

## Tczew, Poland

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The implementation concerned the construction of switchboards for the design of the railway station in Tczew. The scope of the project included the construction of 19 facility switchgears and the main switchgear supplying power to the entire facility, the implementation of which is presented below. The design of the four-section casing was created with the support of the Radiolex construction and design office.

Supply voltage: 230/400V AC

Control voltage: 24V AC/DC

Rated current: 400A

Tightness class: IP55

Corrosion protection: C2

Operating temperature range: -20°C to 40°C

**COMPLETION DATE: JUNE 2020**

### **Switchboard:**

**Dimensions:** 3040mm x 2000mm x 448mm

**Type:**Modulor EPE – EPE (Electric Power Equipment) indoor low-voltage energy distribution switchgear system designed to power public utility facilities and industrial plants. The system is based on a bolted frame structure, which allows for easy creation of serial sets.

**Color:** RAL7035;

**Manufacturer:**Radiolex

140-005.019 – **Modulor-3040\*2000\*448** – Switchgear housing – manufacturer Radiolex

### **ABB equipment used:**

1SCA022763R5390 - **OT400E03K** - 400A direct drive switch disconnecter

1SDA054599R1 - **Tmax T5D 400 3p F F** - 3P 400A compact disconnect switch

1SDA067418R1 -**XT1N 160 TMD 160-1600 3p F F** -Power switch 3P 160A

1SDA068059R1 -**XT3N 250 TMD 250-2500 3p F F** -Power switch 3P 250A

1SDA068208R1 -**XT1D 160 3p F F** -3P 160A power switch

1SEP101890R0002 -**XLP0-6BC** -Fuse switch 160A

1SEP101892R0001 -**XLP2-6BC** -Fuse switch 400A

2CSG251141R4051 -**M4M 20 MODBUS** -Network parameter analyzer

2CSM204365R1341 -**TWA-1** - Astronomical clock

2CSM631043R0811 - **TS63/12-24C** - Transformer with safe isolation 12-24V

2CTB815710R1100 - **OVR T1-T2 4L 12.5-275s P TS QS** - Surge arrester T1+T2

#### **Apparatus from other manufacturers used:**

CZF-310 - **CZF-310** - Phase loss sensor manufactured by F&F

D171009 - **D171009** -Electric energy meter. 1f direct measurement manufacturer F&F

D200213- **D200213** -Electric energy meter. 3f direct measurement manufacturer F&F

LE-03M-CT - **LE-03M-CT** - Electric energy meter. 3f, semi-indirect measurement manufactured by F&F

MBS-26040-0000000 - **MBS-26005** - Current transformer 150/5A manufactured by ASTAT

MBS-26045-0000000 - **MBS-26045** - Current transformer 250/5A manufactured by ASTAT

METSECT5MA040 - **METSECT5MA040** - Current transformer 400/5A manufactured by Schneider

PF-410 -**PF-410** -Phase switch manufactured by F&F

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