

Specifications

Conditions of Sale

STANDARD: Seller's standard conditions of sale as set forth in Price Sheet 150 apply.

SPECIAL TO THIS PRODUCT:

INCLUSIONS: S&C Omni-Rupter Switches are three-pole, group-operated interrupter switches offered in the side-break integer style. These switches are available with either steel or insulated bases in the Mounting Configurations and Standard Mounting Arrangements shown in the tables on pages 4 through 7. Each switch is provided with an operating mechanism designed for the applicable Standard Mounting Arrangement. Each shipment of one of these switches will include:

- A three-pole switch, complete with interphase drive, factory-assembled on a single base
- Dead-ending brackets for each switch pole (except vertical mounting configurations); requires an optional pole-band
- Silver-plated contacts and terminal pads
- A single-point lifting bracket in the upright, inverted, and vertical mounting configurations, permanently installed for convenient rigging and hoisting during installation
- The appropriate detailed erection drawing (ED)
- Complete installation instructions

In addition, the following items will be provided depending upon the style of operating mechanism.

For hookstick-operated switches (ED-700R4, ED-706R4, ED-707R4, ED-709R4, ED-710R4, ED-716R4, ED-717R4, and ED-719R4):

- A crossarm mounted pull-pull-type manual operating handle, a retention mechanism to hold the switch in the open position, and provisions for the switch to be locked/tagged out in the open position (Although these items will be assembled to the switch and adjusted for proper operation at the factory, some minor disassembly is required for shipping purposes. However, no adjustments should be necessary following reassembly in the field.)
- Availability of a hookstick-operated lockout/tagout device for hookstick-operated Omni-Rupter switches in the upright, upright with extra mounting-pole clearance, tiered-outboard, and inverted configurations (Select the catalog number with the "-H2" suffix to add this option.)

For vertical-operating-shaft switches (all other EDs):

- Four sections of 6-foot-10-inch (208.28 cm) vertical operating pipe as specified on the erection drawing for the applicable Standard Mounting Arrangement
- The appropriate set of operating-mechanism components for the vertical operating pipe; e.g., handle, rod guides or guide bearings, and couplings

S&C Omni-Rupter Switches have a two-time duty cycle fault-closing capability of 42,000 amperes, peak, and a 10-time duty cycle fault-closing capability of 21,000 amperes, peak. Accordingly, these switches may be closed the specified number of times at the indicated current while remaining operable and able to carry and interrupt rated continuous current.

Omni-Rupter Switches in the upright and triangular mounting configurations are capable of being opened and closed under $\frac{3}{4}$ -inch (19.05-mm) ice formation. Switches in the upright and triangular mounting configurations provide this capability inherently. Switches in the tiered-outboard and vertical mounting configurations require the addition of ice shields to ensure a $\frac{3}{4}$ -inch (19.05-mm) ice breaking capability on opening and a $\frac{3}{8}$ -inch (9.525-mm) ice breaking capability on closing. Switches in the inverted mounting configuration require the addition of ice shields to ensure a $\frac{3}{4}$ -inch (19.05 mm) ice breaking capability on opening and closing. For details, refer to Table 5 on page 8.

EXCLUSIONS: Switches do not include extension-link assemblies, brackets for mounting surge arresters, pole band and J-bolts, or ice shields listed in Table 5 on page 8, nor do they include connectors. Various connector arrangements are available as listed in Table 2 on page 3.

POWER OPERATION: Power operation or, if desired, remote supervisory control may be provided for S&C Omni-Rupter Switches by the addition of the S&C 6801M Automatic Switch Operator. The 6801M Switch Operator is available in two versions: reciprocating, for reciprocating-type operating mechanisms; and rotating, for rotating-type operating mechanisms. S&C Omni-Rupter Switches furnished with 6801M Automatic Switch Operators have a two-time duty cycle fault-closing capability of 32,500 amperes peak for standard switches only. Switches in the upright and triangular mounting configurations using the 6801M Automatic Switch Operator are capable of being opened under a $\frac{3}{4}$ -inch (19.05-mm) ice formation and being closed under a $\frac{3}{8}$ -inch (9.525-mm) ice formation with the addition of ice shields. Switches in the vertical and tiered-outboard mounting configurations using 6801M Automatic Switch Operators are capable of being opened under $\frac{3}{4}$ -inch (19.05-mm) ice formation and being closed under $\frac{1}{2}$ -inch (12.7-mm) ice formation. For additional details concerning the S&C 6801M Automatic Switch Operator, refer to Specification Bulletin 1045-31.

★ Rural Utilities Service has accepted a wide variety of Omni-Rupter Switch styles and configurations.



Conditions of Sale—Continued

SPECIFICATION DEVIATIONS: S&C Omni-Rupter Switches are offered with a choice of Cypoxy™ Insulators, silicone insulators, or porcelain standard-length station post insulators. The standard insulator color is gray. Over- or under-insulated switches can be specified by adding one of the insulator options from Table 7 on page 9. S&C Omni-Rupter Switches cannot be supplied less insulators or less bases.

Departures from the Standard Mounting Arrangements for S&C Omni-Rupter Switches are available as Standard Minor Modifications.

How to Order

1. Obtain the catalog number of the desired switch from the Tables 3 and 4 on pages 4 through 7. Also obtain the erection drawing number of the desired switch from the “Standard Mounting/Operating Arrangements” column in those tables.
 2. If a Standard Minor Modification is desired, obtain the suffix letter of the desired modification from Table 6 on page 8. Add the suffix to the erection drawing number of the switch.
 3. If insulators of the next higher or lower voltage rating are desired, see Table 7 on page 9.
 4. If accessories are desired, obtain the suffix letter of the desired accessory from Table 5 on page 8. Add the suffix to the switch catalog number.
 5. If connectors are desired, obtain the catalog number of the desired connector from Table 2 on page 3.
- Note:** To order spare and replacement parts, obtain the catalog number of the desired part from Table 8 on page 9.

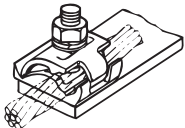
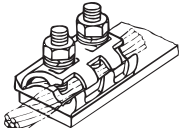
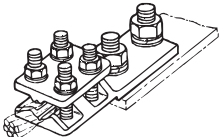
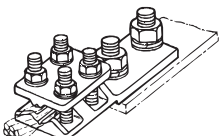
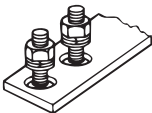
Table 1. Interrupting Ratings

Application Class		Maximum Amperes
Transformer Switching	Parallel Switching①	900
	Load Dropping②	900
Line Switching	Load Splitting (Parallel or Loop Switching)	900
	Load Dropping	900
	Line Dropping	10
Cable Switching	Load Splitting (Parallel or Loop Switching)	900
	Load Dropping	900
	Cable Dropping (Charging Current)	20

① Applies to the switching of the primary of a transformer that remains energized from the secondary bus or to the disconnecting of a loaded secondary bus from one of the two transformers supplying that bus while the primary side of the transformer remains energized.

② Omni-Rupter Switches can also switch the magnetizing currents associated with such loads.

Table 2. Connectors

Illustration	Description	Accommodating Conductor	Catalog Number
	Bronze Body, Tin Plated, Single 1/2-13 x 2 3/4 Galvanized Steel Carriage Bolt	No. 2 solid (33.6 mm ²) through 500 kc mil stranded (334.9 mm ²) copper or aluminum	4738▲
	Aluminum-Alloy Body, Tin Plated, Two 1/2-13 x 2 3/4 Galvanized Steel Carriage Bolts	No. 2 solid (33.6 mm ²) through 500 kc mil stranded (334.9 mm ²) copper or aluminum	4739▲
	Standard Bronze Pad Terminal, Four-Bolt, Tin Plated. Includes galvanized steel hardware for attachment to terminal pads of switches	No. 6 solid (13.6 mm ²) through 250 kc mil (167.5 mm ²) copper or aluminum	4564R1-B★
		1/0 solid (53.5 mm ²) through 500 kc mil (334.9 mm ²) copper or aluminum	4565R1-B■
		2/0 stranded (87.0 mm ²) through 800 kc mil (538.6 mm ²) copper or aluminum	4567R1-B
	Standard Aluminum-Alloy Pad Terminal, Four-Bolt. Includes galvanized steel hardware for attachment to terminal pads of switches	No. 4 stranded (27.3 mm ²) through 1/0 stranded (70.5 mm ²) copper or aluminum	5326-B
		1/0 stranded (70.5 mm ²) through 250 kc mil copper or aluminum	5327-B
		250 kc mil (167.5 mm ²) through 400 kc mil (268.5 mm ²) copper or aluminum	5328-B
		350 kc mil (235.0 mm ²) through 600 kc mil (404.1 mm ²) copper or aluminum	5330-B
	Provision only for compression connectors. Includes two 1/2-13 x 2 galvanized steel carriage bolts		4586▲

▲ Connector suitable for hot-line tool handling.

★ When tin plated, accommodates No. 6 solid through 4/0 stranded aluminum or No. 6 through 4/0 ACSR. If desired, specify tin plating when ordering.

■ When tin plated, accommodates 1/0 solid through 500 kc mil aluminum or No. 1 through 477 18/1 ACSR. If desired, specify tin plating when ordering.

