

TC, TC3 series TRANSFORMERS of 10 kV voltage class

TC, TC3 series three-phase dry-type transformers *with Nomex insulation* are intended for electric energy transforming at 50 Hz rated frequency a.c. consumers. Winding connection/vector group: Yyn0.

LV-winding heat resistance: **H class**, HV-winding heat resistance: **F class**.

Up to $\pm 5\%$ voltage regulation in 2.5 % steps is carried out *with a fully de-energized transformer* (power-off changing) through resettling of a jumper.

TC type is of **IP00** protection degree; TC3 type is of **IP21** protection degree.

Transformers are designed for indoor operation, under moderate climatic conditions, at ambient air temperature ranging $+40\text{ }^{\circ}\text{C}$ to $-45\text{ }^{\circ}\text{C}$ and relative air humidity up to 80 % at $25\text{ }^{\circ}\text{C}$.

Operable at altitude elevation above sea level not more than 1000 m.

Transformers are assigned for operation in inexplusive environments carrying no current-conducting dust. Transformers are not assigned for operation in chemically active environments.

Transformers are intended for installation in industrial facilities and public buildings of higher-than-usual requirements for fire safety and ecological cleanness.

Transformers specifications are given in the Table below.

TC series transformers specifications

Transformer type	Rated power, kV·A	Loss, W		No-load current, %	Short-circuit voltage, %	Dimensions, mm							Mass, kg
		no-load	short-circuit			L	H	H ₁	b	b ₁	b ₂	h	
TC-25/10	25	150	600	2.8	4.5	770	860	655	260	150	200	765	250
TC3-25/10						1065	1400	655	—	—	—	—	325
TC-40/10	40	255	880	2.6	4.5	810	920	715	270	160	210	825	340
TC3-40/10						1065	1400	715	—	—	—	—	415
TC-63/10	63	300	1280	1.8	4.5	850	930	725	275	165	215	835	370
TC3-63/10						1165	1400	725	—	—	—	—	445
TC-100/10	100	400	1720	1.6	4.5	890	1105	900	280	170	220	1010	505
TC3-100/10						1165	1400	900	—	—	—	—	580

