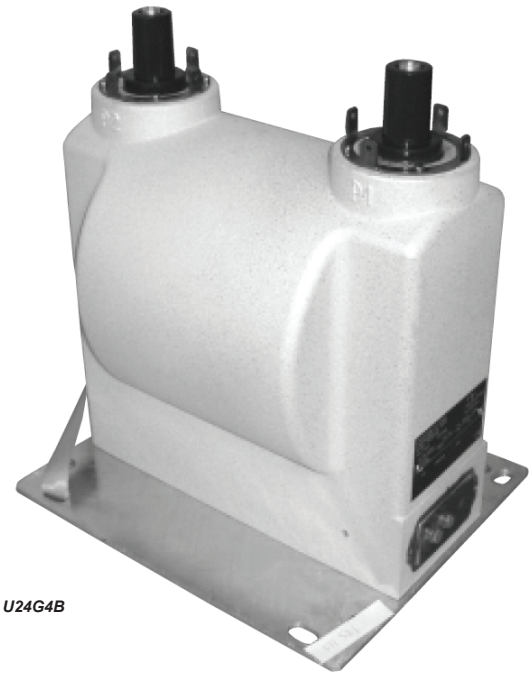
SINGLE PHASE 2-POLE PLUG-IN VOLTAGE TRANSFORMERS INDOOR - U..G.. A/B/C/W SERIES

Denomination example :

U	2 4	G 4	B

- B — Primary terminal type
- G 4 — Mould type denomination
- 2 4 — Highest Voltage for the equipement (Um)
- U — Type of primary connection
  - U phase to phase connection
  - E phase to earth connection



U24G4B

- ***Indoor***
- ***7,2 - 12 - 17,5 - 24 - 36 kV***
- ***Primary voltage up to 36kV***
- ***Touchproof finish***
- ***For metering, protection or auxilary power.***

2-pole voltage transformer vacuum moulded in self extinguishing epoxy resin for the measure of AC voltages between phases up to 36.000 V.

This transformer is equipped with two standard plugs. The user connects two insulated cables equipped with a standard mobile plug.

The transformer's surface is coated with a metallic compound that ensures a safe and evenly distributed magnetic field and zero-potential surface.

The anti-explosion system exclusively deals with secondary fault (short-circuit, maintained overload...). Under no circumstances it can handle a primary fault (overvoltage, ferroresonance, lightning, switching...)
This system must be associated with a cut-off relay. Maintaining feeding of VT would result in its destruction.

Technical data

Rated insulation level	From 3,6/16/45 kV to 36/70/170 kV
Primary voltage Upn	Up to 36.000 V
Secondary voltage Usn	100 - 110 - 120 - 220 - 230 V
Frequency	50 or 60 Hz
Rated output	Up to 500 VA CL 0,2 - 1200 VA CL 0,5 - 2400 VA CL 1 - 1200 VA CL 3
Accuracy class	0,1 - 0,2 - 0,5 -1 - 3 - 3P - 6P
Voltage factor	1,9 Un 8h
Thermal limiting output	Up to 10 kVA
Surface finish	Metallic
Secondary terminal and fixing plate finish	Indoor
Insulation class	E
Ambient temperature	- 5°C to + 40°C / 25°F to 100°F
Standards	IEC - IEEE - CSA - AS - BS - UNE

Other characteristics on request

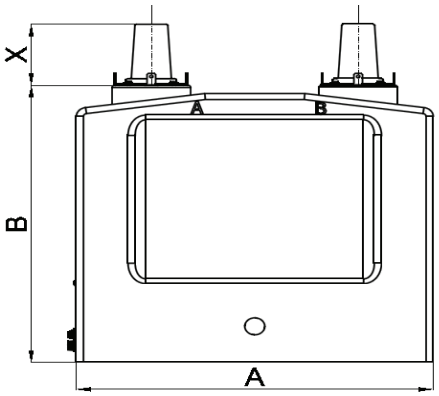
Antiferroresonance	Low induction
Secondary voltage	10 to 600 V
Secondary windings	Up to 3
Ambient temperature	- 25°C to + 70°C / -13°F to +160°F
Application	Measure and/or protection
Voltage factor	1,2 Un - 1,5 Un 30s

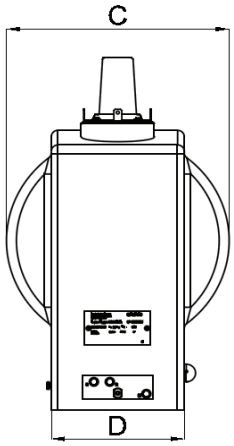
Accessories / Options

Primary terminal	Interface A, B, C, or W
Surface coating finish	Optional silicone Coating
Base plate	Standard - Several options available
Secondary terminal	On cable
Earth connector	Option
Anti-explosion device	Option
Double primary ratio	Option
Up to 3 secondaries	Option

SINGLE PHASE 2-POLE PLUG-IN VOLTAGE TRANSFORMERS - INDOOR - U..G.. A/B/C/W

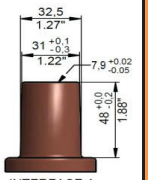
TWO INSULATED POLES - PHASE TO PHASE INDOOR TYPE							
U..G4..		U..G5..		U..G7..		U..G8..	
Dimensions. [mm].							
A:	332	A:	382	A:	500	A:	560
B:	317	B:	350	B:	458	B:	561
C:	225	C:	270	C:	335	C:	410
D:	120	D:	146	D:	200	D:	270
M : 57kg		M : 77kg		M : 137kg		M : 327kg	





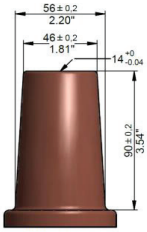
UNE-EN IEC 50181 H.V. PRIMARY TERMINAL TYPE

TYPE A - up to 24 kV.