Table 3. S&C Omni-Rupter Switches—Three-Pole Side-Break Integer Style, with Cypoxy Insulators and steel bases^①

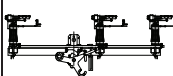
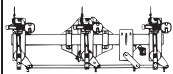
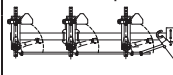
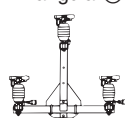
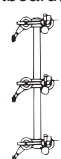
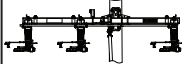
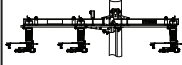
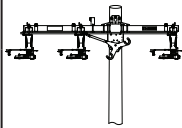
Mounting Configuration	Standard Mounting/ Operating Arrangements②	Rating										Catalog Number Cypoxy Insulators⑦	Page Reference for Dimensional Information
		kV			Amperes					Fault Closing Capability, Amperes Peak④			
		Nom.	Max	BIL	Cont. ③	Interr.	Peak Withstand	One-Second RMS, Sym.	Three-Second RMS, Sym.	Two-Time Duty Cycle⑤	Ten-Time Duty Cycle⑥		
Upright⑧ 	ED-701R4	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147412R4 147413R4	10
Upright⑧⑨ Hookstick Operated 	ED-700R4 ▲	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147412R4-H 147412R4-H2 147413R4-H 147413R4-H2	12
Upright⑧ (Extra Mounting Pole Clearance) 	ED-701R4	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147422R4 147423R4	10
Upright⑧⑨ Hookstick Operated (Extra Mounting Pole Clearance) 	ED-700R4 ▲	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147422R4-H 147422R4-H2 147423R4-H 147423R4-H2	12
Vertical⑩ 	ED-703R4	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147512R4 147513R4	18
Vertical⑨⑩ Hookstick Operated 	ED-707R4 ▲	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147512R4-H 147512R4-H2 147513R4-H 147513R4-H2	18
Triangular⑩ 	ED-704R4	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147712R4 147713R4	14
Tiered Outboard⑧⑩ 	ED-705R4	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147812R4 147813R4	16
Tiered Outboard⑧⑨⑩ Hookstick Operated 	ED-706R4 ▲	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147812R4-H 147812R4-H2 147813R4-H 147813R4-H2	18

TABLE CONTINUED ON PAGE 5 ►

Table 3. S&C Omni-Rupter Switches—Three-Pole Side-Break Integer Style, with Cyproxy Insulators and steel bases^①—Continued

Mounting Configuration	Standard Mounting/ Operating Arrangements ^②	Rating										Catalog Number Cypoxy Insulators ^⑦	Page Reference for Dimensional Information
		kV			Amperes					Fault Closing Capability, Amperes Peak ^④			
		Nom.	Max	BIL	Cont. ③	Interr.	Peak Withstand	One-Second RMS, Sym.	Three-Second RMS, Sym.	Two-Time Duty Cycle ^⑤	Ten-Time Duty Cycle ^⑥		
Inverted ^⑩ (Rotating) 	ED-708R4	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147212R4 147213R4	20
Inverted ^⑩ (Reciprocating) 	ED-741R4	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147912R4 147913R4	20
Inverted ^{⑨ ⑩} Hookstick Operated 	ED-709R4 ▲	14.4	17.0	110	900	900	65 000	25 000	20 000	42 000	21 000	147212R4-H 147212R4-H2	22
		25	29	150	900	900	65 000	25 000	20 000	42 000	21 000	147213R4-H 147213R4-H2	22

① Switches shown include the appropriate set of operating-mechanism components as specified on the erection drawing for the switch. Switches do not include connectors (refer to Table 2 on page 3).

② The Standard Mounting Arrangement is designated by the erection drawing number shown and should be specified when ordering. The suffixes available in Table 6 on page 8 can be added to the basic erection drawing number if desired.

Note: The vertical pipe for switches specified with an “-S” modification is limited to a total length of approximately 50 feet (1,524 cm). Not all modifications are available in all Mounting Configurations.

③ Omni-Rupter Switches rated 14.4 kV and 25 kV can carry up to 1000 amperes on a continuous basis for ambient temperatures to 104°F (40°C) with a minimum wind velocity of 2 feet per second. *Emergency* interrupting performance may be expected for currents to 1000 amperes; refer to Table 1 on page 2 for detailed information concerning interrupting ratings.

④ Accordingly, these switches may be closed the specified number of times at the indicated current while remaining operable and able to carry and interrupt rated continuous current.

⑤ Switches furnished with S&C 6801M Automatic Switch Operators have a two-time duty cycle fault closing rating of 32,500 amperes peak.

⑥ Switches furnished with S&C 6801M Automatic Switch Operators are not rated for 10-time duty cycle fault closing.

⑦ Leakage distance is 14 1/8 inches (359 mm) for 14.4-kV switches and 24 1/8 inches (613 mm) for 25-kV switches.

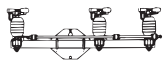
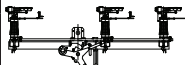
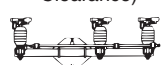
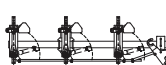
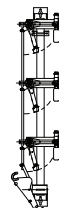
⑧ These switches include dead-ending brackets as standard. When dead-ending to these brackets, extension-link assemblies and a pole band are required. Extension-link assemblies can be provided by adding suffix “-D” to the catalog number of the switch and a pole band and J-bolts with suffix “-P1.” Maximum dead-end loading: 2000 pounds per conductor where pull-off forces are applied to only one side of the switch; 8000 pounds per conductor where equal pull-off forces are applied to both sides of the switch (except switches with extra mounting pole clearance for which dead-end loading is limited to 1500 pounds per conductor where pull-off forces are applied to only one side of the switch.)

⑨ Switches with the “-H2” suffix are equipped with an enhanced hookstick-operated lockout/tagout device.

⑩ Switches in the tiered-outboard mounting configuration require the addition of ice shields to ensure 3/4-inch (19.05 mm) ice-breaking capability. Vertical switches require the addition of ice shields to provide 3/4-inch (19.05 mm) ice-breaking capability on opening and a 3/8-inch (9.525 mm) ice-breaking capability on closing (Catalog Number Suffix “-B”). Switches in the inverted mounting configuration require the addition of ice shields to ensure a 3/4-inch (19.05 mm) ice breaking capability on opening and closing (Catalog Number Suffix “-B”). Refer to your local S&C Sales Office.

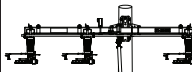
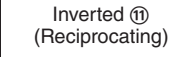
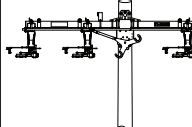
▲ Although the components for hookstick-operated switches are assembled to the switch and adjusted at the factory, some minor disassembly is required for shipping purposes. However, no adjustments should be required following reassembly in the field.

Table 4. S&C Omni-Rupter Switches—Three-Pole Side-Break Integer Style, with Cypoxy Insulators and insulated bases^{①②}

Mounting Configuration	Standard Mounting/ Operating Arrangements ^③	Rating										Catalog Number Cypoxy Insulators ^⑧	Page Reference for Dimensional Information
		kV			Amperes, RMS					Fault Closing Capability, Amperes Peak ^⑤			
		Nom.	Max	BIL	Cont. ^④	Interr.	Peak Withstand	One-Second RMS, Sym.	Three-Second RMS, Sym.	Two-Time Duty Cycle ^⑥	Ten-Time Duty Cycle ^⑦		
Upright ^⑨ 	ED-711R4	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147432R4 147433R4	10
Upright ^{⑨⑩} Hookstick Operated 	ED-710R4 ▲	14.4	17.0	110	900	900	65 000	25 000	20 000	42 000	21 000	147432R4-H 147432R4-H2	12
		25	29	150	900	900	65 000	25 000	20 000	42 000	21 000	147433R4-H 147433R4-H2	
Upright ^⑨ (Extra Mounting Pole Clearance) 	ED-711R4	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147442R4 147443R4	10
Upright ^{⑨⑩} Hookstick Operated (Extra Mounting Pole Clearance) 	ED-710R4 ▲	14.4	17.0	110	900	900	65 000	25 000	20 000	42 000	21 000	147442R4-H 147442R4-H2	12
		25	29	150	900	900	65 000	25 000	20 000	42 000	21 000	147443R4-H 147443R4-H2	
Vertical ^⑩ 	ED-713R4	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147532R4 147533R4	18
Vertical ^{⑩⑪} Hookstick Operated 	ED-717R4 ▲	14.4	17.0	110	900	900	65 000	25 000	20 000	42 000	21 000	147532R4-H 147532R4-H2	
		25	29	150								147533R4-H 147533R4-H2	
Tiered Outboard ^{⑨⑪} 	ED-715R4	14.4 25	17.0 29	110 150	900	900	65 000	25 000	20 000	42 000	21 000	147832R4 147833R4	16
Tiered Outboard ^{⑨⑩⑪} Hookstick Operated 	ED-716R4 ▲	14.4	17.0	110	900	900	65 000	25 000	20 000	42 000	21 000	147832R4-H 147832R4-H2	
		25	29	150	900	900	65 000	25 000	20 000	42 000	21 000	147833R4-H 147833R4-H2	

FOR FOOTNOTES, SEE PAGE 7 ►

Table 4. S&C Omni-Rupter Switches—Three-Pole Side-Break Integer Style, with Cypoxy Insulators and insulated bases^{①②}—Continued

Mounting Configuration	Standard Mounting/ Operating Arrangements ^③	Rating										Catalog Number Cypoxy Insulators ^⑧	Page Reference for Dimensional Information
		kV			Amperes, RMS					Fault Closing Capability, Amperes Peak ^⑤			
		Nom.	Max	BIL	Cont. ④	Interr.	Peak Withstand	One-Second RMS, Sym.	Three-Second RMS, Sym.	Two-Time Duty Cycle ^⑥	Ten-Time Duty Cycle ^⑦		
Inverted ^⑪ (Rotating) 	ED-718R4	14.4 25	17.0 29	100 150	900	900	65 000	25 000	20 000	42 000	21 000	147232R4 147233R4	20
Inverted ^⑪ (Reciprocating) 	ED-742R4	14.4 25	17.0 29	100 150	900	900	65 000	25 000	20 000	42 000	21 000	147932R4 147933R4	20
Inverted ^{⑩⑪} Hookstick Operated 	ED-719R4 ▲	14.4	17.0	100	900	900	65 000	25 000	20 000	42 000	21 000	147232R4-H 147232R4-H2	22
		25	29	150	900	900	65 000	25 000	20 000	42 000	21 000	147233R4-H 147233R4-H2	22

① Switches shown include the appropriate set of operating-mechanism components as specified on the erection drawing for the switch. Switches do not include connectors (refer to Table 2 on page 3).

② Base is a fiberglass-reinforced pultruded structural tube especially constructed for high strength. Interphase operating shaft is 1.050-inch diameter fiberglass rod. (Equivalent to 3/4-inch IPS pipe.)

③ The Standard Mounting arrangement is designated by the erection drawing number shown and should be specified when ordering. The suffixes available in Table 6 on page 8 can be added to the basic erection drawing number if desired.

