SINGLE PHASE 1-POLE OUTDOOR VOLTAGE TRANSFORMERS E..G. R/P/G/M/V/Y SERIES

E24G4P

E24G3R

E24G0G

E52G7Y

Denomination example :

E	2 4	G 4	P

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

- **Outdoor**
- **7.2 - 12 - 17.5 - 24 - 36 - 52kV**
- **Primary voltage up to 52/√3 kV**

1-pole voltage transformer vacuum moulded in self extinguishing epoxy resin for the measure of AC voltages between phase and earth up to 52 000/√3 V.

This series also allows for feeding auxiliaries up to 10 000 VA CLA.

The secondary terminals are protected by a weatherproof cover equipped with cable glands.

A metallic coating ensures a safe distribution of the magnetic field and zero-potential surface for a deadtank design.

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 52/95/250 kV
Primary voltage Upn	Up to 52 000 /√3 V
Secondary voltage Usn	100/√3 - 110/√3 - 100/3 - 110/3 V
Frequency	50 or 60 Hz
Rated output	Up to 200 VA CL 0.5 - 400 VA CL 1 800 VA CL 3
Accuracy class	0.1 - 0.2 - 0.5 -1 - 3 - 3P - 6P
Voltage factor	1.9 Upn 8h
Thermal limiting output	Up to 10 000 VA
Surface finish	Touch-proof (deadtank) or Polyurethane
Fixing plate	Standard
Wheatherproof cover for secondary terminal	Standard
Insulation class	E
Ambient temperature	- 5°C to + 40°C
Standards	IEC - IEEE - CSA - AS - BS - UNE

Other characteristics on request

Secondary voltage Usn	10 to 600V
Voltage factor	1.2 Un 30s - 1.5 Un 30s
Secondary windings	Up to 3
Ambient temperature	- 25°C to + 70°C
Application	Measure and/or protection
Antiferroresonance	Low induction design

Accessories / Options

Surface finish	Silicone coating
Earth connector	Option
Anti-explosion system	Option

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MODELS CAPACITY / VOLUME

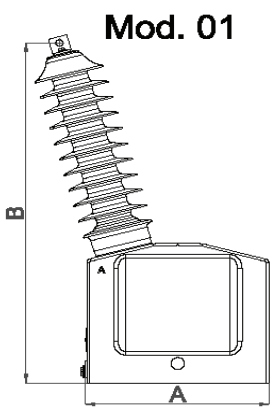
E..G0G..	E..G2..	E..G3..	E..G5..	E..G7..	E..G8..
Drawing: Mod.2	Drawing: Mod.2	Drawing: Mod.1	Drawing: Mod.1	Drawing: Mod.1 or Mod.02	Drawing: Mod.1 or Mod.02
MAXIMUM SECONDARY Nº					
1 , 2 or 3	1 , 2 or 3	1 , 2 or 3	1 , 2 or 3	1 , 2 or 3	1 , 2 or 3

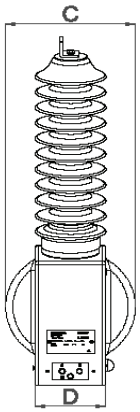
MAXIMUM TOTAL BURDEN [VA].

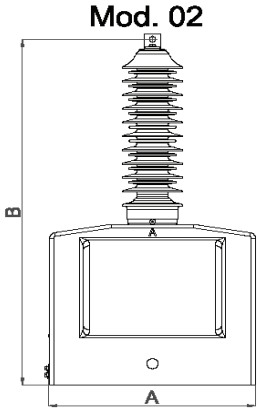
Up kV.	cl0.2	cl0.5	cl1	cl3
E..G0G..				
≤24	35	75	150	450
	Pth.[VA.]:		750	
36	25	60	120	300
	Pth.[VA.]:		450	
52	-	-	-	-
	Pth.[VA.]:		-	
E..G2..				
≤24	40	80	160	500
	Pth.[VA.]:		800	
36	15	35	70	200
	Pth.[VA.]:		300	
52	-	-	-	-
	Pth.[VA.]:		-	
E..G3..				
≤24	25	50	100	300
	Pth.[VA.]:		500	
36	-	-	-	-
	Pth.[VA.]:		-	
52	-	-	-	-
	Pth.[VA.]:		-	
E..G5..				
≤24	80	170	350	1100
	Pth.[VA.]:		1800	
36	55	130	260	750
	Pth.[VA.]:		1100	
52	15	35	70	200
	Pth.[VA.]:		300	
E..G7..				
≤24	400	900	1800	5500
	Pth.[VA.]:		8000	
36	350	850	1600	5000
	Pth.[VA.]:		7500	
52	200	450	900	2500
	Pth.[VA.]:		4000	
E..G8..				
≤24	500	1100	2200	6500
	Pth.[VA.]:		10000	
36	500	1100	2200	6500
	Pth.[VA.]:		10000	
52	300	600	1200	3500
	Pth.[VA.]:		5000	

