

# EXPLOSION-PROOF TRANSFORMER TYPE HA-EVS



## Technical Parameters:

Frequency	50Hz
Connection group	Yyn0
Insulation class	H or F
transformer covering	IP67
Cooling	air

The transformer station is determined for installation in underground operations of mining plants by stoping, namely in areas with high explosion hazard of coal dust and fire damp. It serves for power supply of electric devices with three-phase alternate current of frequency 50 Hz and voltage 500 – 1200 V.

## **The transformer station consists of the following main nodes:**

- power transformer chamber in version EExdI,
- high voltage chamber with a switch and the isolator with entrenching knives,
- low voltage chamber with a measuring and protecting system of electronic safeguards and converters.

The station is equipped with a protection against short-circuit, overload and asymmetric load of the device, furthermore with a ground protection and safeguards monitoring the protecting conductor integrity. The intrinsic-safe converters enable safe control of the transformer station through the use of circuits with intrinsic-safe level.

Further parameters vary depending on the size and output of the transformer. Values are stated in the table below.

## **Technical Parameters according to the Transformer Type:**

Type		EVS400	EVS630	EVS1000	EVS1250	EVS1500	EVS1750	EVS2000	EVS2500	EVS3000	EVS3500
Rated power	kVA	400	630	1000	1250	1500	1750	2000	2500	3000	3500
Primary voltage	V	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
Secondary voltage	V	500-1200	500-1200	500-1200	500-1200	500-1200	500-1200	500-1200	500-1200	500-1200	500-1200
Regulation range of the transformer gear ratio	%	+/-5	+/-5	+/-5	+/-5	+/-5	+/-5	+/-5	+/-5	+/-5	+/-5
Power dissipation	W		4000	4700	5300	6300	6900	7900	8500	8900	9600
Cover length	mm	2280	2280	2880	2880	2880	2880	3020	3020	3420	3420
Cover width	mm	870	870	940	940	940	940	980	980	1040	1040
Cover height	mm	1090	1090	1200	1200	1200	1200	1310	1310	4501	450
Cover size		1	1	2	2	2	2	3	3	4	4