Note: The vertical pipe for switches is limited to a total length of approximately 50 feet (1,524 cm). Not all modifications are available in all Mounting Configurations.

④ Omni-Rupter Switches rated 14.4 kV and 25 kV can carry up to 1000 amperes on a continuous basis for ambient temperatures to 104°F (40°C) with a minimum wind velocity of 2 feet per second. Emergency interrupting performance may be expected for currents to 1000 amperes; refer to Table 1 on page 2 for detailed information concerning interrupting ratings.

⑤ Accordingly, these switches may be closed the specified number of times at the indicated current, while remaining operable and able to carry and interrupt rated continuous current.

⑥ Switches furnished with S&C 6801M Automatic Switch Operators have a two-time duty cycle fault closing rating of 32,500 amperes peak.

⑦ Switches furnished with S&C 6801M Automatic Switch Operators are not rated for 10-time duty cycle fault closing.

⑧ Leakage distance is 14 1/8 inches (359 mm) for 14.4-kV switches and 24 1/8 inches (613 mm) for 25-kV switches.

⑨ These switches include dead-ending brackets, extension-link assemblies and a pole band are required. Extension-link assemblies can be provided by adding suffix “-D” to the catalog number of the switch and a pole band and J-bolts with suffix “-P1.” Maximum dead-end loading: 750 pounds or 500 pounds per conductor (for 14.4-kV and 25-kV switches, respectively) where pull-off forces are applied to only one side of the switch; 8000 pounds per conductor for 14.4-kV and 25-kV switches where equal pull-off forces are applied to both sides of the switch.

⑩ Switches with the “-H2” suffix are equipped with an enhanced hookstick-operated lockout/tagout device.

⑪ Switches in the tiered-outboard mounting configuration require the addition of ice shields to ensure 3/4-inch (19.05 mm) ice-breaking capability. Vertical switches require the addition of ice shields to provide 3/4-inch (19.05 mm) ice-breaking capability on opening and a 3/8-inch (9.525 mm) ice-breaking capability on closing (Catalog Number Suffix “-B”). Switches in the inverted mounting configuration require the addition of ice shields to ensure a 3/4-inch (19.05 mm) ice breaking capability on opening and closing (Catalog Number Suffix “-B”). Refer to your local S&C Sales Office.

▲ Although the components for hookstick-operated switches are assembled to the switch and adjusted at the factory, some minor disassembly is required for shipping purposes. However, no adjustments should be required following reassembly in the field.

Table 5. Accessories—For Omni-Rupter Switches

Item	Applicable to Mounting Configurations	Suffix to be Added to Switch Catalog Number
Mounting Provisions for three surge arresters per switch	Upright, Tiered Outboard, Triangular	-A1
Mounting Provisions for six surge arresters per switch	Upright, Tiered Outboard, Triangular	-A2
Ice Shields ^①	Vertical, Tiered Outboard, Inverted	-B
Harsh Environment Contacts. Greaseless graphite-impregnated contacts for application in high-contamination areas	All configurations	-C
Extension-Link Assembly ^② (one set of six) ^③	Upright, Tiered Outboard, Triangular	-D
International Crating. Wood used is either hardwood or certified by the supplier as "Heat treated (kiln dried) to a core temperature of 133° F (56° C) for a minimum of 30 minutes"	All configurations	-L71
Enclosed International Crating. Enclosed Box. Wood used is either hardwood or certified by the supplier as "Heat treated (kiln dried) to a core temperature of 133° F (56° C) for a minimum of 30 minutes" ^④	All configurations	-L72
Pole Band and J-Bolts—for mounting on a wood pole ^③	All configurations	-P1
Pole-Band Mounting Provisions—mounting provisions ONLY for pole-band and J-bolts ^③	Upright, Tiered Outboard, Triangular	-P2
Open-Gap Wildlife Protection	Upright	-U
Phase-to-Ground Wildlife Protection ^⑤	Upright	-W

① Switches in the tiered-outboard and vertical mounting configurations require the addition of ice shields to ensure ¾-inch (19.05 mm) ice-breaking capability on opening and ⅝-inch (9.525 mm) ice-breaking capability on closing. Switches in the inverted mounting configuration require the addition of ice shields to ensure a ¾-inch (19.05 mm) ice breaking capability on opening and closing.

② Pole band and J-bolts, Catalog Number Suffix "-P1" or pole band provisions, Catalog Number Suffix "-P2," must be specified.

③ Required when dead-ending to the switch. Includes mounting flanges for pole-band and J-bolts. Refer to Tables 3 and 4 on pages 4 through 7, as applicable, for maximum dead-end loading.

④ Option "-L71" is required when ordering "-L72."

⑤ Not available for switches with silicone insulators.

Table 6. Standard Minor Modifications—For Omni-Rupter Switches with Vertical Operating Shafts

Item	Applicable to Mounting Configurations	Suffix to be Added to Switch Catalog Number
Provisions for power operation of pole-mounted switch by 6801M Automatic Switch Operator—Rotating or Reciprocating	All Configurations, except Inverted	-M
One 2⅝-inch Diameter Tubular Fiberglass Insulating Section in vertical operating shaft (rotating-type operating mechanism)	Upright, Triangular	-S1■
One Cypoxy Insulator Unit in vertical operating shaft	All configurations	-S2
Key Interlock—single lock for "locked-open" application at operating handle	All configurations	-S6■
Provisions-Only Key Interlocks. No lock mechanism included	All configurations	-S6L■
One 1.050-inch Diameter Fiberglass Insulating Rod section in vertical operating shaft (reciprocating-type operating mechanism). (Same diameter as ¾-inch IPS Pipe)	Vertical, Tiered Outboard	-S10■▲
Heavy-Duty Vertical Operating Shaft—1¼-inch IPS pipe in lieu of ¾-inch IPS pipe (reciprocating-type operating mechanism)	Vertical, Tiered Outboard	-S15●
Extra Height—one 6-foot, 10-inch galvanized operating pipe section, with rigid pipe coupling and rod guide (reciprocating-type operating mechanism) or guide bearing (rotating-type mechanism)	All configurations	-V1
Extra Height—two 6-foot, 10-inch galvanized operating pipe sections, each with rigid pipe coupling and rod guide (reciprocating-type operating mechanism) or guide bearing (rotating-type operating mechanism)	All configurations	-V2
Extra Height—three 6-foot, 10-inch galvanized operating pipe sections, each with rigid pipe coupling and rod guide (reciprocating-type operating mechanism) or guide bearing (rotating-type operating mechanism)	All configurations	-V3◆

■ Not available for switches furnished with S&C 6801M Automatic Switch Operator.

▲ Not available for switches with heavy-duty vertical operating shafts.

◆ Vertical and tiered-outboard switches must be furnished with heavy-duty vertical operating shaft (suffix "-S15").

● Switches outfitted with S&C 6801M Automatic Switch Operators (suffix "-M") must also be furnished with heavy-duty vertical operating shaft (suffix "-S15").

Table 7. Insulator Options^①

Item		Suffix to be Added to Switch Catalog Number			
Porcelain Insulators—Replace Cypoxy™ Insulators with Porcelain Station Post Insulators ^②		-SP			
Silicone Insulators—Replace Cypoxy™ Insulators with Silicone Insulators ^③		-K			
Item	Voltage, Nom. kV From → To	Suffix to be Added to Switch Catalog Number	Switches Furnished with		
			Cypoxy Insulators ^④	Porcelain Insulators ^②	Silicone Insulators ^③
Omni-Rupter Switch furnished with insulators of the <i>next-lower</i> voltage rating	14.4 → 7.5	-Z2	Not available	Available	Not available
	25 → 14.4		Available		
Omni-Rupter Switch furnished with insulators of the <i>next-higher</i> voltage rating	14.4 → 25	-Z3	Available	Available●	Available
	25 → 34.5			Not available	

① Omni-Rupter Switches are not available less insulators or less bases.

② Leakage distance is 15½ inches (394 mm) for 14.4-kV insulators and 24 inches (610 mm) for 25-kV insulators.

③ Leakage distance is 20½ inches (521 mm) for 14.4-kV insulators and 32¾ inches (817 mm) for 25-kV insulators.

④ Leakage distance is 14⅞ inches (359 mm) for 14.4-kV insulators and 24⅞ inches (613 mm) for 25-kV insulators.

● 23-kV Station Post Insulator.

Table 8. Parts—For Omni-Rupter Switches and Omni-Rupter Switch Operating Mechanisms

Item	Catalog Number
Spare or Replacement Interrupter—14.4- and 25-kV Switches	SDA-5137■●
2⅝-inch Diameter Tubular Fiberglass Insulating section for vertical operating shaft, including end fittings (rotating-type operating mechanisms)	SA-42936-1
1.050-inch Diameter Fiberglass Insulating section for vertical operating shaft (reciprocating-type operating mechanisms). (Same diameter as ¾-inch IPS Pipe)	SD-6869-4■
Cypoxy Insulator Unit for vertical operating shaft, including end fittings For ¾-inch IPS operating shaft For 1¼-inch IPS operating shaft For 1½-inch IPS operating shaft	PA-7235-1 PA-7235-2 PA-7235-3

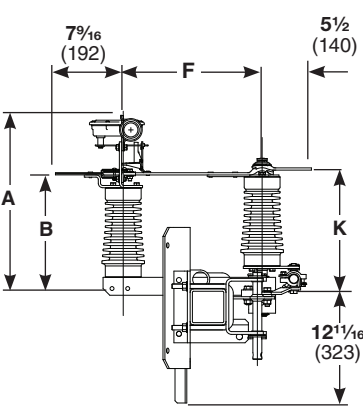
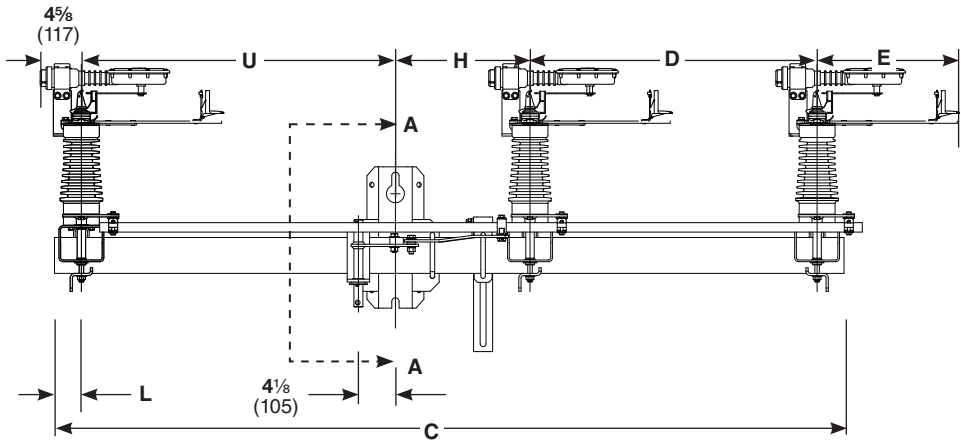
■ Quick-Ship is available, for up to quantity of 3, subject to prior sales.

