VKEF-24/36

VOLTAGE TRANSFORMER

Indoor service

DESCRIPTION

High voltage instrument/protection transformers for measuring instruments, meters, relays, and similar devices up to 24/36 kV. For outdoor purpose.

The primary winding is cast in E Class cycloaliphatic resin (according to regulation CEI 60085), the magnetic core and the secondary coil are outside of the embodiment.

Excellent resin resistance to atmospheric agents, as wet, rain, UV light... and dust and most of chemical products.

Single phase: for connection between phase and earth, with a single insulated pole.

Both vertical and horizontal installations are possible.

The VKEF instrument transformers are SF_6 gas and oil free.

MECHANICAL CHARACTERISTICS

- Tightening torque:

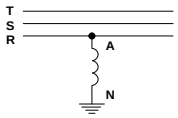
M6 Terminals:	2.5 N.m	Earth terminal M12:	20 N.m
M12 Terminals:	20 N.m	Base fixings M12:	65 N.m

- Brass primary terminal and steel grounding terminal.
- Metallic secondary terminals box with PG cable glands.
- Galvanized iron finished transformer base.
- Approximate weight: 99 kg
- Standard creepage distance: 770 mm
- Arch distance: 415 mm
- Maximum size: 613 mm

CONNECTIONS

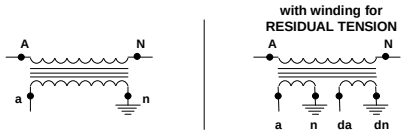
PRIMARY CONNECTIONS

PRIMARY



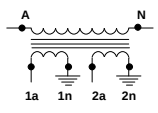
SECONDARY CONNECTIONS

1 SECONDARY

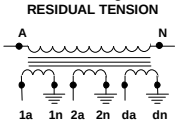


with winding for RESIDUAL TENSION

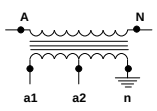
2 SECONDARIES



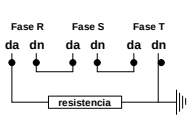
with winding for RESIDUAL TENSION



A SECONDARY WITH SOCKET



Secondary connection of residual tension



ORIENTATIVE SERVICES

CLASS	OVERVOLTAGE FACTOR (VA) (*)		THERMAL BURDEN (VA) 20-30 ºC ambient
	1'2 Upn Cont		
	1'5 Upn / 30 s	1'9 Upn / 8 h	
0'2	50	25	750
0'5	200	100	
1	400	200	
3P	500	250	
6P	600	300	

(*) approximate values.

Laboratorio Electrotécnico

ELECTRICAL CHARACTERISTICS

		IEC 61869-1 and -3	
		VKEF-24	VKEF-36
Highest voltage for equipment (U_m) (kV)		24	36
Highest system voltage (kV)		24	36
Power frequency withstand voltage (kV)	Primary	50	70
	Secondary	3	3
Induced voltage, 200 Hz 30 sec (kV)		50	70
Rated lightning impulse withstand voltage (peak) (kV)		125	170
Secondary assigned voltage (U_{sn}) (kV)		100:√3 ó 110:√3 ó 110:3	
Assigned frequency (f) (Hz)		50/60	
Admissible surge continuously (U_n) (kV)		1'2 Upn	

DIMENSIONS (mm)