

Enterprise, Canada

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The presented switchgear is a continuation of the project, the previous two versions were switchboards for transformers with a power of 75MVA, while the one shown below is a control cabinet for a transformer with a power of 100MVA.

The prefabricated switchgear was shipped to Canada to areas with harsh weather conditions. The special design of the switchgear included ensuring its uninterrupted operation in atmospheric conditions down to -50°C by using PREMIUM thermal insulation.

Supply voltage: 208/120V 60Hz

Control voltage: 125V DC

Rated current: 60A

Standard: USA

Tightness class: IP66

Corrosion protection: C4

Operating temperature range: -50°C to +80°C

IMPLEMENTATION DATE: MAY 2019

Switchboard:

Dimensions:1800 mm x 1400 mm x 600 mm

Type:SZS-OH – large-size housing made of stainless steel, IP66. The door has a stainless steel pistol-grip handle.

Color:

outside: RAL7038,

inside: RAL9003

Manufacturer:Radiolex

126-063.033 - **SZS-OH 1800*1400*600** - Switchboard housing - manufacturer Radiolex

815-001 - **TA-20-ST** - PREMIUM thermal insulation

ABB equipment used:

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

1SBL277001R1300 - **AF30-30-00-10** - Contactor 3NO 21A 230V DC, AF series

1SBN010110R1001 - **CA4-01** - Auxiliary contact 1NC 6A

1SBN010110R1010 - **CA4-10** - Auxiliary contact 1NO 6A

1SBN020114R1000 - **TEF4-OFF** - Time relay 1Z 1R turn-off delay

1SBN020312R1000 - **TEF5-ON** - Time relay, switch-on delay

1SDA074634R1 - **XT1 125A TMF 15A FF** - Molded case circuit breaker 125A, fixed threshold 15A

1SDA074642R1 - **XT1 125A TMF 60A FF** - Molded case circuit breaker 125A, fixed threshold 60A

1SVR730884R3300 - **CM-MPS.41S** -Phase monitoring relay 5A 300VAC

Beckwith Electric equipment used:

M-0115A - **M-0115A**-Parallel balancing module

M-0127A - **M-0127A**-Current relay

M-0169A - **M-0169A**-Current transformer

M-0329 - **M-0329**-Backup control voltage control 2A 120V

M2001D-6-V-4S-20-C-0-P-B-0 - **M2001D**-Digital tap changer

M-2025B - **M-2025B**-Current Loop Interface Module

M-2026 – **M-2026**-Backup power supply

M-2067-**M-2067**-Tap-changer panel

Eaton equipment used:

019863 –**T0-1-8214/E** –Cam switch 1-0-2 20A 1P

038847 –**T0-2-8221/E** –Cam switch 1-2 20A 2P

067352 – **T0-1-8200/E** – Cam switch 0-1 20A 1P

091059 – **T0-5-8270/E** – Cam switch 1-2-3 20A 3P

Qualitrol equipment used:

509-100 – **509-100** – Transformer monitor

TRA-001-1 – **TRA** – Current compensation autotransformer

TRA-600-1 –**TRA-600-1** –AC voltage sensor

Apparatus from other manufacturers used:

467-120- **467** – Voltage transformer manufactured by Crompton Ins.

GFR5262 WTR – **125V, 15A** – Socket 15A 125V manufactured by Hubbel

241101A3A3A3A5X1840 –**SEL-2411** –Programmable controller manufactured by SEL

4LN25A:0.5A/A-4 – **CT 5A** – Auxiliary current transformer manufactured by SENTRAN

RSG909R –**RSG900 Series** –Industrial switch manufactured by Siemens

20K02-D – **20K02-D** – Current test switch manufactured by States

255XCXP – **255 Series** – Latching relay 0.5A 125V man. Struthers-Dunn

8951330000 –**CP M SNT** –Switching power supply 24V 3A manufactured by Weidmüller

STEGO equipment used:

02527.0-10 - **SL025** - Lamp, Slimline series 230V

01131.9-00 - **ETR 011** - Electronic thermostat -4 to +140°F 120V AC

01245.9-00 - **EFR 012** - Electronic humidistat 40 TO 90% RH, 120V AC

14008.0-00 - **HG140** - Solid-state heater 150W 120-240V AC/DC

GALERIA PRODUKTU WRAZ Z PRZYKŁADOWYMI REALIZACJAMI



