

OM, OMII, OMF types TRANSFORMERS

Single-phase OM, OMII, OMF types transformers are intended for transforming of electric energy in networks of power systems, for power supply to signalling equipment and automatic lock-out devices at railroads, as well as for power supply to other single-phase demands.

Transformers are designed for operation under conditions of moderate (+40 °C to -45 °C) or cold-temperate (+40 °C to -60 °C) climate.

Winding connection/vector group: Ii0. Rated frequency: 50 Hz.

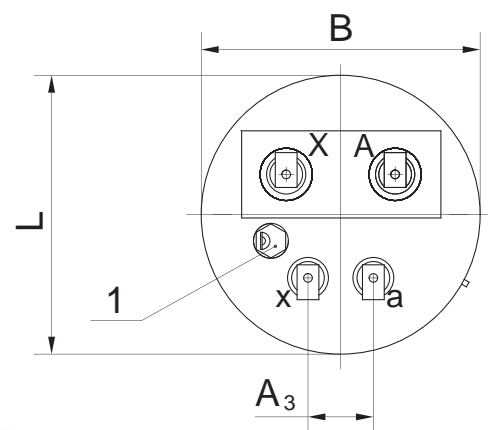
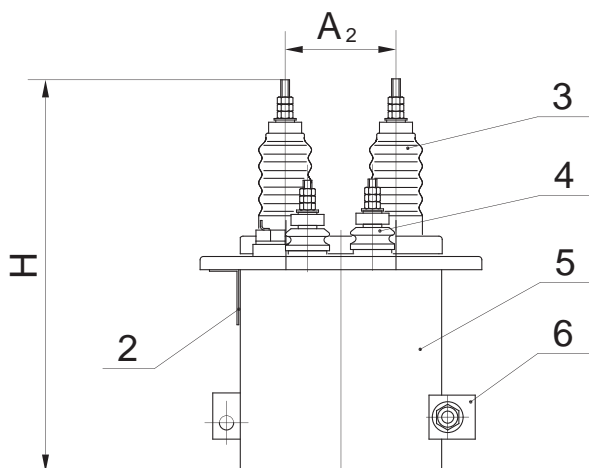
Voltage regulation (OM-0.25/3 excluded) is carried out **with fully de-energized transformers** (power-off changing) by way of tap changing.

Transformers are assigned for operation in inexplusive environments excluding dust content that could affect transformer parameters to inadmissible limits.

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

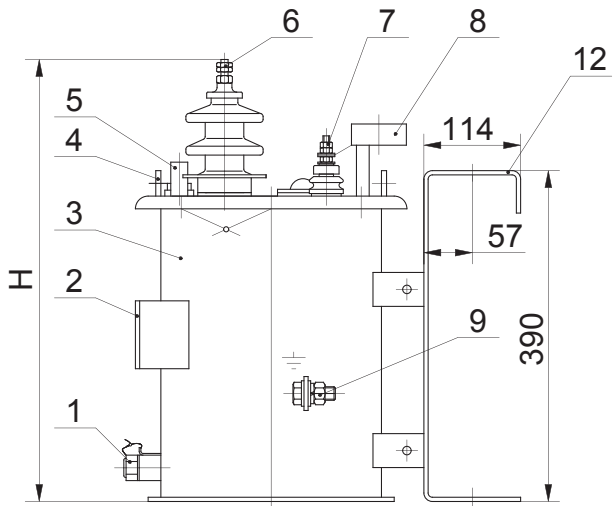
OM, OMII, OMF types transformers specifications

Transformer type	Rated power, kV·A	Rated voltage, kV		Loss, W		No-load current, %	Short-circuit voltage, %	Dimensions, mm										Mass, kg	
		HV	LV	no-load	short-circuit			L	B	H	H ₁	A	A ₁	A ₂	A ₃	h	h ₁	of oil	total
OM-0.25/3	0.25	3	0.105	12	15	22.0	4.5	260	260	360	—	—	—	100	60	—	—	3,8	14
OM-1.25/10	1.25	6;10	0.23	20	60	19.0	5.5	475	350	640	—	220	220	170	100	—	—	10	45
OM-2.5/10	2.5	6;10	0.23	40	90	15.0	5.0	530	400	705	—	270	270	180	160	—	—	18	68
OM-2.5/27.5	2.5	27.5	0.23	40	90	15.0	6.0	560	390	1070	415	350	270	—	60	—	—	31	110
OMII-4/10	4	6;10	0.23	45	140	5.0	3.5	530	600	670	565	350	270	185	90	435	330	32	100
OM-4/27.5	4	27.5	0.23	60	130	12.0	4.0	560	390	1070	415	350	270	—	60	—	—	29	130
OMII-10/10	10	6;10	0.08 0.09 0.23	70	270	5.5	3.5	530	600	730	635	350	270	185	90	505	400	34	110
OMI-10/27.5	10	27.5	0.23	90	285	4.0	5.5	670	620	1120	565	260	400	—	200	—	—	71	260

