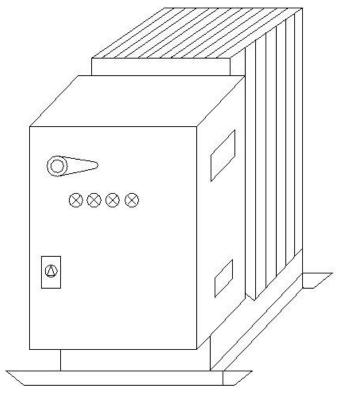
Spółka z ograniczoną odpowiedzialnością Spółka komandytowa

58-506 Jelenia Góra, ul. Wrocławska 15a

# **Switchgear type SFT-1**

for rated voltage 500V



Switchgear SFT-1 (with passive high current harmonic filter) ) is an electrical device designed for use in underground mining, with no explosion hazard present and on the ground, with no explosion hazard present.

Switchgear SFT-1 (with passive high current harmonic filter) is designed for reduction and mitigation current harmonic in wide range loading of receiver (or group receivers), supplied through switchgear with six-peak frequency converter (f.e. type SF-1, SF-2, SF-3) to the mine 3-phase power grid with isolated star point of the transformer (IT system) for 500V rated voltage..

Switchgear with frequency converter (f.e. type SF-1, SF-2, SF-3) is connected to the switchgear SFT-1 via a terminal by cable gland.

Switchgear SFT-1 is equipped with a power protections against short-circuits, excessive growth temperature of filter, lowering earth resistance.

#### **TECHNICAL DATA:**

ingress protection rated power supply voltage range of swing power supply voltage rated power THDi (Total Harmonic Distortion) cooling no of outlets 500V dimensions weight for power (75-110/132/160/200 kW) IP54 500V, 50 Hz (470-760)V (75, 90, 110, 132,160, 200) kW <5% air normal 1 1300x620x1120mm (height x width x depth) 610/650/670/710 kg

## **CONSTRUCTION**

The switchgear housing is made of sheet steel. It is of a modular design and comprises of the following parts: housing of passive filter, housing apparatus of 500 V.

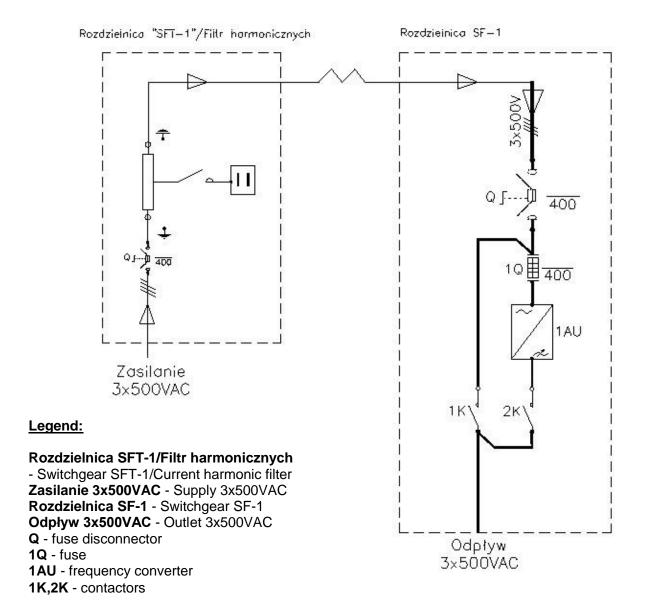
#### **MODE OF OPERATION**

Switchgear SFT-1 is equipped with passive high current harmonic filter FT, based on RLC technology. Switchgear SFT-1 is designed for operate from input side of six-peak frequency converter (f.e. mounted in switchgear SF-1, SF-2, SF-3).

Passive high current harmonic filter FT mounted in switchgear SFT-1 reduces current harmonic to unimportant level (THDi<5% for loading in range from 0,7- 1,2 rated loading) and provides sinusoidal current consumed from grid.

Turning on/off the outlet is carried out through moving lever of disconnector Q in on/off position.

## **SCHEMAT IDEOWY**



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