■ Not available for switches with heavy-duty vertical operating shafts.

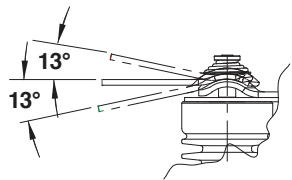
● Only for switches with “-R4” catalog number revision. For “-R3” and previous revision switches, contact your local S&C Sales Office.

Upright Mounting Configuration
Rotating Operating Mechanism

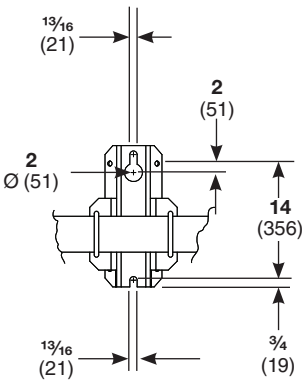
Dimensions in inches (mm)



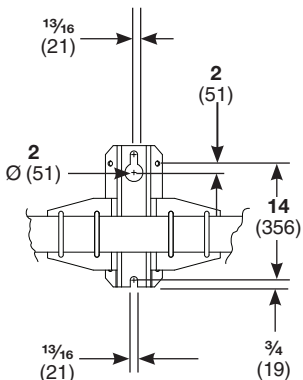
SECTION A-A



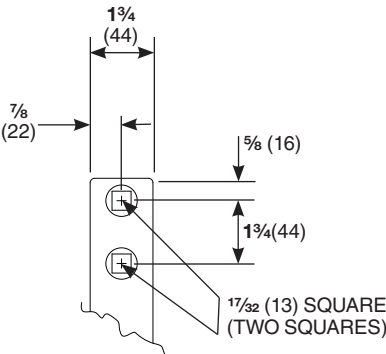
HINGE TERMINAL PAD
ARTICULATING DETAIL



STANDARD
MOUNTING BRACKET DETAIL



POLE BAND
MOUNTING BRACKET DETAIL
(-P1 AND -P2)



TERMINAL PAD DETAIL

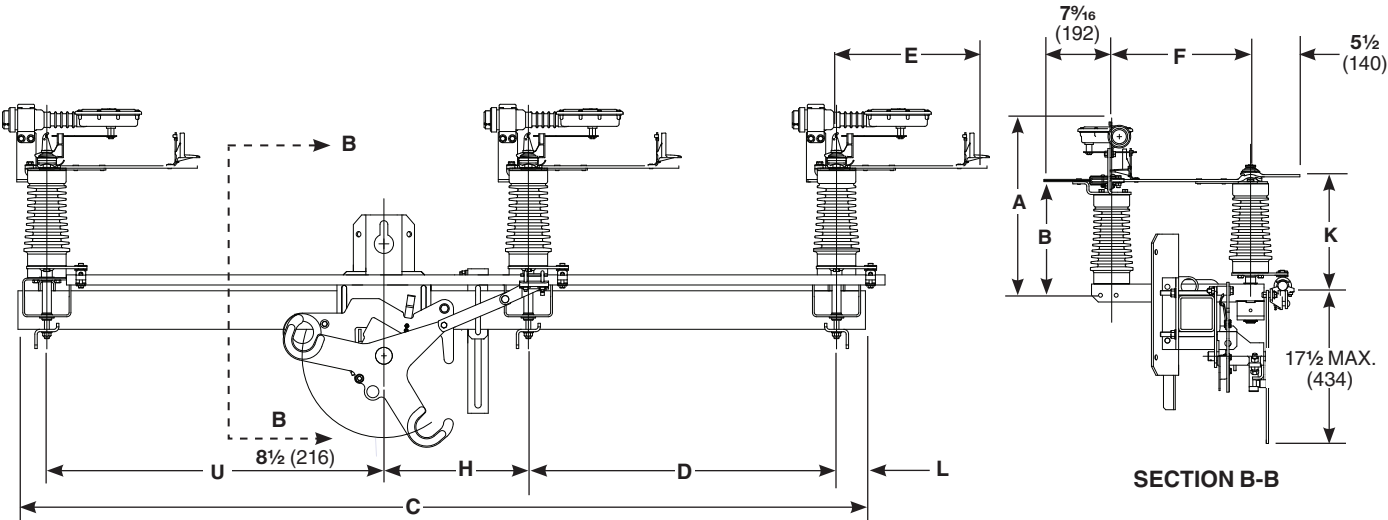
Insulator Material	Base Material	Catalog Number	Dimensions in Inches (mm)										Net Weight, Lbs. (kg)①
			A	B	C	D	E	F	H	K	L	U	
Cypoxy	Steel	147412R4	16½ (410)	9¾ (248)	75 (1950)	26 (660)	13¼ (332)	12¾ (310)	15 (381)	10¼ (260)	3 (76)	28 (711)	226 (102)
		147422R4 ▲	16½ (410)	9¾ (248)	84 (2134)	26 (660)	13¼ (332)	12¾ (310)	24 (610)	10¼ (260)	3 (76)	28 (711)	236 (107)
		147413R4	19¾ (492)	13 (330)	88 (2235)	32 (813)	15⅞ (403)	15½ (394)	15 (381)	13½ (343)	4 (102)	33 (838)	243 (110)
		147423R4 ▲	19¾ (492)	13 (330)	97 (2464)	32 (813)	15⅞ (403)	15½ (394)	24 (610)	13½ (343)	4 (102)	33 (838)	253 (115)
	Insulated	147432R4	16½ (410)	9¾ (248)	75 (1950)	26 (660)	13¼ (332)	12¾ (310)	15 (381)	10¼ (260)	3 (76)	28 (711)	223 (101)
		147442R4 ▲	16½ (410)	9¾ (248)	84 (2134)	26 (660)	13¼ (332)	12¾ (310)	24 (610)	10¼ (260)	3 (76)	28 (711)	233 (105)
		147433R4	19¾ (492)	13 (330)	88 (2235)	32 (813)	15⅞ (403)	15½ (394)	15 (381)	13½ (343)	4 (102)	33 (838)	221 (100)
		147443R4 ▲	19¾ (492)	13 (330)	97 (2464)	32 (813)	15⅞ (403)	15½ (394)	24 (610)	13½ (343)	4 (102)	33 (838)	231 (105)
Porcelain	Steel	147412R4-SP	19¾ (492)	13 (330)	75 (1950)	26 (660)	13¼ (332)	12¾ (310)	15 (381)	13½ (343)	3 (76)	28 (711)	300 (136)
		147422R4-SP ▲	19¾ (492)	13 (330)	84 (2134)	26 (660)	13¼ (332)	12¾ (310)	24 (610)	13½ (343)	3 (76)	28 (711)	310 (140)
		147413R4-SP	23⅞ (594)	13 (330)	88 (2235)	32 (813)	15⅞ (403)	15½ (394)	15 (381)	17½ (444)	4 (102)	33 (838)	372 (169)
		147423R4-SP ▲	23⅞ (594)	17 (432)	97 (2464)	32 (813)	15⅞ (403)	15½ (394)	24 (610)	13½ (343)	4 (102)	33 (838)	382 (173)
	Insulated	147432R4-SP	19¾ (492)	13 (330)	75 (1950)	26 (660)	13¼ (332)	12¾ (310)	15 (381)	13½ (343)	3 (76)	28 (711)	297 (135)
		147442R4-SP ▲	19¾ (492)	13 (330)	84 (2134)	26 (660)	13¼ (332)	12¾ (310)	24 (610)	13½ (343)	3 (76)	28 (711)	307 (139)
		147433R4-SP	23⅞ (594)	17 (432)	88 (2235)	32 (813)	15⅞ (403)	15½ (394)	15 (381)	17½ (444)	4 (102)	33 (838)	350 (159)
		147443R4-SP ▲	23⅞ (594)	17 (432)	97 (2464)	32 (813)	15⅞ (403)	15½ (394)	24 (610)	13½ (343)	4 (102)	33 (838)	360 (163)
Silicone	Steel	147412R4-K	19¾ (492)	13 (330)	75 (1950)	26 (660)	13¼ (332)	12¾ (310)	15 (381)	23¼ (594)	3 (76)	28 (711)	240 (109)
		147422R4-K ▲	19¾ (492)	13 (330)	84 (2134)	26 (660)	13¼ (332)	12¾ (310)	24 (610)	13½ (343)	3 (76)	28 (711)	250 (113)
		147413R4-K	23⅞ (594)	17 (432)	88 (2235)	32 (813)	15⅞ (403)	15½ (394)	15 (381)	17½ (444)	4 (102)	33 (838)	255 (116)
		147423R4-K ▲	23⅞ (594)	17 (432)	97 (2464)	32 (813)	15⅞ (403)	15½ (394)	24 (610)	17½ (444)	4 (102)	33 (838)	265 (120)
	Insulated	147432R4-K	19¾ (492)	13 (330)	75 (1950)	26 (660)	13¼ (332)	12¾ (310)	15 (381)	13½ (343)	3 (76)	28 (711)	237 (107)
		147442R4-K ▲	19¾ (492)	13 (330)	84 (2134)	26 (660)	13¼ (332)	12¾ (310)	24 (610)	13½ (343)	3 (76)	28 (711)	247 (112)
		147433R4-K	23⅞ (594)	17 (432)	88 (2235)	32 (813)	15⅞ (403)	15½ (394)	15 (381)	17½ (444)	4 (102)	33 (838)	233 (106)
		147443R4-K ▲	23⅞ (594)	17 (432)	97 (2464)	32 (813)	15⅞ (403)	15½ (394)	24 (610)	17½ (444)	4 (102)	33 (838)	243 (110)

① Listed net weights are for the switch only and do not include the erection drawing components or crate.

