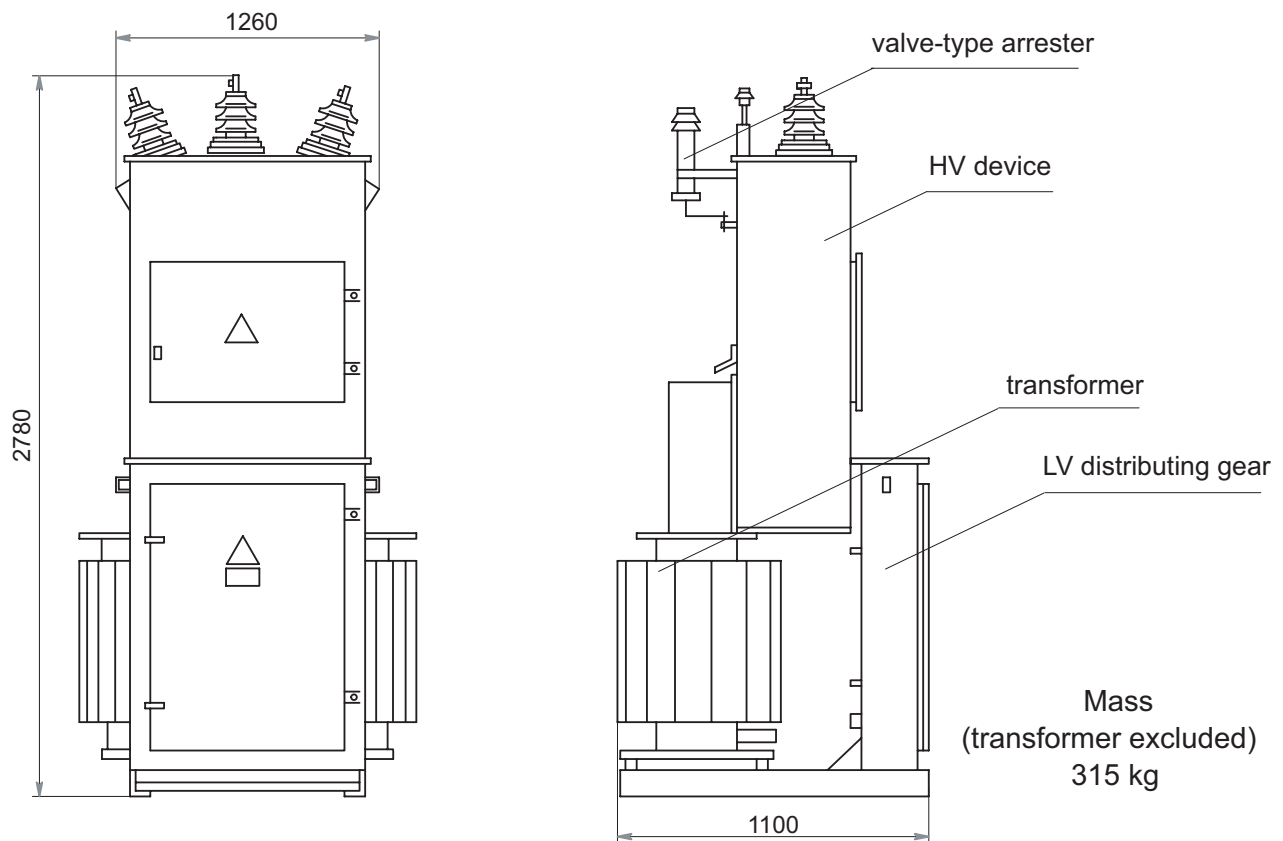


UNITIZED TRANSFORMER SUBSTATIONS OF КТПНД SERIES rating 40-100 kVA and 400-630 kV·A, with a voltage 6(10) kV

КТПНД of cabinet type, rating 40-100 kV·A

КТПНД substations for oil production are for outdoor installation and are intended to receive power frequency electric energy of 6(10) kV to convert it into 0.4 kV for power supply under moderate climatic conditions (from -45°C to +40°C). Substations are designated for energy supply of oil production wells as well as of other industrial units. КТПНД delivery set includes HV disconnecting switch which is to be installed on the nearest transmission line tower. High voltage lead-in is of air (overhead) type, 0.4 kV outgoing lines are of cable type. КТПНД is equipped with interlockings ensuring safety of attending personnel.



Type	Rated voltage, kV	Rated current, A	
		of fuse	of lines automatic release
КТПНД-40/10/0.4	6	10	63
	10	8	
КТПНД-63/10/0.4	6	16	100
	10	10	
КТПНД-100/10/0.4	6	20	160
	10	16	

КТПНД (400; 630 кV·A) of kiosk type

КТПНД are unitized one-transformer substations for outdoor installation and are intended to receive electric energy – three-phase, 50 Hz a.c. of 6 or 10 kV to convert it into 0.4 kV for power supply of various consumers (including petroleum refining plants) under moderate climatic conditions (from -40°C to +40°C). Substations are connected to the nearest transmission line tower through a disconnecting switch.

Specific features of КТПНД substations are as follows:

- natural ventilation in transformer cabinet providing cooling of a power transformer;
- LV distributing gear cabinet is of two-sided attendance access;
- a facility allowing to roll in/roll out a power transformer in/out of a transformer cabinet;
- outgoing lines are fitted with withdrawable automatic circuit-breakers;
- substations are equipped with two sockets to plug in leads for 380 V/60 A and 220V/40 A respectively.

КТПНД is equipped with electrical and mechanical interlocking ensuring safety of attending personnel. HV-side inlet is of air (overhead) type, LV outgoing leads are of cable type.

КТПНД has function of active energy metering. КТПНД is equipped with exterior lighting feeder with automatic ON/OFF switching. Number of outgoing lines and current thereof may vary as per customer's will.

Parameter denomination		Parameter value			
		КТПНД-400		КТПНД-630	
Transformer type		ТМГ-400		ТМГ-630	
Transformer connection / vector group		Yyn-0			
Transformer rated power, kV·A		400		630	
HV rating, kV		6	10	6	10
Transformer rated current at LV side, A		38.5	23.1	60.69	36.4
HV fuse rating, A		80	50	100	80
LV rating, kV		0.4			
Transformer rated current on LV side, A		577.4		910.4	
Outgoing lines current rating, A	No 1	250			
	No 2	160			
	No 3	100			
	No 4	50			
	No 5	25			
	No 6	-	250		
	No 7	-	160		
	No 8	-	100		
	No 9	60			
	No 10	40			
	Lighting line	16			