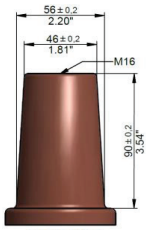
INTERFACE A
250A DESLIZANTE

TYPE B - up to 36 kV.



INTERFACE B
400A DESLIZANTE

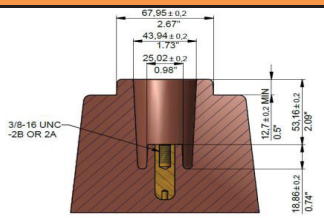
TYPE C - up to 36 kV.



INTERFACE C
630A ATORNILLADO

IEEE Std. 386™ H.V. PRIMARY TERMINAL TYPE

TYPE W - up to 21.1kV.



INTERFACE BUSHING WELL 200A

SECONDARY OUTPUT TERMINALS

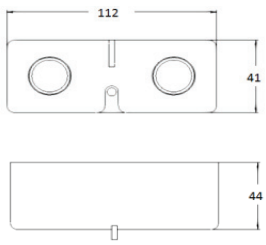
Taps:	M6 Screws	Cable:	2 / 3 / 4 / ... copper wire cable

UNE - EN IEC 61869 BURDEN AND CLASS

U..G4..				U..G5..				U..G7..				U..G8..			
Class				Class				Class				Class			
0.2	0.5	1	3	0.2	0.5	1	3	0.2	0.5	1	3	0.2	0.5	1	3
Up to ≤24 kV.				Up to ≤24 kV.				Up to ≤24 kV.				Up to ≤24 kV.			
Burden (VA.)				Burden (VA.)				Burden (VA.)				Burden (VA.)			
50	120	250	800	100	150	450	1200	450	1000	2000	6000	500	1200	2400	7000
Pth.(VA): 1000				Pth.(VA): 2100				Pth.(VA): 10000				Pth.(VA): 10000			
Up to 36 kV.				Up to 36 kV.				Up to 36 kV.				Up to 36 kV.			
Burden (VA.)				Burden (VA.)				Burden (VA.)				Burden (VA.)			
25	60	120	350	60	130	280	900	350	850	1700	5000	450	1100	2200	6500
Pth.(VA): 900				Pth.(VA): 1100				Pth.(VA): 7500				Pth.(VA): 10000			

SECONDARY SEALABLE BOX

Transparent - IP31 - holes: 4 x PG16



IEEE C57.13-2016 BURDEN AND CLASS

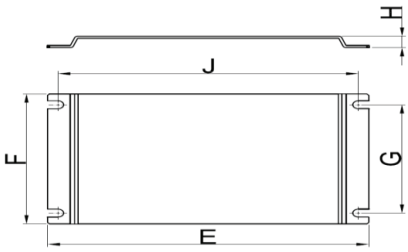
TIPO	U15G5..	U25G5..	U35G5..
Description	VT 15kV. BIL 95kV	VT 25kV. BIL 125kV	VT 35kV. BIL 150kV
Highest Voltage for the material phase to ground	7.0-7.6 kV	13.2-14.4 kV	19.1-20.7 kV
Output Voltage	$100V_{AC}$ ~ $120V_{AC}$ accordint to costumer's request		
Lightning impulse withstand voltage	95 kV	125 kV	150 kV
DELTA / WYE	DELTA	DELTA	DELTA
Ratio	60:1	175:1	300:1
Frequency	60 Hz.	60 Hz.	60 Hz.
Weight	165lbs (75kg)	165lbs (75kg)	165lbs (75kg)
Thermal Burden	1500 VA.	1500 VA.	1500 VA.
Class / Burden	0.3 W X M 0.6 W X M Y 1.2 W X M Y Z	0.3 W X M 0.6 W X M Y 1.2 W X M Y Z	0.3 W X 0.6 W X M 1.2 W X M Y

U..G4..				U..G5..				U..G7..				U..G8..			
E	F	G	J	E	F	G	J	E	F	G	J	E	F	G	J
310	180	150	290	370	230	200	350	600	340	300	500	700	420	370	670
H.: 16				H.: 17				H.: 20				H.: 20			
Fixation: 4 x Ø 11				Fixation: 4 x Ø 11				Fixation: 4 x Ø 12,5				Fixation: 4 x Ø 12,5			

Please, consult manufacturing options according to requested specifications

BASE PLATES - FIXING BRACKETS

(all dimensions in mm.)



• Other base plates and fixing brackets upon request.