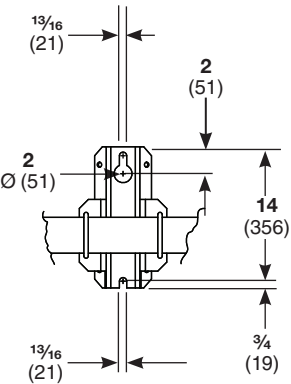
▲ Switch has extra mounting-pole clearance.

Upright Mounting Configuration
Hookstick Operating Mechanism

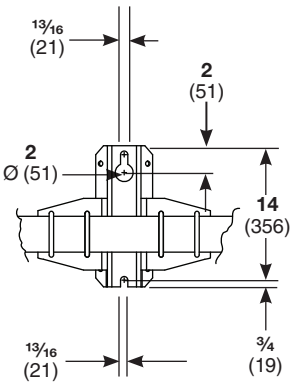
Dimensions in inches (mm)



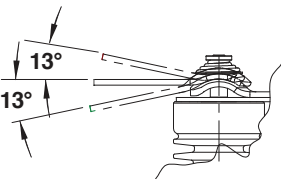
SECTION B-B



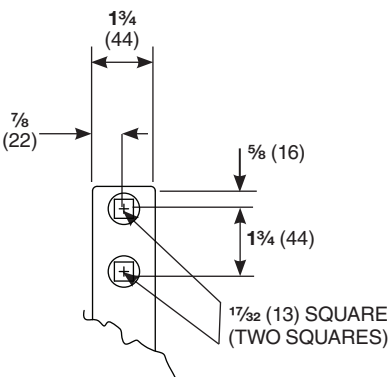
STANDARD
MOUNTING BRACKET DETAIL



POLE BAND
MOUNTING BRACKET DETAIL



HINGE TERMINAL PAD
ARTICULATING DETAIL



TERMINAL PAD DETAIL

Insulator Material	Base Material	Catalog Number ^①	Dimensions in Inches (mm)										Net Weight, Lbs. (kg) ^②
			A	B	C	D	E	F	H	K	L	U	
Cypoxy	Steel	147412R4-H	16 $\frac{1}{8}$ (410)	9 $\frac{3}{4}$ (248)	75 (1950)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	15 (381)	10 $\frac{1}{4}$ (260)	3 (76)	28 (711)	212 (105)
		147422R4-H ▲	16 $\frac{1}{8}$ (410)	9 $\frac{3}{4}$ (248)	84 (2134)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	24 (610)	10 $\frac{1}{4}$ (260)	3 (76)	28 (711)	221 (109)
		147413R4-H	19 $\frac{3}{8}$ (492)	13 (330)	88 (2235)	32 (813)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	15 (381)	13 $\frac{1}{2}$ (343)	4 (102)	33 (838)	220 (116)
		147423R4-H ▲	19 $\frac{3}{8}$ (492)	13 (330)	97 (2464)	32 (813)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	24 (610)	13 $\frac{1}{2}$ (343)	4 (102)	33 (838)	229 (120)
	Insulated	147432R4-H	16 $\frac{1}{8}$ (410)	9 $\frac{3}{4}$ (248)	75 (1950)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	15 (381)	10 $\frac{1}{4}$ (260)	3 (76)	28 (711)	207 (104)
		147442R4-H ▲	16 $\frac{1}{8}$ (410)	9 $\frac{3}{4}$ (248)	84 (2134)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	24 (610)	10 $\frac{1}{4}$ (260)	3 (76)	28 (711)	213 (105)
		147433R4-H	19 $\frac{3}{8}$ (492)	13 (330)	88 (2235)	32 (813)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	15 (381)	13 $\frac{1}{2}$ (343)	4 (102)	33 (838)	198 (106)
		147443R4-H ▲	19 $\frac{3}{8}$ (492)	13 (330)	97 (2464)	32 (813)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	24 (610)	13 $\frac{1}{2}$ (343)	4 (102)	33 (838)	204 (109)
Porcelain	Steel	147412R4-HSP	19 $\frac{3}{8}$ (492)	13 (330)	75 (1950)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	15 (381)	10 $\frac{1}{4}$ (260)	3 (76)	28 (711)	286 (130)
		147422R4-HSP ▲	19 $\frac{3}{8}$ (492)	13 (330)	84 (2134)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	24 (610)	10 $\frac{1}{4}$ (260)	3 (76)	28 (711)	295 (134)
		147413R4-HSP	23 $\frac{3}{8}$ (594)	17 (432)	88 (2235)	32 (813)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	15 (381)	13 $\frac{1}{2}$ (343)	4 (102)	33 (838)	349 (158)
		147423R4-HSP ▲	23 $\frac{3}{8}$ (594)	17 (432)	97 (2464)	32 (813)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	24 (610)	13 $\frac{1}{2}$ (343)	4 (102)	33 (838)	358 (162)
	Insulated	147432R4-HSP	19 $\frac{3}{8}$ (492)	13 (330)	75 (1950)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	15 (381)	10 $\frac{1}{4}$ (260)	3 (76)	28 (711)	283 (128)
		147442R4-HSP ▲	19 $\frac{3}{8}$ (492)	13 (330)	84 (2134)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	24 (610)	10 $\frac{1}{4}$ (260)	3 (76)	28 (711)	287 (130)
		147433R4-HSP	23 $\frac{3}{8}$ (594)	17 (432)	88 (2235)	32 (813)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	15 (381)	13 $\frac{1}{2}$ (343)	4 (102)	33 (838)	327 (148)
		147443R4-HSP ▲	23 $\frac{3}{8}$ (594)	17 (432)	97 (2464)	32 (813)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	24 (610)	13 $\frac{1}{2}$ (343)	4 (102)	33 (838)	333 (151)
Silicone	Steel	147412R4-HK	19 $\frac{3}{8}$ (492)	13 (330)	75 (1950)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	15 (381)	10 $\frac{1}{4}$ (260)	3 (76)	28 (711)	226 (102)
		147422R4-HK ▲	23 $\frac{3}{8}$ (594)	13 (330)	84 (2134)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	24 (610)	10 $\frac{1}{4}$ (260)	3 (76)	28 (711)	235 (106)
		147413R4-HK	19 $\frac{3}{8}$ (492)	17 (432)	88 (2235)	32 (813)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	15 (381)	13 $\frac{1}{2}$ (343)	4 (102)	33 (838)	232 (105)
		147423R4-HK ▲	23 $\frac{3}{8}$ (594)	17 (432)	97 (2464)	32 (813)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	24 (610)	13 $\frac{1}{2}$ (343)	4 (102)	33 (838)	241 (109)
	Insulated	147432R4-HK	19 $\frac{3}{8}$ (492)	13 (330)	75 (1950)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	15 (381)	10 $\frac{1}{4}$ (260)	3 (76)	28 (711)	223 (101)
		147442R4-HK ▲	23 $\frac{3}{8}$ (594)	13 (330)	84 (2134)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	24 (610)	10 $\frac{1}{4}$ (260)	3 (76)	28 (711)	227 (103)
		147433R4-HK	19 $\frac{3}{8}$ (492)	17 (432)	88 (2235)	32 (813)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	15 (381)	13 $\frac{1}{2}$ (343)	4 (102)	33 (838)	210 (95)
		147443R4-HK ▲	23 $\frac{3}{8}$ (594)	13 (330)	97 (2464)	32 (813)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	24 (610)	13 $\frac{1}{2}$ (343)	4 (102)	33 (838)	216 (98)

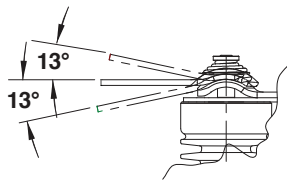
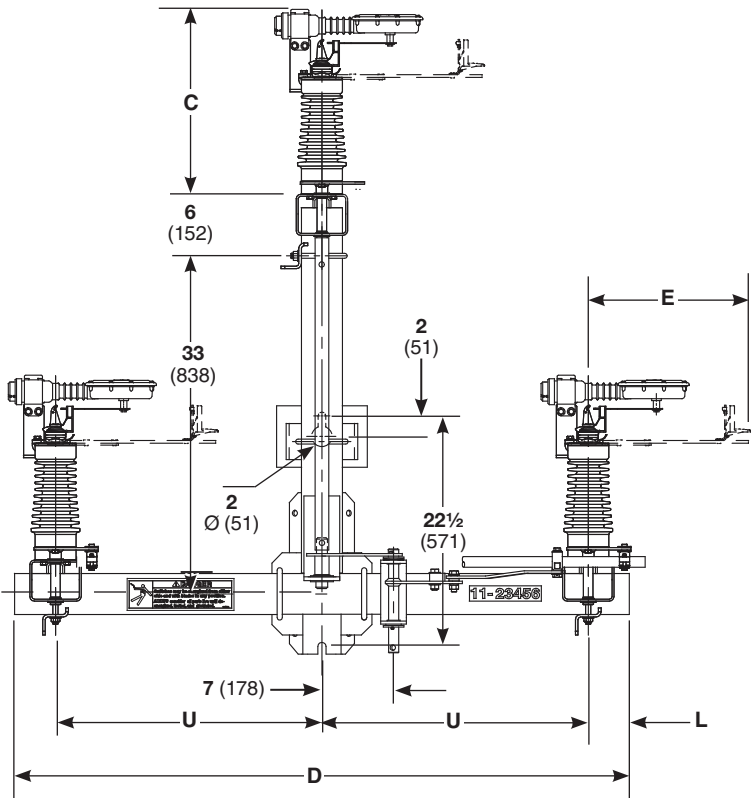
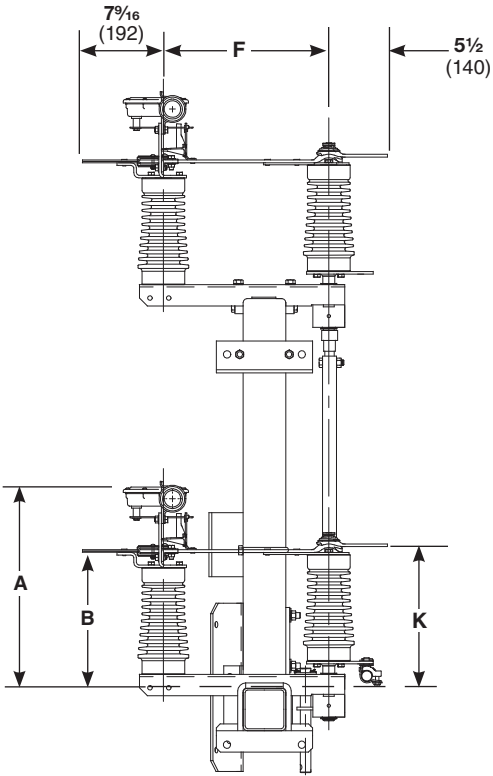
① Switches with Catalog Number Suffix “-H2” include the hookstick operating mechanism and a hookstick-operated lockout/tagout arm. Add 4.5 lbs (2 kg.) to the total assembly weight.