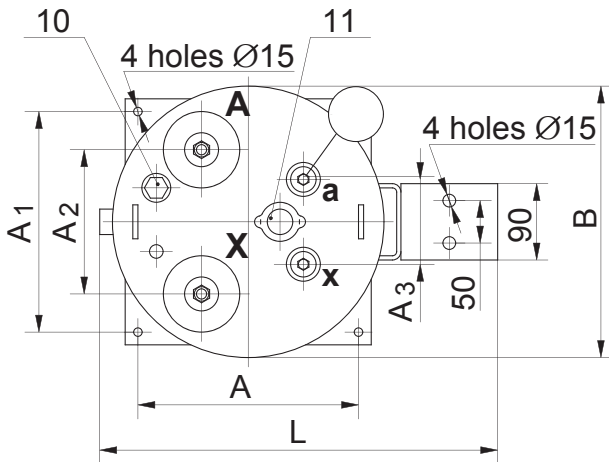


OM 0.25/3

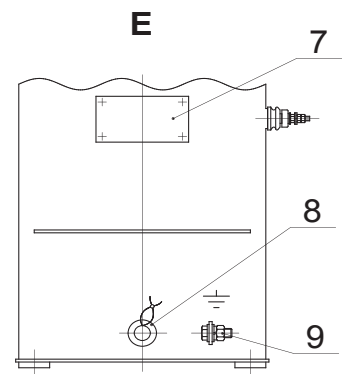
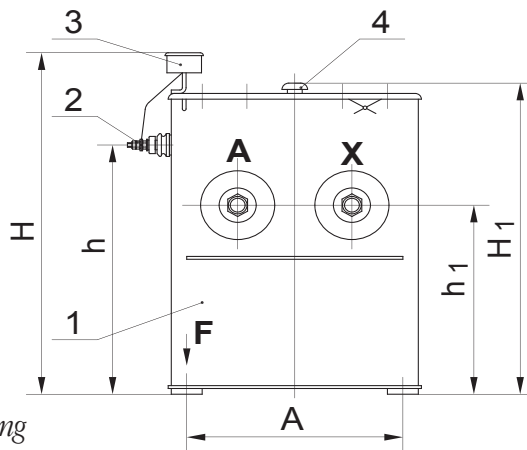
- 1 - plug
- 2 - nameplate
- 3 - HV-bushing
- 4 - LV-bushing
- 5 - tank
- 6 - earth terminal



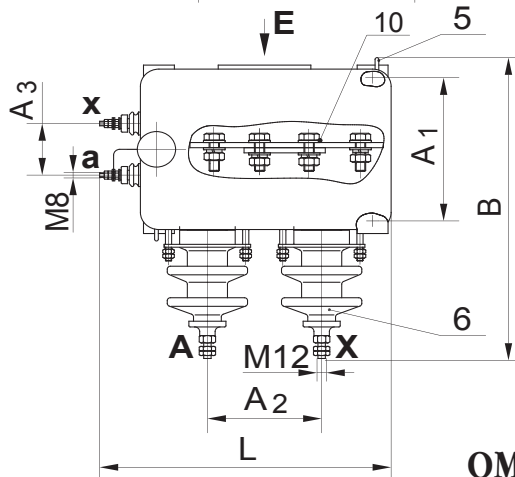
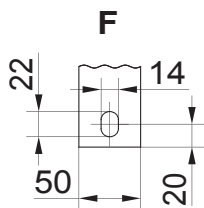
- 1 - oil drain plug
- 2 - nameplate
- 3 - tank
- 4 - eye-ring for transformer hoisting
- 5 - release valve
- 6 - HV-bushing
- 7 - LV-bushing
- 8 - film cut-out
- 9 - earth unit
- 10 - oil-level indicator
- 11 - voltage regulation terminals
- 12 - bracket (option)



