



DESCRIPTION

HV voltage transformer to measure and/or protect up to 24 kV, used for measurement instruments, meters, relays and other similar devices. It was designed to be used in HV cells insulated with SF₆ gas, in any mounting position.

This model VKE-24 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, since the surface of the device is grounded.

On request, it can be supplied without shield on request (Ref. VKE-36SP) although in this case they should be installed in air cells complying with the safety distances corresponding to the insulation level.

The range of VKE transformers has been designed taking into account the environment – no fluoridated oil or gas have been used as insulation material.

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

- Tightening torque for the nuts and bolts:
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.
- Iron base plate with passivated zinc coating, 5 mm thick.
- Approximate weight of device: 28 kg

CLASS AND BURDEN TABLE (*)

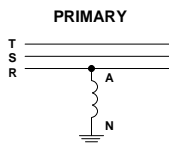
	Accuracy			Accuracy		Accuracy	
	0.2	0.5		1 ^{er} sec	2 ^{er} sec	1 ^{er} sec	2 ^{er} sec
ONE SECONDARY	0.2	30 VA	TWO SECONDARIES	0.2	15 VA	0.2	15 VA
	0.5	50 VA		0.5	25 VA	0.5	25 VA
	1	100 VA		1	50 VA	1	50 VA
	3P	200 VA		3P	100 VA	3P	100 VA
	6P	200 VA		6P	100 VA	6P	100 VA

Thermal power at 20-30°C room temperature 650 VA (without class)

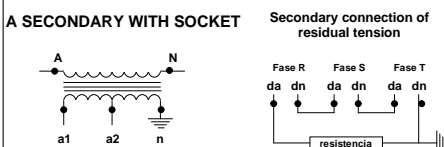
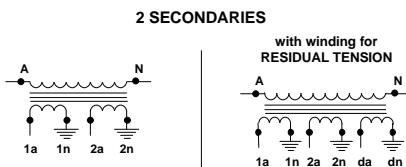
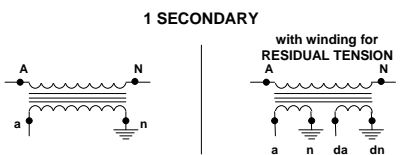
(*) Upon request, other classes and ratios different from those in the table can be budgeted.

CONNECTIONS

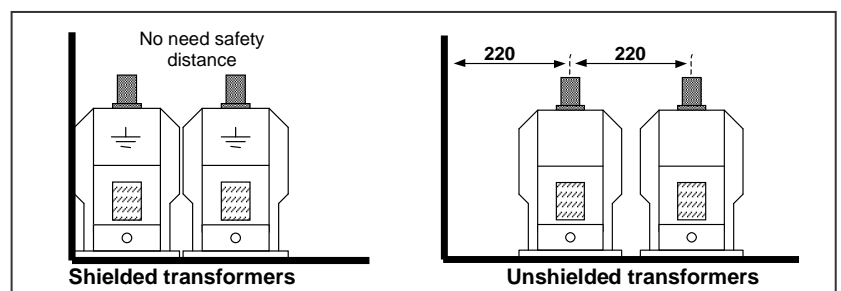
PRIMARY CONNECTIONS



SECONDARY CONNECTIONS



SUGGESTED DISTANCES (mm)



ELECTRICAL CHARACTERISTICS

		IEC 61869-1 and -3
Highest voltage for the equipment (U_m) (kV)		24
Rated primary voltage (kV)		24
Power frequency withstand voltage	Primary	50
	Secondary	3
Induced voltage, 200 Hz 30 sec (kV)		50
Lightning impulse withstand voltage (peak value) (kV)		125
Rated secondary voltage (U_{sn}) (kV)		100: $\sqrt{3}$ ó 110: $\sqrt{3}$ ó 110:3 ó 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)