▲ Switch has extra mounting-pole clearance.

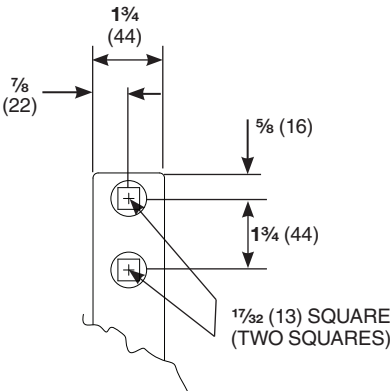
② Listed net weights are for the switch only, and do not include erection drawing components or crate.

Triangular Mounting Configuration
Rotating Operating Mechanism

Dimensions in inches (mm)



HINGE TERMINAL PAD
ARTICULATING DETAIL

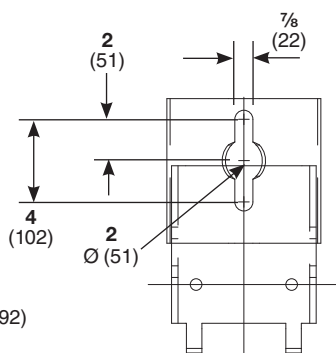
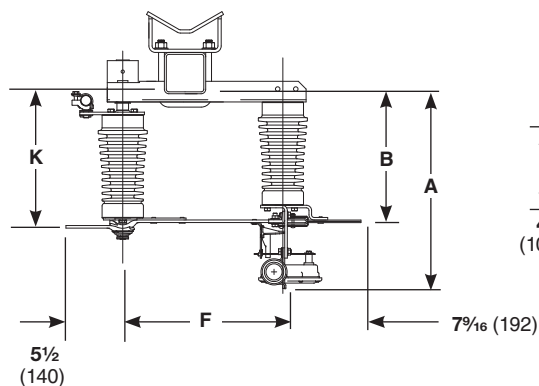
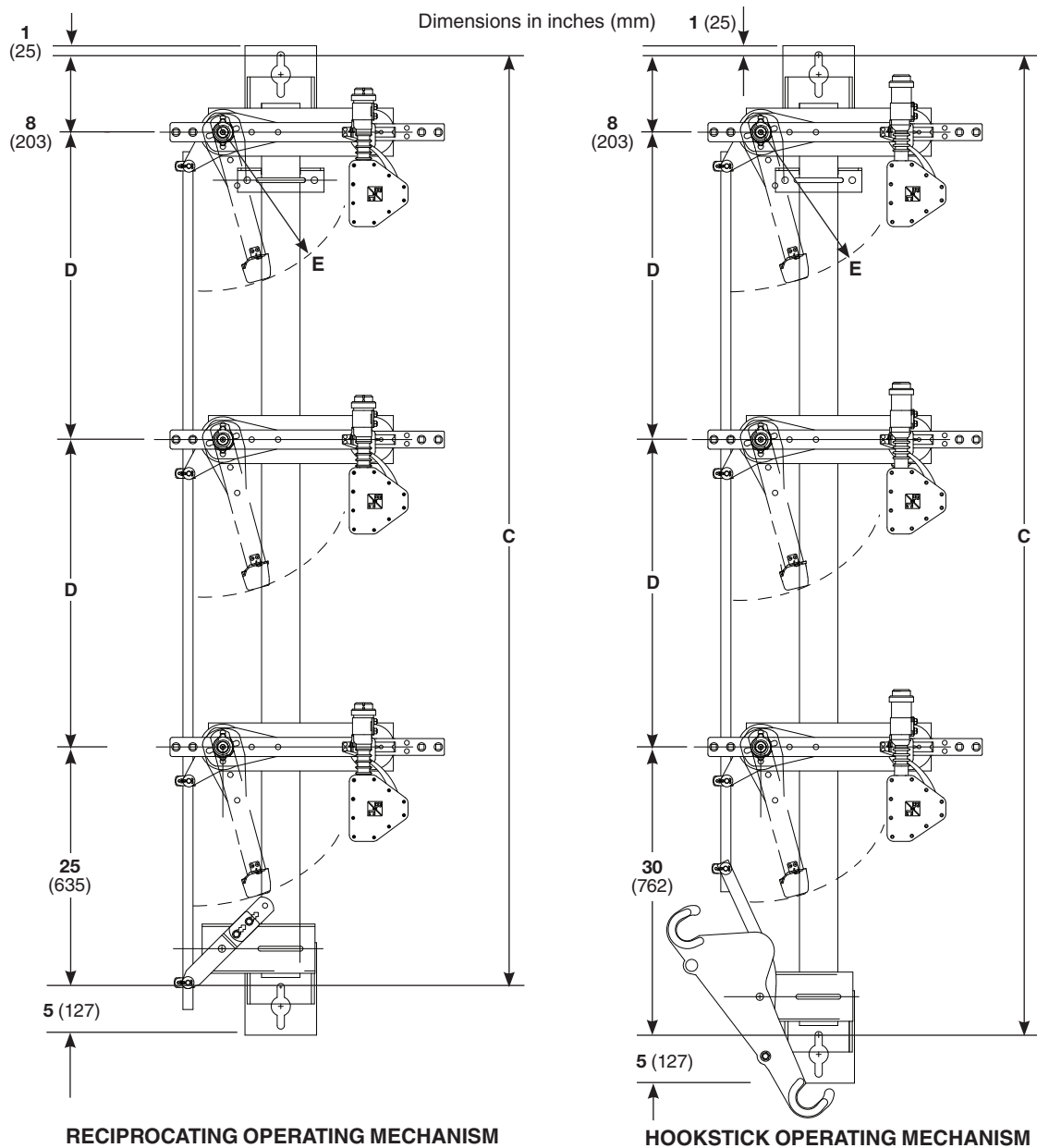


TERMINAL PAD DETAIL

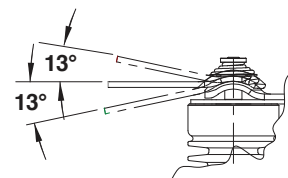
Insulator Material	Base Material	Catalog Number	Dimensions in Inches (mm)									Net Weight, Lbs. (kg)①
			A	B	C	D	E	F	K	L	U	
Cypoxy	Steel	147712R4	16⅞ (410)	9¾ (248)	14⅜ (360)	58 (1475)	13⅛ (332)	12⅜ (310)	10¼ (260)	3 (76)	26 (660)	254 (115)
		147713R4	19⅞ (492)	13 (330)	18⅛ (459)	75 (1905)	15⅞ (403)	15½ (394)	13½ (343)	4½ (114)	33 (838)	280 (127)
Porcelain		147712R4-SP	19⅞ (492)	13 (330)	17⅞ (443)	58 (1475)	13⅛ (332)	12⅜ (310)	13½ (343)	3 (76)	26 (660)	328 (149)
		147713R4-SP	23⅞ (594)	17 (432)	22⅛ (560)	75 (1905)	15⅞ (403)	15½ (394)	17½ (444)	4½ (114)	33 (838)	409 (185)
Silicone		147712R4-K	19⅞ (492)	13 (330)	17⅞ (443)	58 (1475)	13⅛ (332)	12⅜ (310)	13½ (343)	3 (76)	26 (660)	268 (121)
		147713R4-K	23⅞ (594)	17 (432)	22⅛ (560)	75 (1905)	15⅞ (403)	15½ (394)	17½ (444)	4½ (114)	33 (838)	292 (132)

① Listed net weights are for the switch only, and do not include erection drawing components or crate.

