

INSTAL-SERVICE PL

Spółka z ograniczoną odpowiedzialnością Spółka komandytowa

58-506 Jelenia Góra, ul. Wrocławska 15a

Transformer station type ST-T2/N1M1



The transformer station type ST-T2/N1M1 is a device designed for use in underground mining in excavations with no explosion hazard or in conditions with no methane explosion hazard and designated as class A coal dust explosion hazard.

Transformer station type ST-T2/N1M1 is designed for connecting and switching on receivers (including frequency converters) in the 3-phase mine grid with insulated star point on the transformer (system IT) of rated grid voltage of 1000 and 500VAC.

Transformer station type ST-T2/N1M1 is equipped with a power protections against short-circuits, overloads and lowered insulation resistance and with installed three-core transformer: 800kVA, 1000kVA, 1250kVA and rated upper voltage of (10-6)kV, lower rated voltage 1050V AC and lower rated voltage 525V AC. Transformer has upper rated voltage (10-6)kV and it is adjusted to supply 10kV or 6kV voltage. Electrical equipment of a transformer station at the upper rated voltage is matched to 10 kV rated voltage.

TECHNICAL DATA:

IP54 ingress protection 800, 1000, 1250kVA station rated power station upper voltage rated power 6 or 10kV station lower rated voltage 1050 and 525 V 50 Hz frequency no of phases station upper and lower rated current acc. to Tab.1 lower no of 1000 V outlets lower no of 500 V outlets 2 no of 230V outlets 2 2037(1937 without cable outlets)x1200x4713mm (height x width x length) dimensions

dimensions 2037(1937 without cable outlets)x1200x4713mm (height x width x length weight for power 1250/1000/800kVA 8450/7350/6200 kg

email: instal@instal-service.pl

Table 1

Station rated power	800 kVA	1000 kVA		1250 kVA	
upper rated voltage	(10-6)kV	(10-6)kV		(10-6)kV	
station upper rated current	(46-77) A	(58-96) A		(72-121) A	
Lower rated voltage	1050 V				
rated power for 1050V	550kVA	700kVA	750kVA	750kVA	1000kVA
lower rated current for 1050V	303A	385A	413A	413A	551A
Lower rated voltage	525 V				
rated power for 525V	250kVA	300kVA	250kVA	500kVA	250kVA
lower rated current for 525V	275A	330A	275A	551A	275A
range of regulation	±5 %	±5 %		±5 %	

CONSTRUCTION

The ST station housing is made of steel sheets and steel profiles. It is of a modular design and comprises of the following parts:

- The chamber 6/10 kV (equipped with disconnector protecting the transformer),
- The transformer chamber (with resin transformer),
- The apparatus chamber of 1000V (equipped with the main switch protecting the transformer, leakage protection, monitoring and control circuits)
- The apparatus chamber of 500V (equipped with the main switch protecting the transformer, leakage protection, monitoring and control circuits).

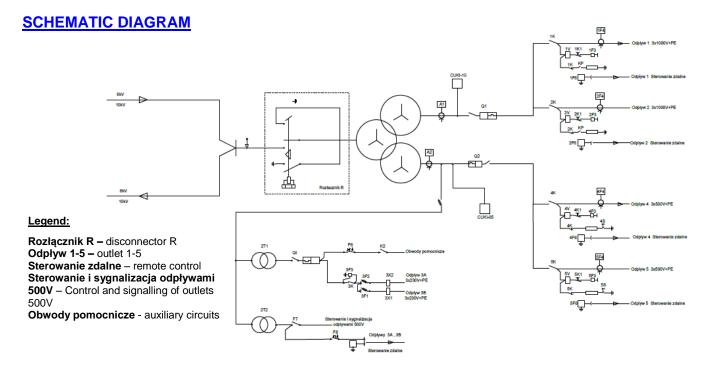
The entire station can be moved at short distances (up to 5 m) on its support structure in form of sledges.

MODE OF OPERATION

Turning-on and turning-off the station is carried out by disconnector R with earthing. Disconnector R is equipped by growing coil. Turning off entire station is carried out by emergency button.

The switching on/switching off of 1000V and 500V outlets are carried out by circuit breakers Q1 i Q2. Isolation condition of 1000 and 525V outlets is protected by central-blocking safety device CUKI-10 and CUKI-05.

The control of 1000 and 525 V outlets are carried out in two control mode: LOCAL or REMOTE.



Orders should be made in writing or by fax to the address:

