

# VOLTAGE TRANSFORMERS 12-38 kV

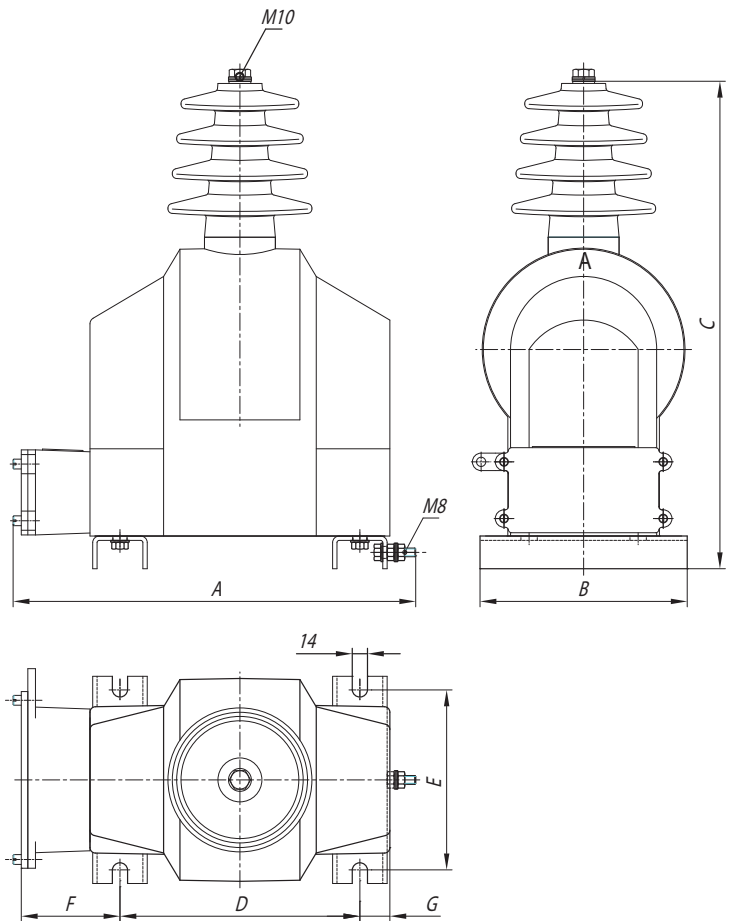
## SINGLE-POLE VOLTAGE TRANSFORMERS FOR OUTDOOR MOUNTING 12-38 kV



### JNT SM-12, JNT SM-24, JNT SM-24/12, JNT SM-36\*



JNT SM-12



### SINGLE-POLE VOLTAGE TRANSFORMERS FOR OUTDOOR MOUNTING JNT-SM\*

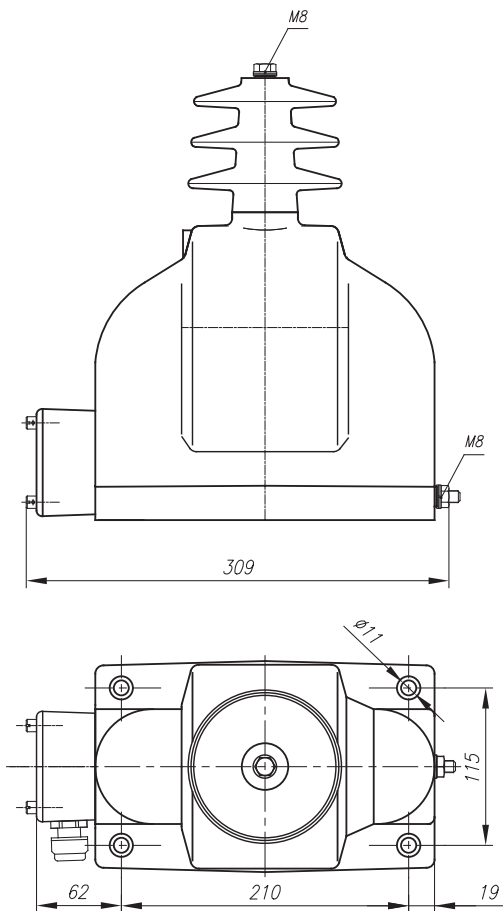
Type of transformer	Dimensions (mm)							Broj rebara	Creeping distance (mm)
	A	B	C	D	E	F	G		
JNT SM-12	366	190	367	209	165	98	21	3	500
JNT SM-24	370	190	447	220	165	90.5	27.5	4	630
JNT SM-24/12	370	190	447	220	165	90.5	27.5	4	630
JNT SM-36-5R	379	225	549	229	200	92	25	5	855
JNT SM-36-6R	379	225	579	229	200	92	25	6	920
JNT SM-36-8R	379	225	626	229	200	92	25	8	1125
JNT SM-36-10R	379	225	695	229	200	92	25	10	1280