Tiered Mounting Configuration
Reciprocating Operating Mechanism and Hookstick Operating Mechanism



TIERED STANDARD
MOUNTING BRACKET DETAIL



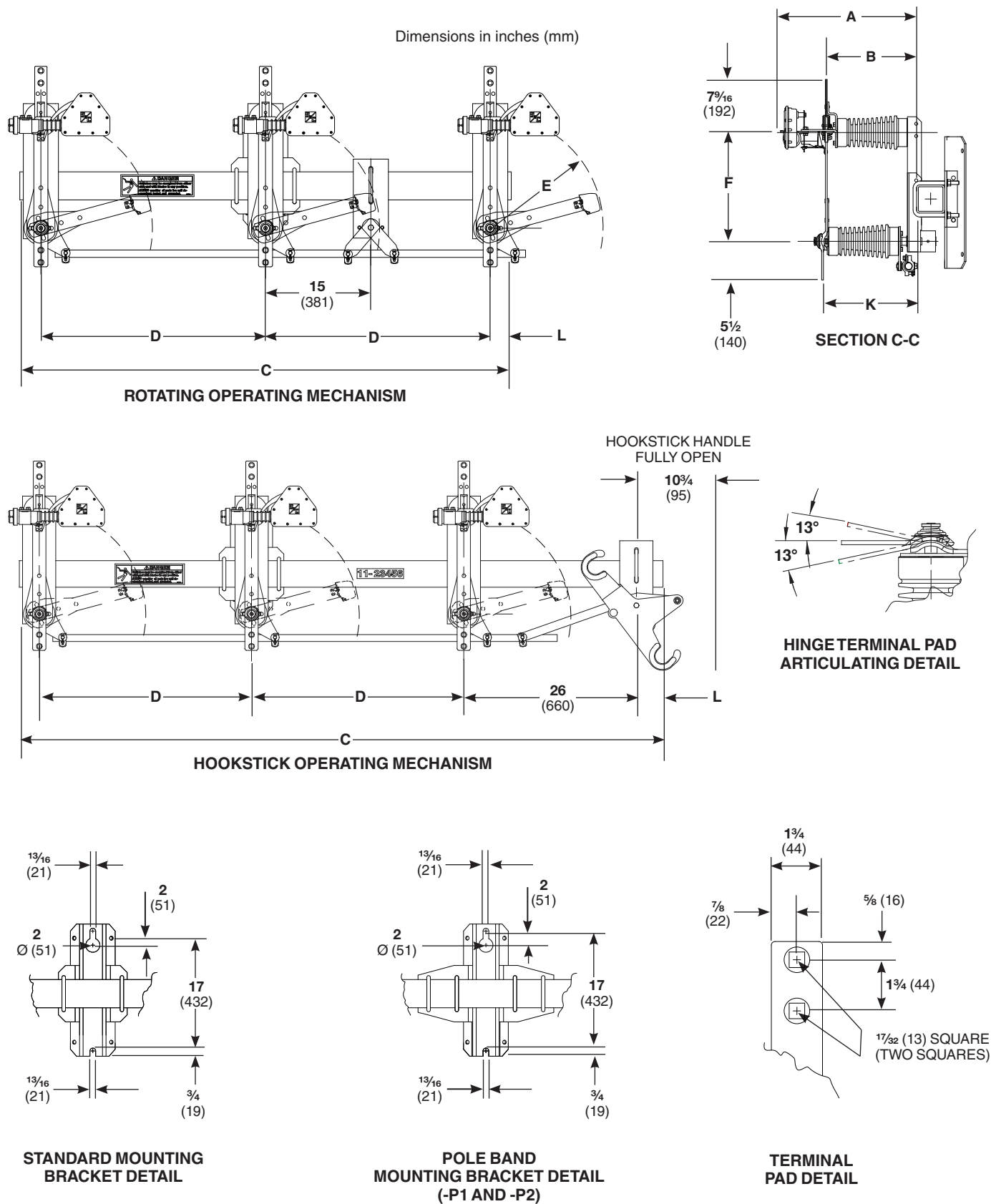
HINGE TERMINAL PAD
ARTICULATING DETAIL

Insulator Material	Base Material	Catalog Number ①	Dimensions in Inches (mm)								Net Weight, Lbs. (kg) ②
			A	B	C	D	E	F	G	K	
Cypoxy	Steel	147812R4	16½ (410)	9¾ (248)	85 (2159)	26 (660)	13⅛ (332)	12¾ (310)	5½ (140)	10¼ (260)	207 (94)
		147813R4	19¾ (492)	13 (330)	97 (2464)	32 (813)	15⅞ (403)	15½ (394)	6 (152)	13½ (343)	230 (104)
		147812R4-H	16½ (410)	9¾ (248)	90 (2286)	26 (660)	13⅛ (332)	12¾ (310)	3 (76)	10¼ (260)	231 (104)
		147813R4-H	19¾ (492)	13 (330)	102 (2591)	32 (813)	15⅞ (403)	15½ (394)	3½ (89)	13½ (343)	250 (113)
	Insulated	147832R4	16½ (410)	9¾ (248)	85 (2159)	26 (660)	13⅛ (332)	12¾ (310)	5½ (140)	10¼ (260)	162 (74)
		147833R4	19¾ (492)	13 (330)	97 (2464)	32 (813)	15⅞ (403)	15½ (394)	6 (152)	13½ (343)	175 (79)
		147832R4-H	16½ (410)	9¾ (248)	90 (2286)	26 (660)	13⅛ (332)	12¾ (310)	3 (76)	10¼ (260)	223 (101)
		147833R4-H	19¾ (492)	13 (330)	102 (2591)	32 (813)	15⅞ (403)	15½ (394)	3½ (89)	13½ (343)	225 (102)
Porcelain	Steel	147812R4-SP	19¾ (492)	13 (330)	85 (2159)	26 (660)	13⅛ (332)	12¾ (310)	5½ (140)	13½ (343)	282 (127)
		147813R4-SP	23¾ (594)	17 (432)	97 (2464)	32 (813)	15⅞ (403)	15½ (394)	6 (152)	17½ (444)	359 (163)
		147812R4-HSP	19¾ (492)	13 (330)	90 (2268)	26 (660)	13⅛ (332)	12¾ (310)	3 (76)	13½ (343)	305 (138)
		147813R4-HSP	23¾ (594)	17 (432)	102 (2591)	32 (813)	15⅞ (403)	15½ (394)	3½ (89)	17½ (444)	379 (172)
	Insulated	147832R4-SP	19¾ (492)	13 (330)	85 (2159)	26 (660)	13⅛ (332)	12¾ (310)	5½ (140)	13½ (343)	237 (107)
		147833R4-SP	23¾ (594)	17 (432)	97 (2464)	32 (813)	15⅞ (403)	15½ (394)	6 (152)	17½ (444)	304 (138)
		147832R4-HSP	19¾ (492)	13 (330)	90 (2286)	26 (660)	13⅛ (332)	12¾ (310)	3 (76)	13½ (343)	297 (135)
		147833R4-HSP	23¾ (594)	17 (432)	102 (2591)	32 (813)	15⅞ (403)	15½ (394)	3½ (89)	17½ (444)	354 (160)
Silicone	Steel	147812R4-K	19¾ (492)	13 (330)	85 (2149)	26 (660)	13⅛ (332)	12¾ (310)	5½ (140)	13½ (343)	222 (100)
		147813R4-K	23¾ (594)	17 (432)	97 (2464)	32 (813)	15⅞ (403)	15½ (394)	6 (152)	17½ (444)	242 (109)
		147812R4-HK	19¾ (492)	13 (330)	90 (2286)	26 (660)	13⅛ (332)	12¾ (310)	3 (76)	13½ (343)	245 (111)
		147813R4-HK	23¾ (594)	17 (432)	102 (2591)	32 (813)	15⅞ (403)	15½ (394)	3½ (89)	17½ (444)	262 (119)
	Insulated	147832R4-K	19¾ (492)	13 (330)	85 (2149)	26 (660)	13⅛ (332)	12¾ (310)	5½ (140)	13½ (343)	177 (80)
		147833R4-K	23¾ (594)	17 (432)	97 (2464)	32 (813)	15⅞ (403)	15½ (394)	6 (152)	17½ (444)	187 (85)
		147832R4-HK	19¾ (492)	13 (330)	90 (2286)	26 (660)	13⅛ (332)	12¾ (310)	3 (76)	13½ (343)	237 (107)
		147833R4-HK	23¾ (594)	17 (432)	102 (2591)	32 (813)	15⅞ (403)	15½ (394)	3½ (89)	17½ (444)	237 (107)

① Switches with Catalog Number Suffix “-H2” include the hookstick operating mechanism and a hookstick-operated lockout/tagout arm. Add 4.5 lbs (2 kg.) to the total assembly weight.

② Listed net weights are for the switch only, and do not include the erection drawing components or crate.

Three-Pole Side-Break Integer Style Vertical Mounting Configuration—Reciprocating and Hookstick Operating Mechanism



