



VOLTAGE SENSOR

V240L universal data sheet

Indoor Support Insulator 24kV Shape
IEC 61869-1, IEC 61869-11

Type:	Voltage sensor
Primary type:	24 / 50 / 125 kV or 17.5 / 38 / 75 kV
Shape:	Indoor Support Insulator 24kV Shape
Burden:	100kΩ - 2GΩ 0pF - 1nF
Accuracy:	0.2 / 0.5 / 1 with or without protection classes
Wide Band Accuracy:	WB0 - WB3 as additional classes, with accuracies of 0.2-3
Frequency:	50Hz or 60Hz or 50/60Hz
Primary value:	6kV/√3 - 22kV/√3
Secondary value:	1V - 10V
Voltage Factor/ Extension:	BIL and primary depended, usually 1.9 x Un/8h
Isolation-level:	24 / 50 / 125 kV or 17.5 / 38 / 75 kV
Cable length:	2m, 3.7m, 5m, 8m
Cable type:	2 pole, black, shielded, konf. 80°C (standard)
Connection type:	Open End or BNC or RJ45 (please name pinning)
Measuring burden:	100kΩ - 2GΩ 0pF - 1nF
Storage temperature:	-40°C - 85°C
Service temperature:	-25°C - +60°C (constant) / -40°C - 85°C (short-term)
Temperature error:	-1%@75°C/ +1%@-25°C/ -1.5%@85°C/ +1.5%@-40°C max.
TC (equivalent):	Maximal ±200PPM / Typical ±120PPM / Minimal ±50PPM PTC
Power rating/ consumption:	<1VA

Additional Information:

Data Fields in green are customer-defined, and therefore vary with specific product
Every specific product has a specific code
All this specific data fields are also shown in the official offers and orders
All data is locked to a specific no/ code. If a value changes, this code will change



Describes the type of measuring product
Primary product code value for fast identification: V240C/ V175C / V120C
Specified shape / dimensions – see universal technical drawing for details
Rated burden of product – IEC standards: 200kΩ||350pF or 2MΩ||50pF

Accuracy class(es) according to specified standard (0.5 & 3P standard)
Highly depends on burden of IED, cable (type and length), shape
Applicable frequencies = grid/ base frequency, for other frequencies please ask
Primary value @ line = primary (ratio), usually 20kV/√3, depends on region
Secondary value @ IED = secondary (ratio), usually IEC Norm 3.25V/√3
Upper measuring limit within accuracy class/ long-term measuring limit
Isolation level according to specified IEC standard, identical to primary type (for LPVTs)
Standard lengths of specific cable (other lengths available, but longer ordering time)
Generic cable description, also co-axial, outdoor, low-cap, high-temp etc. available
IED input interconnection, sensor side is always M8-3P-male
Measuring burden @ testing bench, equals IED(s) input impedance
Maximal storage temperature range, avoid extremes for longer than 72h
Permitted constant and short-term ambience temperatures in operation
Maximal deviations in percent at temperature extremes
Corresponding temperature coefficient in parts per million (curve = quasi-linear)
Power consumption @ nominal primary value