## Ergon Energy Document Revision List

**Project:** Sub-Transmission Construction Manual  
**Electronic - Website Version**

### Section 12 - Switches Ver 4

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APPLICATION
CIRCUITS
S Single Circuit

VOLTAGE
6 66kV
1 132kV

TYPE
C Concrete

ABS CONFIGURATION
H Horizontal (Flat)
V Vertical

Drawing Code
C 6 S H A 1 E

ABS TYPE
A 1 ABS Double Break Switch

EARTH SWITCH
O No Earth Switch
E With Earth Switch

FULL STRUCTURE LIST
Single Circuit
S H A 1 O Horizontal Double Break ABS Without Earth Switch
S H A 1 E Horizontal Double Break ABS With Earth Switch

OVERHEAD SUB-TRANSMISSION
SWITCHES
SINGLE CIRCUIT ABS CONSTRUCTION CODE GUIDE
ABS CONSTRUCTION CODES

Approved
P DE SOUSA ROQUE

Date
19/09/2013

Checked
R MARGANI

Drawn
A JONES

DRAWING NUMBER: 5-12-2-1
VOLUME 5
FOLDER 12
PAGE 2-1
ISSUE 0B
APPLICATION CIRCUITS
- S: Single Circuit
- C: Concrete

PHASE CONFIGURATION OF THE CIRCUIT
- H: Horizontal (Flat)
- V: Vertical

VOLTAGE
- 6: 66kV
- 1: 132kV

TYPE
- H: Horizontal
- V: Vertical

FULL STRUCTURE LIST
Single Circuit
- S H S A: Horizontal Strain Pole for Double Break ABS Normal Insulator
- S H Z A: Horizontal Strain Pole for Double Break ABS Fog Disc

STRUCTURE & INSULATOR TYPE (PARTIAL CODE)
- S A: Strain w/ Normal Disc Insulators for ABS
- Z A: Strain w/ Fog Disc Insulators for ABS

LEFT OR RIGHT POLE
- L: Left Pole
- R: Right Pole

STRENGTH CLASS
- 3: 30kN (3 Tonne)
- 4: 40kN (4 Tonne)
- 5: 50kN (5 Tonne)
- 6: 60kN (6 Tonne)
- 8: 80kN (8 Tonne)

LENGTH (m)
- A: 12m
- B: 14m
- C: 18m
- D: 21m
- E: 24m
OVERHEAD SUB-TRANSMISSION
SWITCHES
66kV HORIZONTAL DOUBLE BREAK ABS
COMBINED CONSTRUCTION

Pole & Hardware Construction Code
C6SHA1O
C6SHA1E

ABS Construction Code
C6SHA1O
C6SHA1E

Pole & Hardware Construction Code
C6SHSA3BL/R
C6SHZA3BL/R

DRAWING NUMBER: 5-12-3-1

HARD COPY
UNCONTROLLED

Ergon Energy Corporation Ltd
ABN 50 087 646 062
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Note: Conductor constructions and foundation constructions not included in the above.
Refer to Earthing Folder for Pole Earthing Constructions

Refer to Foundations Folder for Pole Foundation Constructions

Notes:
1. ABS structure and handle to be earthed to concrete pole, max resistance 10ohms
2. Refer to Earthing Folder for Pole Earthing Constructions
3. Refer to Foundations Folder for Pole Foundation Constructions
4. Structure contains provision for earth switch

Construction Code
C6SHSA3BL/R
C6SHZA3BL/R

66kV HORIZONTAL DOUBLE BREAK ABS
14m x 30kN POLE CONSTRUCTION

OVERHEAD SUB-TRANSMISSION SWITCHES
### MATERIAL - 66kV HORIZONTAL ABS

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Note: Conductor constructions and foundation constructions not included in the above.

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OVERHEAD SUB-TRANSMISSION

SWITCHES

66kV HORIZONTAL DOUBLE BREAK ABS

MATERIAL LIST - SWITCH

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Overhead Energy Corporation Ltd
ABN 50 087 646 062

Approved
P DE SOUSA ROQUE

Date
11/04/2016

Checked
R MARGANI

Drawn
A JONES

DRAWING NUMBER: 5-12-5-1
Refer to Earthing Folder for Pole Earthing Constructions

Refer to Foundations Folder for Pole Foundation Constructions

Notes:

1. ABS structure and handle to be earthed to concrete pole, max resistance 10ohms
2. Refer to Earthing Folder for Pole Earthing Constructions
3. Refer to Foundations Folder for Pole Foundation Constructions
4. Structure contains provision for earth switch
Notes:
1. ABS structure and handle to be earthed to concrete pole, max resistance 10ohms
2. Refer to Earthing Folder for Pole Earthing Constructions
3. Refer to Foundations Folder for Pole Foundation Constructions
4. Structure contains provision for earth switch

Construction Code
C6SHA10

OVERHEAD SUB-TRANSMISSION
SWITCHES
66kV HORIZONTAL DOUBLE BREAK ABS
WITHOUT EARTH SWITCH - CONSTRUCTION

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ABN 50 087 646 062

Approved
P DE SOUSA ROQUE
Date
11/04/2016
Checked
R MARGANI
Drawn
T BORG

DRAWING NUMBER: 5-12-5-3

VOLUME FOLDER PAGE ISSUE
5 12 5-3 0A
**MATERIAL - 132kV HORIZONTAL ABS**

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Note: Conductor constructions and foundation constructions not included in the above.

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**OVERHEAD SUB-TRANSMISSION SWITCHES**

132kV HORIZONTAL DOUBLE BREAK ABS

**MATERIAL LIST - 18 x 30kN POLE**

---

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Ergon Energy Corporation Ltd
ABN 50 087 646 062

Approved
P DE SOUSA ROQUE

Date
20/08/2014

Checked
R MARGANI

Drawn
K STOLZ

OVERHEAD SUB-TRANSMISSION
SWITCHES
132kV HORIZONTAL DOUBLE BREAK ABS
MATERIAL LIST - 18 x 30kN POLE

DRAWING NUMBER: 5-12-8-1

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OVERHEAD SUB-TRANSMISSION SWITCHES
132kV HORIZONTAL DOUBLE BREAK ABS
18m x 30kN POLE CONSTRUCTION

Notes:
1. ABS structure and handle to be earthed to concrete pole, max resistance 10ohms
2. Refer to Earthing Folder for Pole Earthing Constructions
3. Refer to Foundations Folder for Pole Foundation Constructions

Construction Code
C1SHSA3CL/R
C1SHZA3CL/R

Refer to Conductor Hardware
Folder for Conductor & Vibration Damper Constructions

Refer 5-12-9-1 for ABS Details
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Refer to Conductor Hardware Folder for Conductor & Vibration Damper Constructions

Refer to Earthing Folder for Pole Earthing Constructions

Refer to Foundations Folder for Pole Foundation Constructions

Notes:

1. ABS structure and handle to be earthed to concrete pole, max resistance 10ohms
2. Refer to Earthing Folder for Pole Earthing Constructions
3. Refer to Foundations Folder for Pole Foundation Constructions

Construction Code
C1SHA1O

OVERHEAD SUB-TRANSMISSION SWITCHES
132kV HORIZONTAL DOUBLE BREAK ABS SWITCH CONSTRUCTION

Approved
P DE SOUSA ROQUE

Date
20/08/2014

Checked
R MARGANI

Drawn
L EDWARDS

DRAWING NUMBER: 5-12-9-2

SUPERSEDES:

5 12 9-2 0A