Notes : 1) With a dv/dt of 1000 V/µs

³⁾ A list of corresponding tests is available.

Features 2828 V 0 .. ± 4000 V 10 V 4000 V / 10 V transducer **3**2 kΩ £ 5 nF Supply voltage (± 5 %) ± 15 V • Current consumption $35 + V_{s} / R$ m A R.m.s. voltage for AC isolation test, 50 Hz, 1 mn 9 Accuracy - Dynamic performance data Тур Max $T_A = 25^{\circ}C$ ± 1 % 25°C .. + 70°C ± 2 % $T_A = 25^{\circ}C$ ± 30 mν 25°C .. + 70°C ± 60 mν ≅ 25 μs motor drives DC .. 11 kHz (UPS) **General data** applications С v 2 a N 50178

Voltage Transducer CV 4-4000

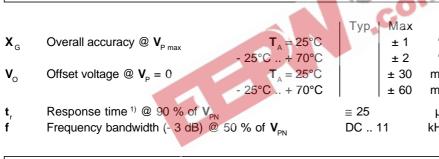
For the electronic measurement of voltages : DC, AC, pulsed..., with a galvanic isolation between the primary circuit (high voltage) and the secondary circuit (electronic circuit).

Electrical data

CE

V_{PN} Primary nominal r.m.s. voltage V_P Primary voltage, measuring range Vs Secondary analog voltage @ V_{P max} \mathbf{K}_{N} Conversion ratio \mathbf{R}_{L} Load resistance $\mathbf{C}_{\scriptscriptstyle L}$ Capacitive loading

- V_c
- \mathbf{V}_{d}



T _A	Ambient operating temperature	- 25 + 70	°C
T _s	Ambient storage temperature	- 40 + 85	°C
P	Total primary power loss	2.86	W
R ₁	Primary resistance	2.8	MΩ
m	Mass	600	g
	Standards ^{2) 3)}	EN 50155	
		EN 50178	

²⁾ Specifications according to IEC 1000-4-3 are not guaranteed around 100 MHz. Sensitivity to induced radiation on connecting cable.

- Closed loop (compensated) voltage
- Insulated plastic case recognized according to UL 94-V0
- Patent pending.

Advantages

- Very good linearity
- Low thermal drift
- · Low response time
- High bandwidth.

Applications

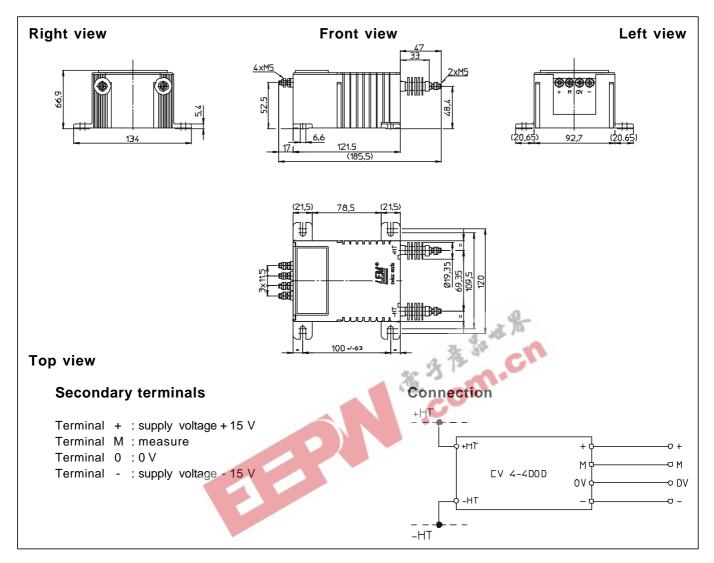
- AC variable speed drives and servo
- Static converters for DC motor drives
- Uninterruptible Power Supplies
- · Power supplies for welding
- · Railway overhead line voltage measurement.

000613/2



$V_{PN} =$ 2828 V

Dimensions CV 4-4000 (in mm. 1 mm = 0.0394 inch)



Mechanical characteristics

- General tolerance
- Fastening
- Connection of primary
- Connection of secondary
- Fastening torque

 \pm 0.5 mm 4 slots Ø 6.6 mm M5 threaded studs M5 threaded studs 2.2 Nm or 1.62 Lb. -Ft.

Remarks

 $\bullet~V_{_{\rm S}}$ is positive when $V_{_{\rm P}}$ is applied on terminal +HT.

• This is a standard model. For different versions (supply voltages, turns ratios, unidirectional measurements...), please contact us.