GWP
greenwood power

VOLTAGE SENSOR

V360L universal data sheet

Indoor Voltage Sensor for Support Mounting
Support Insulator 36kV Shape
IEC 61869-1, IEC 61869-11

Type:	Voltage sensor	Describes the type of measuring product
Primary type:	36 / 70 / 170 kV	Primary product code value for fast identification: V360L
Shape:	Support Insulator 36kV Shape	Specified shape / dimensions – see universal technical drawing for details
Burden:	100kΩ – 2GΩ || 0pF – 1nF	Rated burden of product – IEC standards: 200kΩ||350pF or 2MΩ||50pF
Accuracy:	0.2 / 0.5 / 1 with or without protection classes	Accuracy class(es) according to specified standard (0.5 & 3P standard)
Wide Band Accuracy:	WB0 – WB3 as additional classes, with accuracies of 0.2-3	Highly depends on burden of IED, cable (type and length), shape
Frequency:	50Hz or 60Hz or 50/60Hz	Applicable frequencies = grid/ base frequency, for other frequencies please ask
Primary value:	23kV/√3 – 34.5kV/√3	Primary value @ line = primary (ratio), usually 30kV/√3, depends on region
Secondary value:	1V – 10V	Secondary value @ IED = secondary (ratio), usually IEC Norm 3.25V/√3
Voltage Factor/ Extension:	BIL and primary depended, usually 1.9 x Un/8h	Upper measuring limit within accuracy class/ long-term measuring limit
Isolation-level:	36 / 70 / 170 kV	Isolation level according to specified IEC standard, identical to primary type
Cable length:	2m, 3.7m, 5m, 8m	Standard lengths of specific cable (other lengths available, but longer ordering time)
Cable type:	2 pole, black, shielded, konf. 80°C (standard)	Generic cable description, also co-axial, outdoor, low-cap, high-temp etc. available
Connection type:	Open End or BNC or RJ45 (please name pinning)	IED input interconnection, sensor side is always M8-3P-male
Measuring burden:	100kΩ – 2GΩ || 0pF – 1nF	Measuring burden @ testing bench, equals IED(s) input impedance
Storage temperature:	-40°C – 85°C	Maximal storage temperature range, avoid extremes for longer than 72h
Service temperature:	-25°C – +60°C (constant) / -40°C – 85°C (short-term)	Permitted constant and short-term ambience temperatures in operation
Temperature error:	-1%@75°C/ +1%@-25°C/ -1,5%@85°C/ +1.5%@-40°C max.	Maximal deviations in percent at temperature extremes
TC (equivalent):	Maximal ±200PPM / Typical ±120PPM / Minimal ±50PPM PTC	Corresponding temperature coefficient in parts per million (curve = quasi-linear)
Power rating/ consumption:	<1VA	Power consumption @ nominal primary value

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, so if a value changes this code will change

Legal status GmbH; Domicile in Brunn/Gebirge; Companies register: Landesgericht Wiener Neustadt FN 506344z; VAT-no.: ATU74116002; Managing directors: Kurt Ternegg (CEO), Norbert Juschicz (CIO & Founder)
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