



Order Specifications for Side-Break Switches

1.00 Switch

- 1.01 Number of switches required _____
- 1.02 Mounting orientation shall be horizontal upright _____, vertical _____, under-hung _____, or phase over phase _____, other _____
- 1.03 Nominal Voltage _____ kV (*Specify 15, 23, 34.5, 46, 69, 115, 138, or 161*)
- 1.04 BIL Rating _____ kV (*Specify 110, 150, 200, 250, 350, 550, 650, 750, or 900*)
- 1.05 Continuous Current Rating _____ Amps at 30 degree Temperature Rise (*Specify 600, 1200, 1600, or 2000*)
- 1.06 Momentary Current Rating _____ kA (*Specify 40, 61, 71, or 100*)
- 1.07 Individual switch pole units factory pre-assembled _____, unitized _____
- 1.08 Operation of control mechanism shall be torsional _____, reciprocating _____

2.00 Arcing Horns

- 2.01 Switches shall be _____, shall not be _____ furnished with wipe-type horns (std equipment)
- 2.02 Switches shall be _____, shall not be _____ furnished with high-speed, snap-out arcing horns (optional equipment at additional cost)
- 2.03 Arcing horns to be capable of breaking _____ amperes of charging current

3.00 Interrupters

- 3.01 Switches shall _____, shall not _____ have provision for future addition of load interrupter device
- 3.02 Switches shall be _____, shall not be _____ furnished with load interrupter devices
- 3.03 Expected maximum recovery voltage rating _____ kV of load interrupter devices

4.00 Insulators

- 4.01 Switches shall be _____, shall not be _____ furnished with insulators
- 4.02 Insulators shall be porcelain _____, polymer _____
- 4.03 Insulators shall be standard strength _____, high strength _____, resistive glazing _____, extra leakage distance _____
- 4.04 BIL Rating _____ kV (*Specify 110, 150, 200, 250, 350, 550, 650, 750, or 900*)



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4.05 Technical Reference Number _____

5.00 Switch Bases (Substation Applications)

5.01 Mounting (hole) pattern for switch bases available _____ (*yes or no*)

5.02 Required dimension from truss surface to top of terminal pad _____ to properly coordinate height of switch and base with bus

5.03 Special switch base fabrication requirements _____ (*yes or no*); fabrication details available _____ (*yes or no*)

6.00 Mounting Structure (Substation Applications)

6.01 Switch bases to be mounted on lattice truss _____, tubular truss _____, steel beam truss _____, wood beam truss _____, other _____ (*specify*)

6.02 Required phase spacing _____

6.03 Are there adjacent columns or structures, which extend vertically above the mounting truss? _____ (*yes or no*). Distance from nearest switch base to adjacent column _____

6.04 Switch base mounting height above grade _____

6.05 Structure drawing available _____ (*yes or no*); substation layout or plan drawing available _____ (*yes or no*); sketch of general arrangement available _____ (*yes or no*)

6.06 Mechanical or electrical clearance issues _____ (*yes or no*)

7.00 Pole Structure (Line Applications)

7.01 Mounting structure will be wood pole _____, steel pole _____, concrete pole _____, laminated wood pole _____, lattice tower _____, other _____ (*specify*)

7.02 Structure to be single pole _____, two pole _____, three pole _____, four pole H-frame _____, or other _____ (*specify*) mounting configuration

7.03 Will the pole extend vertically above the truss or wood cross arms _____ (*yes or no*)?

7.04 Will there be a shield wire _____ (*yes or no*)?

7.05 Switch to be mounted on wood cross arms _____, metal truss _____, other _____ (*specify*)

7.06 If metal truss, it will be supplied by customer _____, SEECO _____

7.07 If wood cross arms, centerline spacing of the beams is _____ (*specify*)

7.08 Required phase spacing _____, vertical distance grade to truss or cross-arm _____, vertical distance grade to top of pole _____



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- 7.09 Structure drawing available _____ (*yes or no*); guying plan available _____ (*yes or no*); sketch of general arrangement available _____ (*yes or no*)

8.00 Line Tensions and Angles (Line Applications)

- 8.01 Conductor type, size, and tensions:
Line 1: type _____, size _____, maximum tension _____ lbs
Line 2: type _____, size _____, maximum tension _____ lbs
Line 3: type _____, size _____, maximum tension _____ lbs
- 8.02 Angular pull-off:
Line 1: horizontal angle _____ degrees, vertical angle _____ degrees
Line 2: horizontal angle _____ degrees, vertical angle _____ degrees
Line 3: horizontal angle _____ degrees, vertical angle _____ degrees
- 8.03 Lines will dead-end to switch bases _____, truss/cross-arms _____, pole structure _____

9.00 Operating Environment

- 9.01 Proposed geographical location of switch is _____
- 9.02 Geographical location of switch is considered NESC light _____, medium _____, heavy _____
- 9.03 Altitude of switch will be _____ feet above sea level
- 9.04 Seasonal temperature extremes will vary from _____ degrees F to _____ degrees F
- 9.05 Switches will be _____, will not be _____ subject to heavy airborne particulate
- 9.06 Switches will be _____, will not be _____ subject to a salt-laden environment

10.00 Optional Features

- 10.01 Motor operators shall be _____, shall not be _____ furnished; if motor operators are to be furnished, please complete separate order specification for motor operators
- 10.02 Worm gear mechanisms shall be _____, shall not be _____ furnished; number of mechanisms required _____ and required gear ratio _____ (*Specify 20:1, 30:1, or 40:1*)
- 10.03 Operator grounding platforms shall be _____, shall not be _____ furnished; if yes, please specify the required quantity _____
- 10.04 Porcelain insulating member in control column shall be _____, shall not be _____ furnished
- 10.05 Auxiliary switches shall be _____, shall not be _____ furnished; number of switches _____



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- 10.06 Ground switches shall be _____, shall not be _____ furnished; if ground switches are to be furnished, please complete separate order specification for ground switches
- 10.07 Interlocks shall be _____, shall not be _____ furnished; interlocks to be key _____, mechanical _____, electrical _____; please specify the required quantity _____
- 10.08 Tin-plated terminal pads shall be _____, shall not be _____ furnished
- 10.09 Terminal connectors shall be _____, shall not be _____ furnished