

Bydgoszcz, Poland

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Control switchgear for a 450MVA power transformer. Since 2015, more than 30 control cabinets have been manufactured and prefabricated for one of the electricity transmission system operators with the following transformer capacities: 275MVA, 330MVA, 450MVA, 550MVA.

Supply voltage: 400/230V AC

Control voltage: 24V DC

Rated current: 63A

Protection class: IP66 enclosure

Corrosion protection: C4

IMPLEMENTATION DATE: APRIL 2019

Switchboard:

Dimensions:1800mm x 2000mm x 500mm

Type:SZS-OH - large-size housing made of stainless steel, IP66. The dimensions of the switchgear housing were adjusted to the individual customer needs.

Color:RAL7038_GS

Manufacturer:Radiolex

124-051.013 - **SZS-OH 1800*2000*500** - Switchgear housing - manufacturer Radiolex

ABB equipment used:

1SAM250000R1005 - **MS116-1.0** -Motor switch 3P 0.25kW 0.63-1A

1SAM250000R1009 - **MS116-6,3** -Motor switch 3P 0.75kW 1.6-2.5A

1SBH137001R1322 - **NF22E-13** -Contactor 2NO/2NC 6A 230 V AC/DC

1SBL141001R8010 - **A 9-30-10 220** -Contactor 3P 4kW 230V AC

1SBN010040R1131 - **CA5-31 M** -Auxiliary contact block 3NO 1NC

1SVR405611R1100 - **CR-M024DC2L** -Power relay 24V DC 12A

1SVR405613R3100 - **CR-M230AC4L** -Power relay 230V AC 6A

1SVR550107R4100 - **T-ERE 0.3-30s** -Time relay 0.3-30s AC/DC

1SVR630794R3300 -**CM-PVS** -3-phase voltage monitoring relay, 2NO/2NC contacts

2CCE110800R0101 - **E221-11** -Maneuver switch 1NO 1NC

Stego equipment used:

01140.0-00 - **KTO011** - Thermostat 1NC, 0 to +60°C

01141.0-00 - **KTS011** - Thermostat 1NO, 0 to +60°C

01220.0-00 - **MFR012** - Mechanical hygostat, 35-95% humidity

01801.0-00 - **FF018** - Fan with filter

02811.0-00 - **CSL028** - Solid-state blower 250W

14007.0-00 - **HG140** - Semiconductor heater AC/DC 110-250V, 100W

Apparatus from other manufacturers used:

4G10-69-U -**4G10-69-U** -Cam switch 1-2 4P 10A manufactured by Aparator

4G63-76-PK -**4G63-76-PK** -Cam switch 3P 63A manufactured by Aparator

24V 0.8A - **24V, 0.8A** -Switching power supply 20W manufactured by Comatec

P18-1000 - **P18** -Temperature and humidity sensor manufactured by Lumel

SCT-0750-005 - **5A - 0.333V** - Current transformer 5A 50-400Hz manufactured by Magnelab

MDR-20-24 - **24V, 1A** - Switching power supply 24W manufactured by Mean Well

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