TECHNICAL DATA	JNT SM-12	JNT SM-24	JNT SM-24/12	JNT SM-36*
Rated primary voltage (kV)	10/√3	20/√3	20/√3//10/√3	35/√3
Highest voltage for equipment (r.m.s.) (kV)	12	24	24	38(40.5)
Rated secondary voltage (V)	100/√3 or 110/√3			
Rated tertiary voltage (V)	100/3 or 110/3			
Rated power-frequency withstand voltage (kV)	28	50	50	70 or 95
Rated impulse voltage 1.2/50 μs (kV)	75	125	125	170 or 195
Rated frequency (Hz)	50/60			
Maximal rated power for accuracy class 0.2 (VA)	25	30	30/10	30
Maximal rated power for accuracy class 0.5 (VA)	75	75	75/25	100
Maximal rated power for accuracy class 1 (VA)	150	150	150/50	200
Rated tertiary power (VA)	25; 50; 100			
Rated tertiary accuracy class	3P; 6P			
Rated voltage factor	1.9/8h			
Additional resistance in the tertiary circuit (W)	25	25	25	16.5
Limiting thermal power (VA)	600	600	600/300	800
Mass (kg)	25.9	31.5	32.5	43
Temperature insulation class	E/B			
Type of basic insulation	Epoxy resin			
Valid standards	IEC 61869-1; IEC 61869-3			

#### NOTE:

These transformers we can produce also for the following rated voltages: 3/√3; 5/√3; 6/√3; 11/√3; 15/√3; 22/√3 and 30/√3 kV. On the customer's request we are able to produce these transformers with other combinations of transformation ratios, accuracy class, rated power and voltage factor. Due to the prevention of ferro-resonant phenomenon, when 3 single-pole voltage transformers are used in networks with an isolated neutral point, it is necessary to put additional resistance in their open triangle tertiary circuit. The resistance value is given in the table. Please state rated voltages for primary, secondary and tertiary winding, rated power and accuracy class for each winding when ordering. We keep the right for a change. \* - valid for all sub-types.

### JNT SM-10



JNT SM-10

### SINGLE-POLE VOLTAGE TRANSFORMERS WITH REDUCED RATED POWER FOR OUTDOOR MOUNTING **JNT-SM 10**

TECHNICAL DATA	JNT SM-10
Rated primary voltage (kV)	10/ $\sqrt{3}$
Highest voltage for equipment (r.m.s.) (kV)	12
Rated secondary voltage(V)	100/ $\sqrt{3}$ or 110/ $\sqrt{3}$
Rated tertiary voltage (V)	100/3 or 110/3
Rated power-frequency withstand voltage (kV)	28
Rated impulse voltage 1.2/50 $\mu$ s (kV)	75
Rated frequency(Hz)	50/60
Maximal rated power for accuracy class 0.2 (VA)	15
Maximal rated power for accuracy class 0.5 (VA)	50
Maximal rated power for accuracy class 1 (VA)	100
Rated tertiary power (VA)	25; 50; 100
Rated tertiary accuracy class	3P; 6P
Rated voltage factor	1.9/8h
Additional resistance in the tertiary circuit (W)	25
Limiting thermal power (VA)	400
Creeping distance (mm)	465
Mass (kg)	18.2
Temperature insulation class	E/B
Type of basic insulation	Epoxy resin
Valid standards	IEC 61869-1; IEC 61869-3

