

KGUGI Indoor Voltage Transformers



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Technical parameters

Highest voltage for equipment	[kV]	24, 36
Power frequency test voltage, 1 min.	[kV]	50, 70
Lightning impulse test voltage	[kV]	125, 170
Rated burden, classes	[VA/cl]	80/0.2 - 250/0.5 - 500/1
Residual windin	[VA/cl]	up to 600/6P



Description

The KGUGI single-pole insulated voltage transformers are casted in epoxy resin and designed mostly for insulation voltages of 24 to 36 kV.

Insulation voltages different from the above are to be the subject of an agreement between the manufacturer and the customer.

If no other value is required the transformers are manufactured with a overvoltage factor of $1.9 \times U_n/8$ hrs. One outlet of the primary winding, including the respective terminal is insulated from the earth to a level which corresponds to the rated insulation value. The other outlet of primary winding with terminal is earthed during the operation.

The transformer is mostly equipped with two secondary windings, the first one for either measuring or protection purposes, the other for being connected into an open-delta connection in a three-phase system. One terminal of each secondary winding and one of the open-delta connected terminals have to be earthed during the transformer operation. When not required otherwise the secondary windings are lead out into a casted-type secondary terminal board. The transformer can be mounted in any position. The transformers are fixed by four screws, the M8 bolted earthing clamp is located on the transformer base plate. The secondary terminal board is covered with a voltage sealable cover.

Dimensions

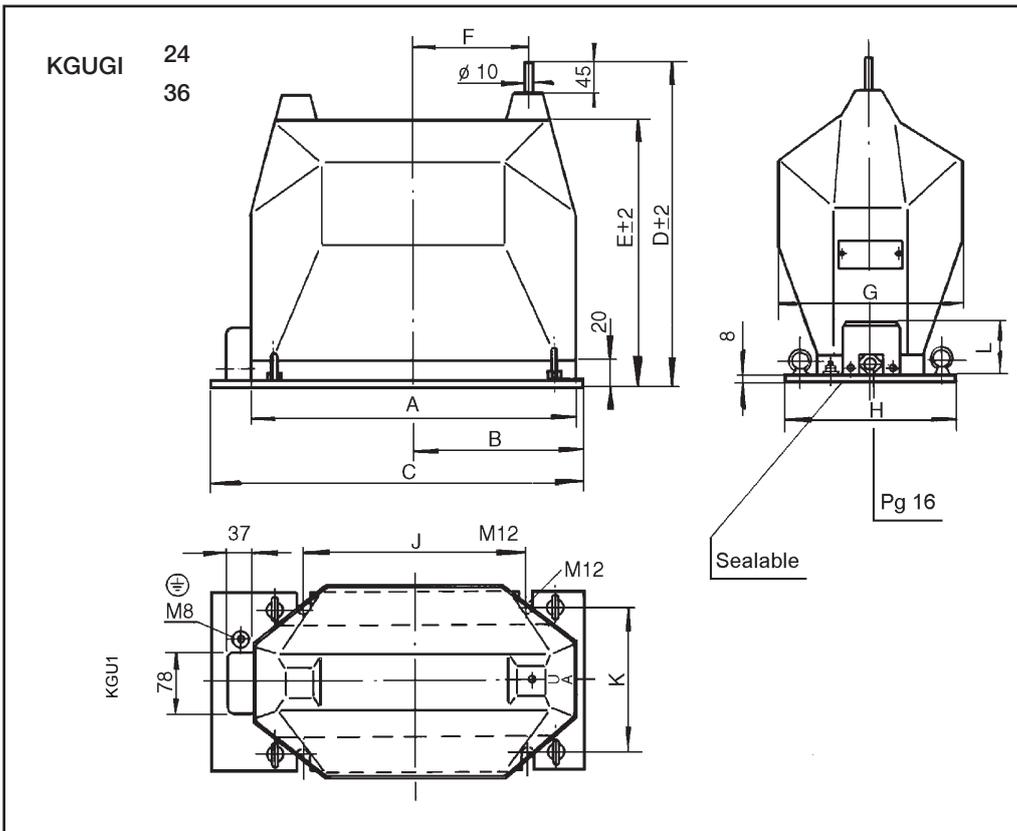
Rated primary voltages ... $15/\sqrt{3}$ kV; $20/\sqrt{3}$ kV; $22/\sqrt{3}$ kV; $30/\sqrt{3}$ kV; $33/\sqrt{3}$ kV; $35/\sqrt{3}$ kV

Other primary voltages can also be supplied on request. Rated secondary voltages... $100/\sqrt{3}$ V; $110/\sqrt{3}$ V – accuracy classes 0.2; 0.5; 1 (measuring winding) or 3P; 6P (protection winding). Other secondary voltages can also be supplied on request. Rated voltages for open-delta connection: ... $100/3$ V; $110/3$ V - class 6P. Other voltages for open-delta connection can also be supplied based on customer requirement. Rated frequency ... 50 Hz; 60 Hz. The transformers are manufactured conformably to the requirements and recommendations of the following standards and regulations: IEC, SEV, VDE, ANSI, BS, GOST and ČSN.

Single pole voltage transformers

Type	Rated output in accordance with IEC, SEV, BS and VDE, 50 and 60 Hz, in classes				Rated burden in accordance with ANSI, 60 Hz, in classes			Maximum thermal output in VA per v.t. 50 and 60 Hz
	0.2	0.5	1	3	0.3	0.6	1.2	
KGUGI 24	80	250	500	1000	WXY	WXYZ	WXYZ, ZZ	1500
KGUGI 36	150	400	750	1500	WXY (YY)	WXYZ, ZZ	WXYZ, ZZ	2000

Dimensions



Type	A	B	C	D	E	F	D	H	J	K	L	m/kg
KGUGI 24	391	202	455	376	320	100	222	215	260	179	72	approx. 60
KGUGI 36	443	227	505	427	348	155	248	230	300	186	72	approx. 80

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