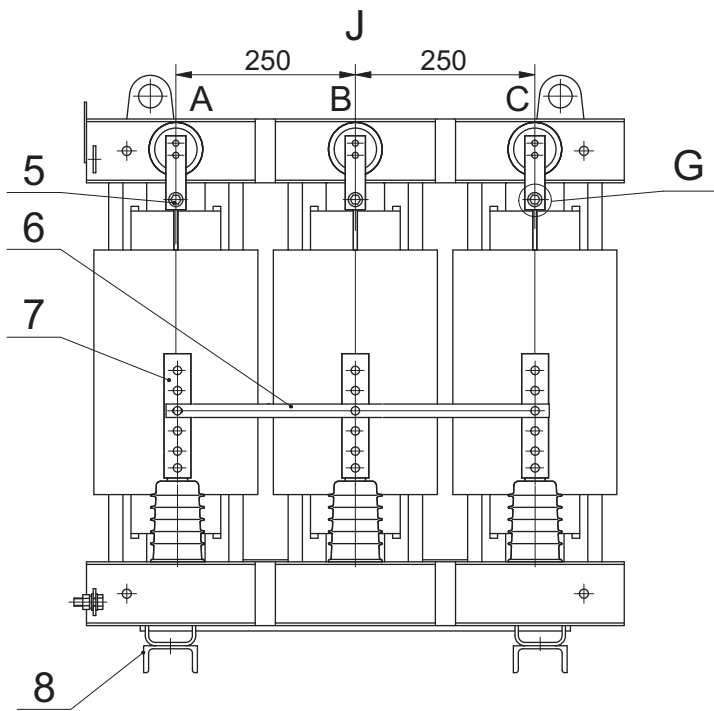
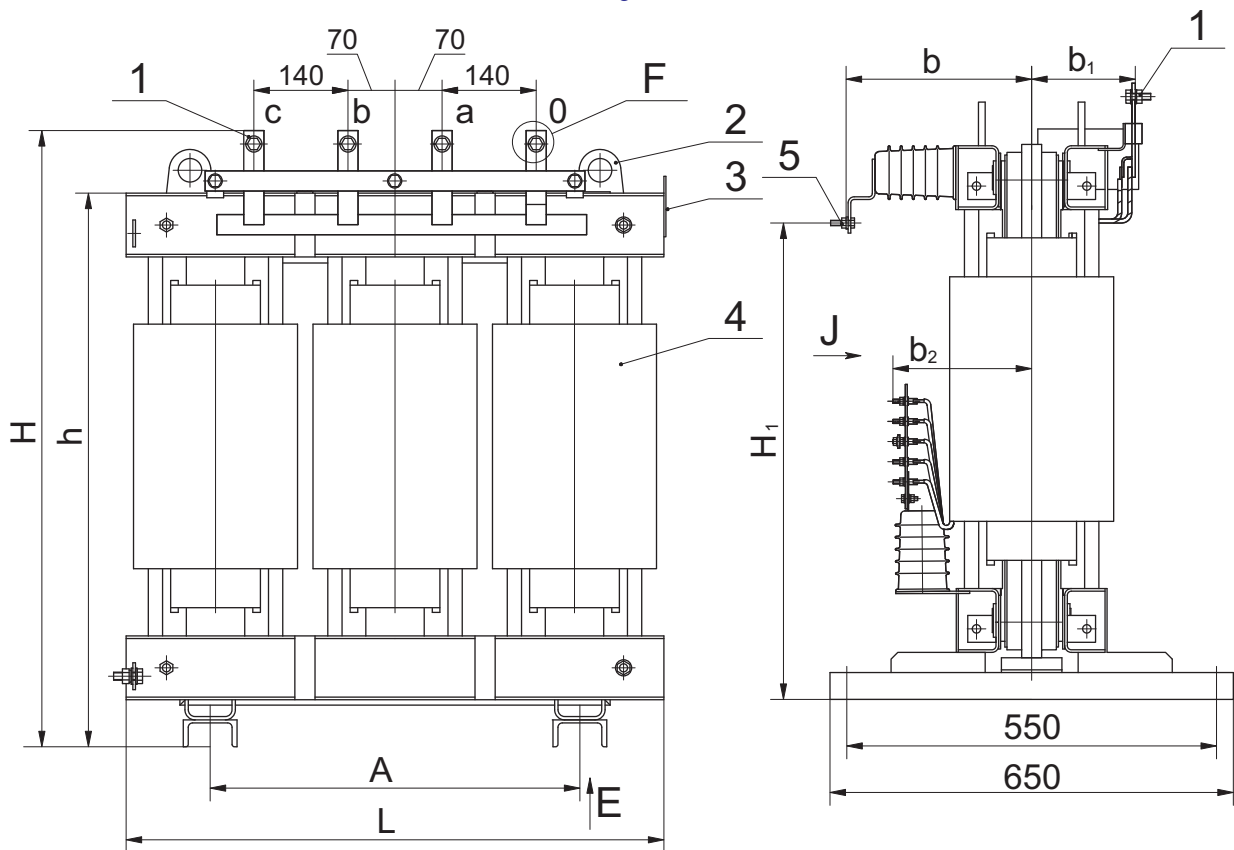


