

Voltage Transducer ATVR D420L Series

$V_{PN} = 120 \sim 400 \text{ V}$

For the electronic TRMS measurement of AC voltage with a galvanic isolation between the primary and secondary circuit.



Electrical data

		ATVR 120 D420L	ATVR 250 D420L	ATVR 400 D420L	
V_{PN}	Primary nominal voltage	120	250	400	V
V_P	Primary voltage, measuring range			120	$\%V_{PN}$
I_{SN}	Secondary nominal current		@ $V_P = 0$: @ $V_P = V_{PN}$:	$I_s = 4$ $I_s = 20$	mA mA
V_C	Auxiliary supply (Loop-powered $\pm 5\%$)			24	V DC
V_d	R.m.s. voltage for AC isolation test 1 mn			2.5	kV

Features

- Insulated plastic case recognized according to UL 94-V0
- DIN 23 mm rail mounting
- Loop-powered
- TRMS.

Advantages

- Excellent linearity
- Best ratio of feature and price
- Galvanic isolation between primary and secondary.

Application

- Process automation
- Measuring instrument
- Monitoring
- Power station.

Accuracy-dynamic performance data

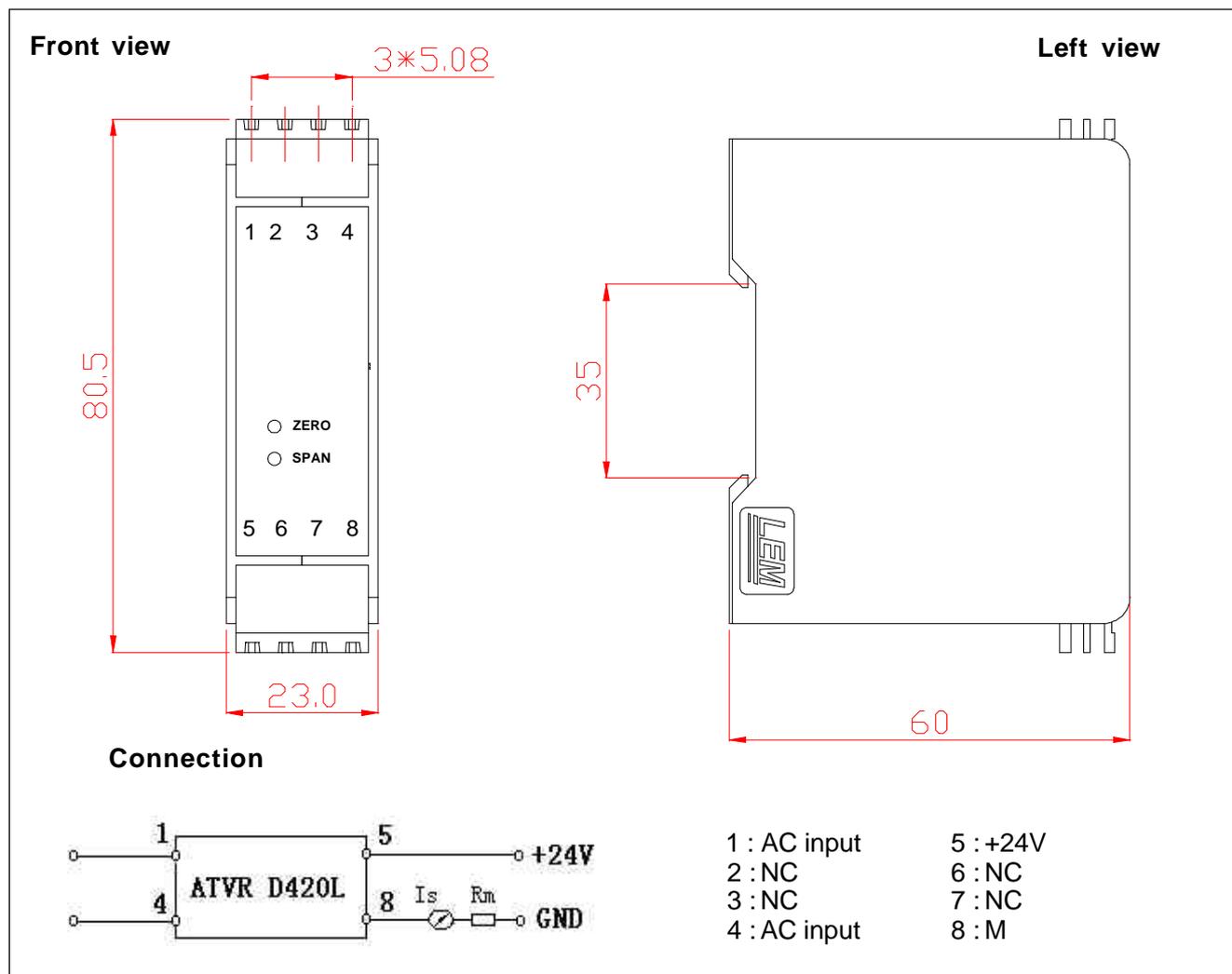
X_G	Overall accuracy ($T_A = 25\text{ °C}$)	$\leq \pm 1$	%
e_L	Linearity error	$\leq \pm 0.5$	%
t_r	Response time @ 90 % of I_{PN}	≤ 250	ms
f	Frequency bandwidth (-1dB)	40~5K	Hz

General data

T_A	Ambient operating temperature	-10.. + 70	°C
T_S	Ambient storage temperature	-15.. + 80	°C
R_M	Measuring resistance	≤ 500	Ω
m	Mass	60	g
	Standard	EN50178 ¹⁾	

Note : ¹⁾ EN 61000-4-3 : Electromagnetic HF field : Criterion B temporary impairment to operational behaviour.

Dimensions ATVR D420L series (in mm. 1 mm = 0.0394 inch)



Mechanical characteristics

- General tolerance ± 0.5 mm
- Mounting DIN 23 mm
- Connection of secondary XY2500R-D