extsf{PN}} \ oldsymbol{V}_{ extsf{P}} \ oldsymbol{R}_{ extsf{M}}$	Primary nominal r.m.s. voltage Primary voltage, measuring range Measuring resistance		$200 \\ 0 \pm 300 \\ \mathbf{R}_{\text{M min}} \mathbf{R}_{\text{M max}}$		V V
	with ± 15 V	@ ± 200 V _{max}	0	120	Ω
		@ ± 300 V _{max}	0	60	Ω
	with ± 24 V	@ ± 200 V _{max}	60	220	Ω
		@ ± 300 V _{max}	60	110	Ω
I _{SN}	Secondary nominal r.m.s. current		80		mΑ
K _N	Conversion ratio		200 V /	80 mA	
v c	Supply voltage (± 5 %)		± 15	24	V
I _c	Current consumption		30 (@ ±2	24V)+ I s	mΑ
V _d	R.m.s. voltage for AC isolation test, 50 Hz, 1 mn		6 ¹⁾		kV
-			1 ²⁾		kV
\mathbf{V}_{e}	R.m.s. voltage for partial dis	scharges extinction @ 50 pC	2.5		kV

Accuracy - Dynamic performance data

1.0 %
0.1 %
yp Max
± 0.3 mA
yp Max ± 0.3 mA 0.3 ± 0.6 mA
) µs
(

General data

$\mathbf{T}_{_{\mathrm{A}}}$	Ambient operating temperature	- 25 + 70	°C	
T _s	Ambient storage temperature	- 40 + 85	°C	
N	Turns ratio	5000 : 2500		
Р	Total primary power loss	8	W	
$R_{_1}$	Primary resistance @ T _A = 25°C	5	kΩ	
R _s	Secondary coil resistance @ T _A = 70°C	40	Ω	
m	Mass	2	kg	
	Standards 3)	EN 50178		

Features

- Closed loop (compensated) voltage transducer using the Hall effect
- Insulated plastic case recognized according to UL 94-V0
- · Accessible electronic circuit
- Shield between primary and secondary circuit
- Primary resistor R₁ incorporated into the housing.

Advantages

- Good accuracy
- Very good linearity
- Low thermal drift
- High immunity to external interference
- · Current overload capability.

Applications

- AC variable speed drives and servo motor drives
- · Static converters for DC motor drives
- Uninterruptible Power Supplies (UPS)
- Power supplies for welding applications.

Notes: 1) Between primary and secondary + shield

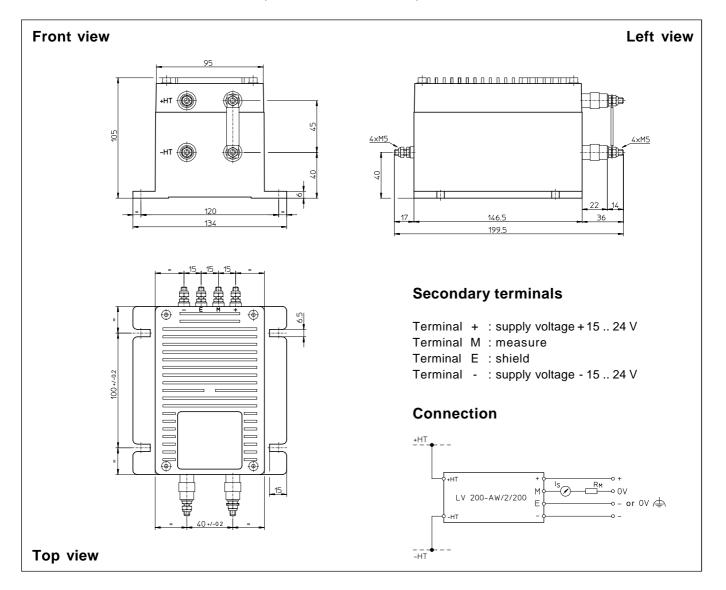
2) Between secondary and shield

3) A list of corresponding tests is available

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Dimensions LV 200-AW/2/200 (in mm. 1 mm = 0.0394 inch)



Mechanical characteristics

- General tolerance
- Fastening
- Connection of primary
- Connection of secondary
- Fastening torque
- ± 0.5 mm 4 holes Ø 6.5 mm M5 threaded studs M5 threaded studs 2.2 Nm or 1.62 Lb. -Ft.

Remarks

- \bullet ${\bf I}_{_{\rm S}}$ is positive when ${\bf V}_{_{\rm P}}$ is applied on terminal +HT.
- The primary circuit of the transducer must be linked to the connections where the voltage has to be measured.
- This is a standard model. For different versions (supply voltages, turns ratios, unidirectional measurements...), please contact us.