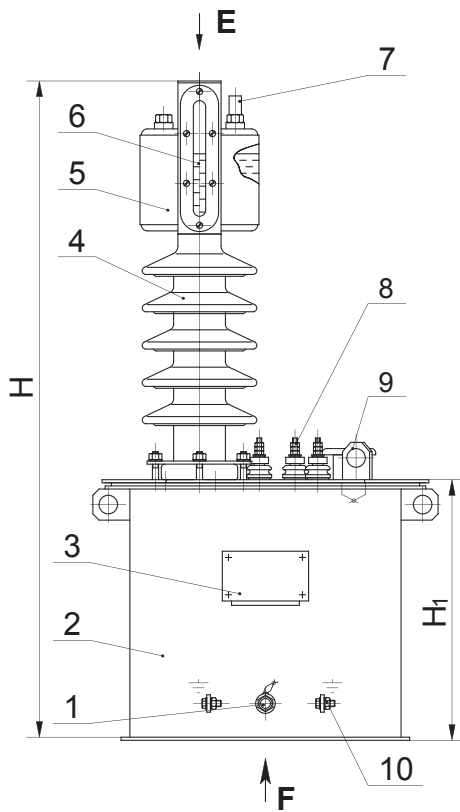
OM 1.25/10; OM 2.5/10



- 1 - tank
- 2 - LV-bushing
- 3 - film cut-out
- 4 - oil-level indicator
- 5 - eye-ring for transformer hoisting
- 6 - HV-bushing
- 7 - nameplate
- 8 - oil drain plug
- 9 - earth unit
- 10 - voltage regulation terminals



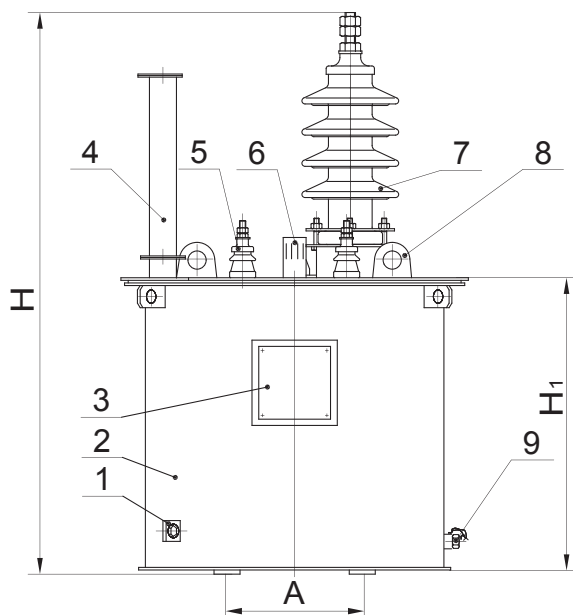
OMII 4/10; OMII 10/10



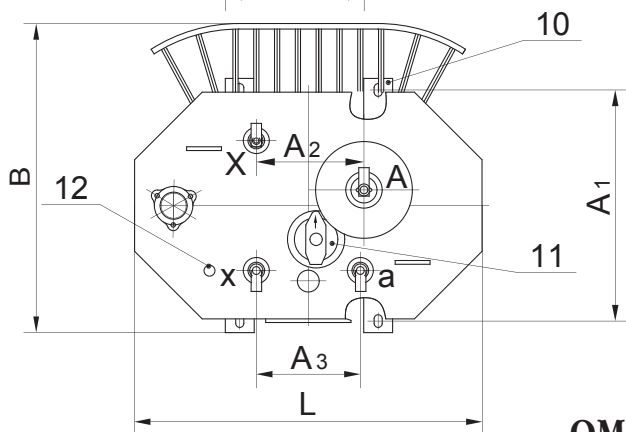
- 1 - oil drain plug
- 2 - tank
- 3 - nameplate
- 4 - HV-bushing
- 5 - oil conservator
- 6 - oil-level indicator
- 7 - release valve
- 8 - LV-bushing
- 9 - eye-ring for transformer hoisting
- 10 - earth unit
- 11 - voltage regulation terminals



OM 2.5/27.5; OM 4.0/27.5



- 1 - earth terminal
- 2 - tank
- 3 - nameplate
- 4 - oil-fill branch
- 5 - HV-bushing
- 6 - oil level indicator
- 7 - LV-bushing
- 8 - eye-ring for transformer hoisting
- 9 - drain plug
- 10 - plate for transformer fastening
- 11 - tap-changer
- 12 - thermometer pocket



OMF 10/27.5