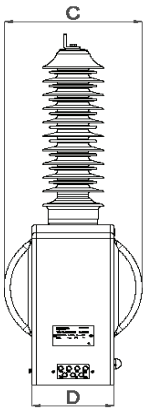
mm.	A	B	C	D
E..G0G..	288	392	232	124
E..G2..	340	308	186	120
E..G3..	332	317	225	120
E..G5..	382	350	270	146
E..G7..	500	458	335	200
E..G8..	560	561	410	270

M:	
E..G0G..	30 kg.
E..G2..	40 kg.
E..G3..	45 kg.
E..G5..	65 kg.
E..G7..	135 kg.
E..G8..	320 kg.





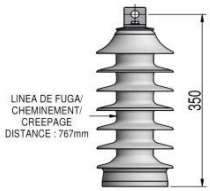




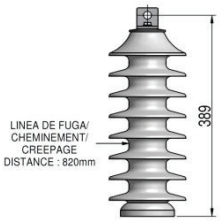
PRIMARY TERMINAL

R

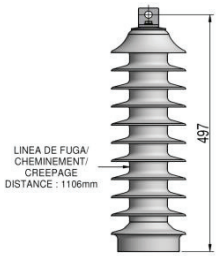
P



G



M



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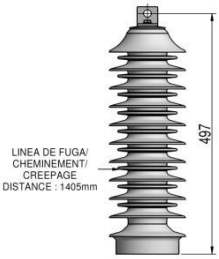
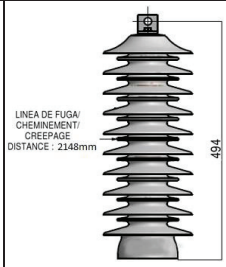


Y



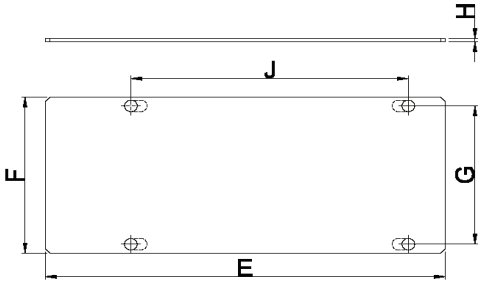
SECONDARY TERMINALS

PLASTIC BOX		METALLIC BOX				CABLE
Taps:	M6 Screws	Taps:	M6 Screws	Taps:	M6 Screws	2 / 3 / 4 / ... copper wire cable.
Protection: (Optional)	White Sealable box	Protection: (Optional)	Stainless Steel	Protection: (Optional)	Stainless Steel	Different cross section depending on maximal burden.
	IP65		IP53		IP54	With or without Ground wire.
	PG11+PG21 tap		2x PG21 + 2x breathers + ground		2x PG16 + 1x breathers	V0 capable.

SURFACE FINISH / COATING

Metallic coating / Touchproof	Polyurethane Coating	Silicone Coating

STANDARD BASE PLATES / FIXING BRACKETS



mm.	E	F	G	J
E..G0G..	340	290	240	270
E..G2..	433	186	165	300
E..G3..	310	180	150	290
E..G5..	340	290	240	270
E..G7..	600	340	300	500
E..G8..	700	420	370	670

E..G0G..	H.: 5
E..G2..	H.: 5
E..G3..	H.: 16
E..G5..	H.: 5
E..G7..	H.: 20
E..G8..	H.: 20

E..G0G..	Fixing Holes: 15 x 10
E..G2..	Fixing Holes: Ø 11
E..G3..	Fixing Holes: Ø 11
E..G5..	Fixing Holes: ° 15 x 10
E..G7..	Fixing Holes: Ø 12.5
E..G8..	Fixing Holes: Ø 12.5