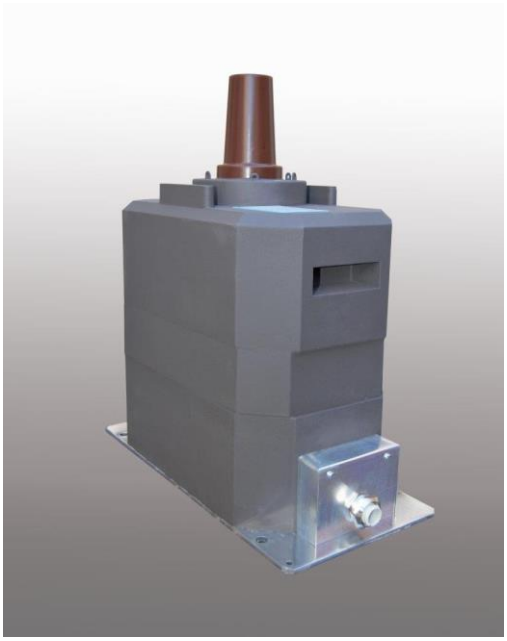
VKE-36

VOLTAGE TRANSFORMER



DESCRIPTION

HV voltage transformer to measure and/or protect up to 36 kV, used for measurement instruments, meters, relays and other similar devices. It was designed to be used in HV cells insulated with SF_6 gas, in any mounting position.

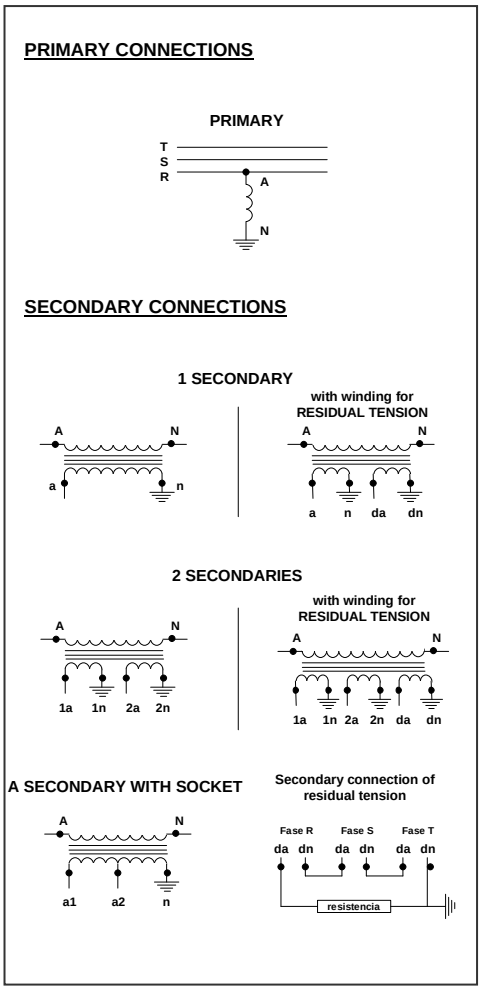
This model VKE-36 allows the connection to the primary winding through a plug designed according to UNE-EN 50181. The transformer is shielded by means of a conductive cover that allows the mounting of the transformers without any safety distance between them. It can be supplied without shield on request (Ref. VKE-36SP).

The primary winding is encapsulated with class E epoxy resin (acc./IEC 60085). The core and the secondary windings are outside the epoxy block. Because of the characteristics of this constructive configuration there is no risk of fragment projection.

MECHANICAL CHARACTERISTICS

- Screws tightening torque:
  - M6 Terminals: 2.5 N.m
  - Base fixings M10: 38 N.m
  - Earth terminal M8: 6 N.m
- Cover of secondary terminals in zinc plated steel with seal.
- Base plate of zinc plated iron of 5 mm thick.
- Approximate weight: 40 kg

CONNECTIONS



CLASSES AND BURDENS (*)

ONE SECONDARY

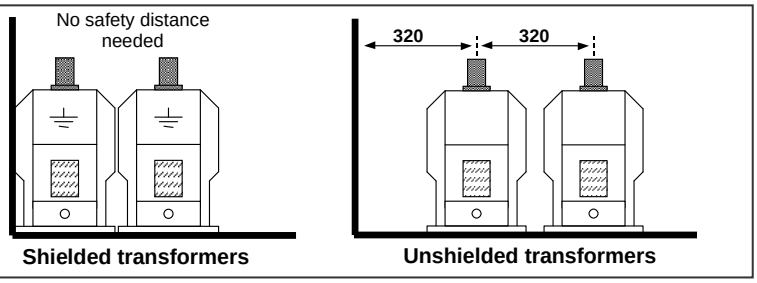
Burden	Accuracy	Thermal power at 20-30ºC room temperature
30 VA	0.2	650 VA (Without class)
50 VA	0.5	
100 VA	1	
200 VA	3P	
200 VA	6P	

TWO SECONDARIES

Burden 1st sec	Accuracy 1st sec	Burden 2nd sec	Accuracy 2nd sec	Thermal power at 20-30ºC room temperature
15 VA	0.2	15 VA	0.2	650 VA (Without class)
25 VA	0.5	25 VA	0.5	
50 VA	1	50 VA	1	
100 VA	3P	100 VA	3P	
100 VA	6P	100 VA	6P	

(*) Upon request, other classes and ratios different from those in the table can be budgeted.

SUGGESTED DISTANCES (mm)



Laboratorio Electrotécnico

ELECTRICAL CHARACTERISTICS

		IEC 61869-1 and -3
Highest voltage for the equipment (U_m) (kV)		36
Rated primary voltage (kV)		36
Power frequency withstand voltage	Primary	70
	Secondary	3
Induced voltage, 200 Hz 30 sec (kV)		70
Lightning impulse withstand voltage (peak value) (kV)		170
Rated secondary voltage (U_{sn}) (kV)		100:√3 ó 110:√3 ó 110:3 or 230
Rated frequency (f) (Hz)		50/60
Rated voltage factor (U_n) (kV)	Power	1,2 U_{pn} continuous
	Measurement and protection	1,9 U_{pn} during 8h

DIMENSIONS (mm)

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