TC 40 kV·A

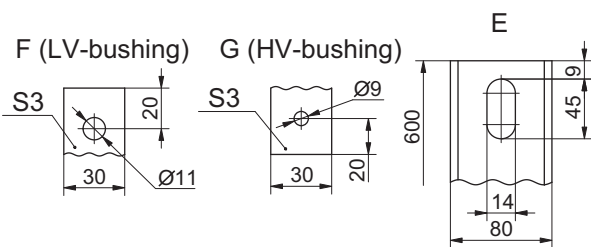


TC3 100 kV·A

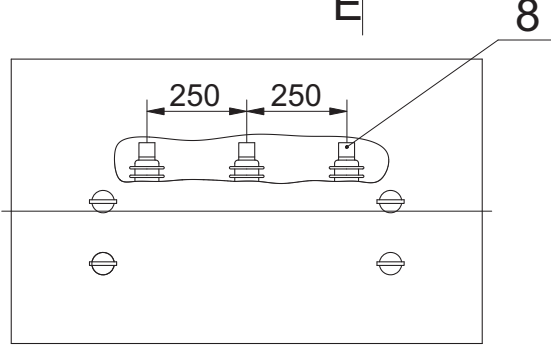
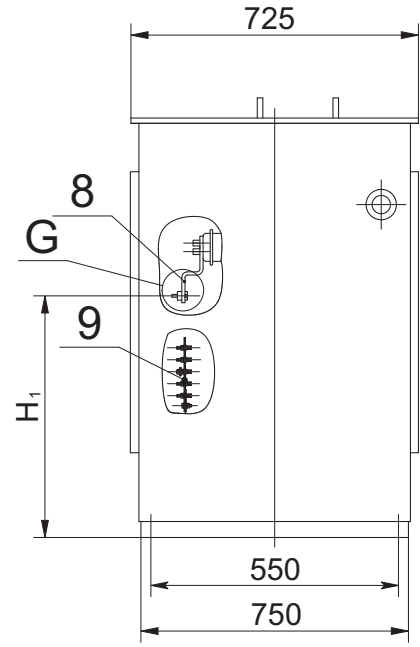
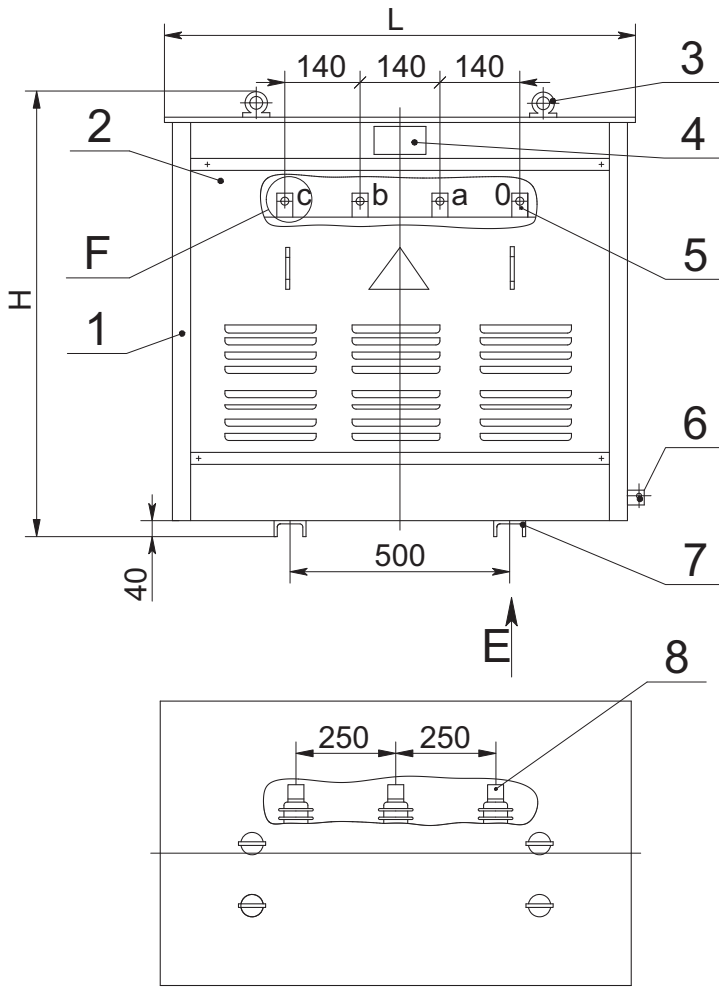
TC transformer



- 1 - LV-bushing
- 2 - eye-ring for transformer boosting
- 3 - nameplate
- 4 - winding
- 5 - HV-bushing
- 6 - jumper
- 7 - voltage regulation strip
- 8 - channel



TC3 transformer



- 1 - enclosure
- 2 - enclosure removable walls
- 3 - ring for transformer hoisting
- 4 - nameplate
- 5 - LV-busbar
- 6 - earth unit
- 7 - channel
- 8 - HV-bushing
- 9 - voltage regulation strip

F (LV-bushing)

G (HV-bushing)

E

