

Quebec City, Canada

HOME > CATEGORIES > COMPLETED PROJECTS > QUEBEC CITY, CANADA

120MVA power transformer control cabinet. The implementation involved the production and prefabrication of 6 twin switchboards. The destination of our devices are wind farms located in the largest province of Canada, i.e. Quebec.

Supply voltage: 120/240V AC

Control voltage: 125V DC

Rated current: 40A

Tightness class: IP66

Corrosion protection: C4

Operating temperature range: -40°C to 50°C

IMPLEMENTATION DATE: APRIL 2020

Switchboard:

Custom made wardrobe at the customer's request.

Dimensions: 1600mm x 1800mm x 680mm

Type: SZS-OH – hanging housing, with the possibility of mounting on the transformer support frame using pins in the rear part of the housing. Made of stainless steel, polished coating.

Color: outside: ANSI 70, inside RAL9001

Manufacturer: Radiolex

118-460.001 – **SZS-OH-1600*1800*680** – switchboard housing – manufacturer Radiolex

ABB equipment used:

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

1SBH137001R1380 - **NF80E-13** -Contactor relay 100-250V

2CCF008908R0001 -**S502-K15** -Current circuit breaker 10-15A

2CCS862001R0557 -**S802S-K40** -Multiple current circuit breaker 2P 40A

2CCS862001R1105 -**S802S-UCB 10** -Overcurrent circuit breaker 2P 10A 50kA 250VDC

Marathon equipment used:

1422122 -**series 142** - 2P terminal block

1423122 -**series 142** - 3P terminal block

1506 SC - **1500 SERIES 6 POLE** - terminal block with brass inserts 1500 series, 6 poles

1506 STD - **1500 SERIES 6 POLE** - 1500 series terminal block, 6 pole

1512 STD - **1500 SERIES 12 POLE** - 1500 series terminal block, 12 poles

Stego equipment used:

01170.9-00 -**FZK 011** -Thermostat 120V AC, NC/NO

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

5.02527.0-00 - **SL025** - Slimline SL series lamp 230V 11W

Beckwith Electric equipment used:

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

M-2001C -**M-2001C** -Digital tap changer

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

M-2270B -**M-2270B** -Tap changer panel

Qualitrol equipment used:

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

909-300-01 – **909** – Hold relay

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

Apparatus from other manufacturers used:

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

050712 – **T0-4-8223/E** – Cam switch 1-2 4P 20A manufactured by Eaton

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

20K02-D – **20K02-D** – Test switch manufactured by States

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

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

GF5262IA – **GF5262IA** – Socket 15A 125V manufactured by Hubbel

KXCBS11 – **KXCBS11** – Limit switch manufactured by Lovato

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