#### NOTE:

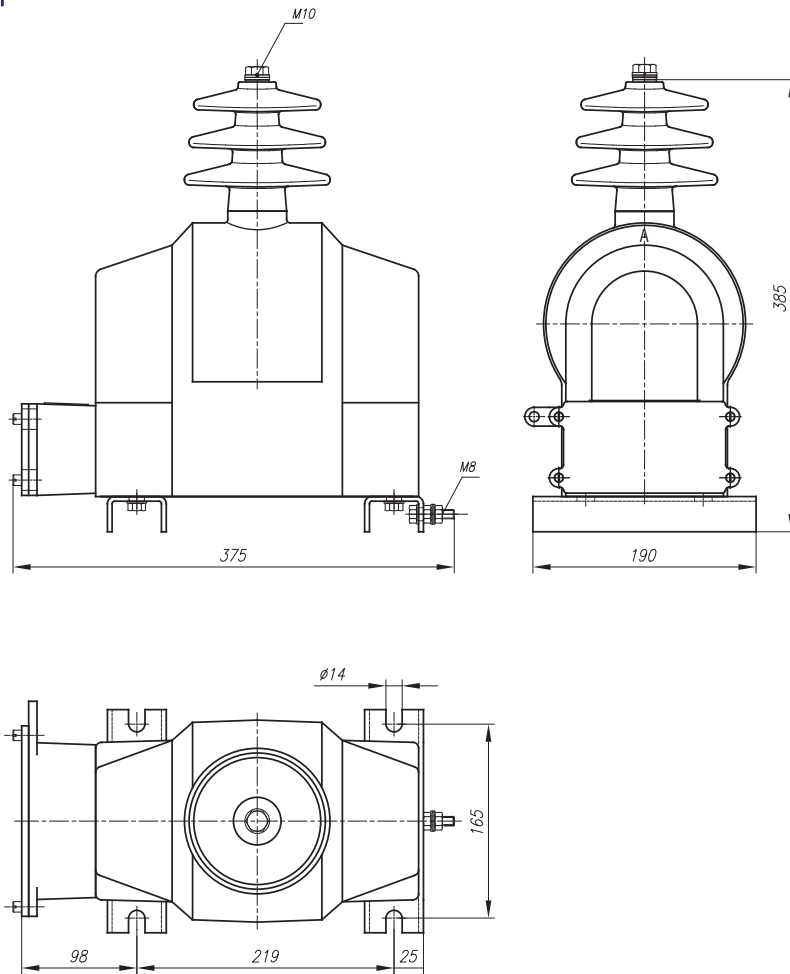
These transformers we can produce also for the following rated voltages: 3/ $\sqrt{3}$ ; 5/ $\sqrt{3}$ ; 6/ $\sqrt{3}$  and 11/ $\sqrt{3}$  kV. On the customer's request we are able to produce these transformers with other combinations of transformation ratios, accuracy class, rated power and voltage factor.

Due to the prevention of ferroresonant phenomenon, when 3 single-pole voltage transformers are used in networks with an isolated neutral point, it is necessary to put additional resistance in their open triangle tertiary circuit. The resistance value is given in the table. Please state rated voltages for primary, secondary and tertiary winding, rated power and accuracy class for each winding when ordering.

We keep the right for a change.



### JNTm2 SM-24, JNTm2 SM-24/12



JNTm2 SM-24

### SINGLE-POLE VOLTAGE TRANSFORMER WITH REDUCED RATED POWER FOR OUTDOOR MOUNTING

#### JNTm2 SM-24, JNTm2 SM-24/12

TECHNICAL DATA	JNTm2 SM-24	JNTm2 SM-24/12
Rated primary voltage (kV)	20/√3	20/√3/10/√3
Highest voltage for equipment (r.m.s.) (kV)	24	
Rated secondary voltage (V)	100/√3 or 110/√3	
Rated tertiary voltage (V)	100/3 or 110/3	
Rated power-frequency withstand voltage (kV)	50	
Rated impulse voltage 1.2/50 μs (kV)	125	
Rated frequency (Hz)	50/60	
Maximal rated power for accuracy class 0.2 (VA)	15	-
Maximal rated power for accuracy class 0.5 (VA)	50	50/15
Maximal rated power for accuracy class 1 (VA)	100	75/25
Rated tertiary power (VA)	25; 50; 100	
Rated tertiary accuracy class	3P; 6P	
Rated voltage factor	1.9/8h	
Additional resistance in the tertiary circuit (W)	25	
Limiting thermal power (VA)	400	400/200
Creeping distance (mm)	535	
Mass (kg)	27.5	28
Temperature insulation class	E/B	
Type of basic insulation	Epoxy resin	
Valid standards	IEC 61869-1; IEC 61869-3	

#### NOTE:

These transformers we can produce also for the following rated voltages: 3/√3; 5/√3; 6/√3; 11/√3; 15/√3 and 22/√3. On the customer's request we are able to produce these transformers with other combinations of transformation ratios, accuracy class, rated power and voltage factor.

Due to the prevention of ferroresonant phenomenon, when 3 single-pole voltage transformers are used in networks with an isolated neutral point, it is necessary to put additional resistance in their open triangle tertiary circuit. The resistance value is given in the table.

Please state rated voltages for primary, secondary and tertiary winding, rated power and accuracy class for each winding when ordering. We keep the right for a change.