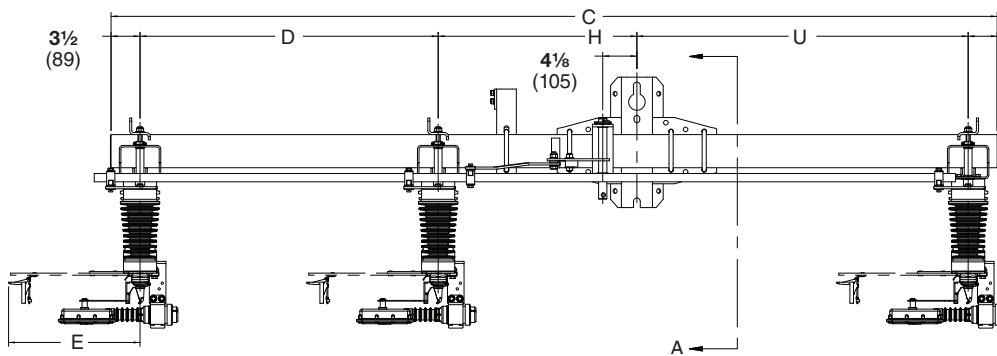
Insulator Material	Base Material	Catalog Number ^①	Dimensions in Inches (mm)								Net Weight, Lbs. (kg) ^②
			A	B	C	D	E	F	K	L	
Cypoxy	Steel	147512R4	16⅞ (410)	9¾ (248)	58 (1475)	26 (660)	13⅜ (332)	12⅜ (310)	10¼ (260)	3 (76)	231 (105)
		147513R4	19⅜ (492)	13 (330)	75 (1905)	33 (838)	15⅞ (403)	15½ (394)	13½ (343)	4½ (114)	256 (116)
		147512R4-H	16⅞ (410)	9¾ (248)	75 (1905)	43 (1092)	—	12⅜ (310)	10¼ (260)	15 (381)	230 (104)
		147513R4-H	19⅜ (492)	13 (330)	88 (2235)	48 (1219)	—	15½ (394)	13½ (343)	15 (381)	250 (113)
	Insulated	147532R4	16⅞ (410)	9¾ (248)	58 (1475)	26 (660)	13⅜ (332)	12⅜ (310)	10¼ (260)	3 (76)	198 (89)
		147533R4	19⅜ (492)	13 (330)	75 (1905)	33 (838)	15⅞ (403)	15½ (394)	13½ (343)	4½ (114)	211 (96)
		147532R4-H	16⅞ (410)	9¾ (248)	75 (1905)	43 (1092)	—	12⅜ (310)	10¼ (260)	15 (381)	223 (100)
		147533R4-H	19⅜ (492)	13 (330)	88 (2235)	48 (1219)	—	15½ (394)	13½ (343)	15 (381)	225 (102)
Porcelain	Steel	147512R4-SP	19⅜ (492)	13 (330)	58 (1475)	26 (660)	13⅜ (332)	12⅜ (310)	13½ (343)	3 (76)	306 (139)
		147513R4-SP	23⅜ (594)	17 (432)	75 (1905)	33 (838)	15⅞ (403)	15½ (394)	17½ (444)	4½ (114)	385 (175)
		147512R4-HSP	19⅜ (492)	13 (330)	75 (1905)	43 (1092)	—	12⅜ (310)	13½ (343)	15 (381)	305 (138)
		147513R4-HSP	23⅜ (594)	17 (432)	88 (2235)	48 (1219)	—	15½ (394)	17½ (444)	15 (381)	379 (172)
	Insulated	147532R4-SP	19⅜ (492)	13 (330)	58 (1475)	26 (660)	13⅜ (332)	12⅜ (310)	13½ (343)	3 (76)	272 (123)
		147533R4-SP	23⅜ (594)	17 (432)	75 (1905)	33 (838)	15⅞ (403)	15½ (394)	17½ (444)	4½ (114)	340 (154)
		147532R4-HSP	19⅜ (492)	13 (330)	75 (1905)	43 (1092)	—	12⅜ (310)	13½ (343)	15 (381)	297 (134)
		147533R4-HSP	23⅜ (594)	17 (432)	88 (2235)	48 (1219)	—	15½ (394)	17½ (444)	15 (381)	354 (160)
Silicone	Steel	147512R4-K	19⅜ (492)	13 (330)	58 (1475)	26 (660)	13⅜ (332)	12⅜ (310)	13½ (343)	3 (76)	246 (111)
		147513R4-K	23⅜ (594)	17 (432)	75 (1905)	33 (838)	15⅞ (403)	15½ (394)	17½ (444)	4½ (114)	268 (121)
		147512R4-HK	19⅜ (492)	13 (330)	75 (1905)	43 (1092)	—	12⅜ (310)	13½ (343)	15 (381)	245 (111)
		147513R4-HK	23⅜ (594)	17 (432)	88 (2235)	48 (1219)	—	15½ (394)	17½ (444)	15 (381)	262 (119)
	Insulated	147532R4-K	19⅜ (492)	13 (330)	58 (1475)	26 (660)	13⅜ (332)	12⅜ (310)	13½ (343)	3 (76)	212 (96)
		147533R4-K	23⅜ (594)	17 (432)	75 (1905)	33 (838)	15⅞ (403)	15½ (394)	17½ (444)	4½ (114)	223 (101)
		147532R4-HK	19⅜ (492)	13 (330)	75 (1905)	43 (1092)	—	12⅜ (310)	13½ (343)	15 (381)	237 (107)
		147533R4-HK	23⅜ (594)	17 (432)	88 (2235)	48 (1219)	—	15½ (394)	17½ (444)	15 (381)	237 (107)

① Switches with Catalog Number Suffix “-H2” include the hookstick operating mechanism and a hookstick-operated lockout/tagout arm. Add 4.5 lbs (2 kg.) to the total assembly weight.

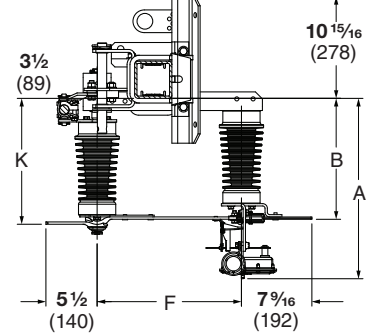
② Listed net weights are for the switch only, and do not include the erection drawing components or crate.

Three-Pole Side-Break Integer Style

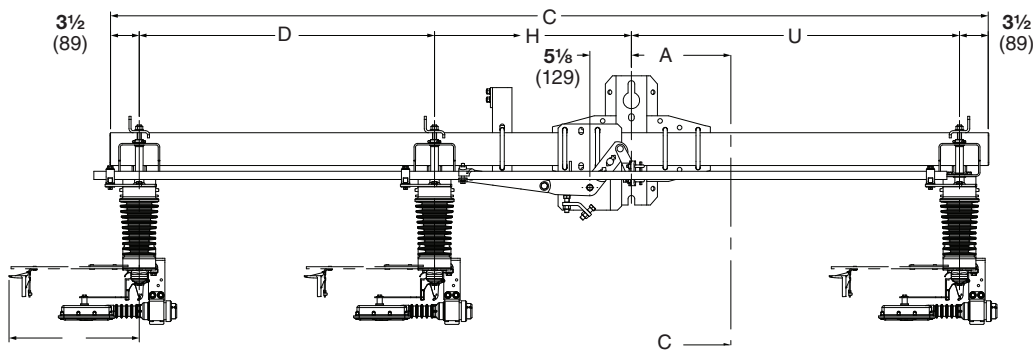
Inverted Mounting Configuration—Rotating and Reciprocating Operating Mechanism



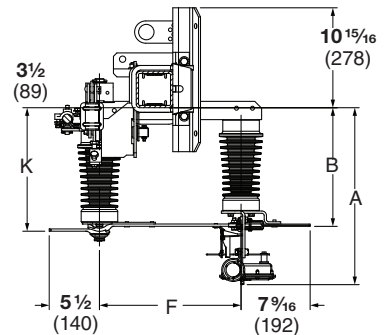
ROTATING OPERATING MECHANISM



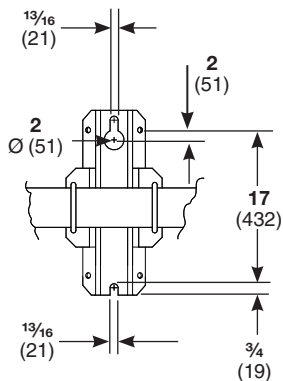
SECTION C-C



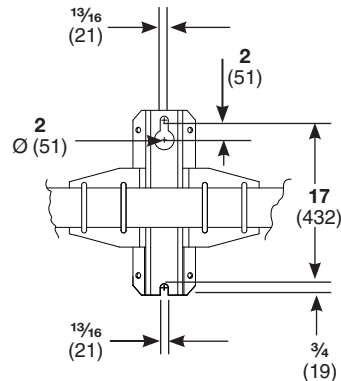
RECIPROCATING OPERATING MECHANISM



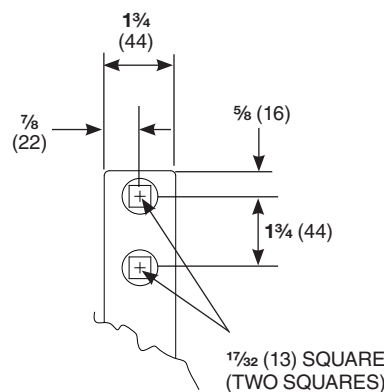
SECTION C-C



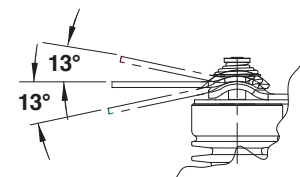
STANDARD MOUNTING
BRACKET DETAIL



POLE BAND
MOUNTING BRACKET DETAIL
(-P1 AND -P2)



TERMINAL
PAD DETAIL

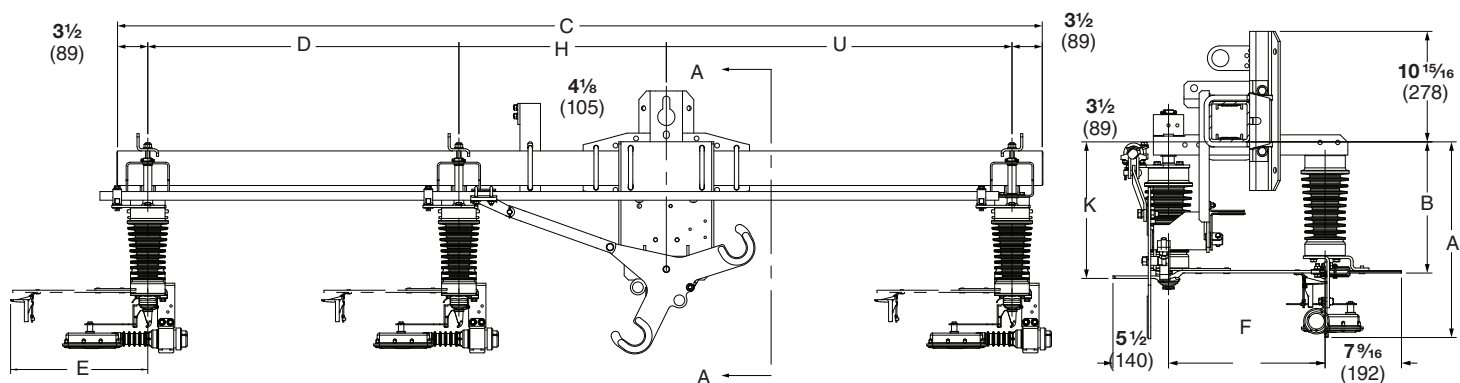


HINGE TERMINAL PAD
ARTICULATING DETAIL

Insulator Material	Base Material	Catalog Number	Dimensions in Inches (mm)								Net Weight, Lbs. (kg)①
			A	B	C	D	E	F	K	U	
Cypoxy	Steel	147212R4	16⅞ (410)	9¾ (248)	97 (2464)	31 (787)	13⅜ (332)	12⅜ (310)	10¼ (260)	36 (914)	245 (112)
		147213R4	19⅞ (492)	13 (330)	75 (1905)	33 (838)	15⅞ (403)	15½ (394)	13½ (343)	40 (1016)	261 (119)
		147912R4	16⅞ (410)	9¾ (248)	75 (1905)	43 (1092)	—	12⅜ (310)	10¼ (260)	36 (381)	250 (114)
		147913R4	19⅞ (492)	13 (330)	88 (2235)	48 (1219)	—	15½ (394)	13½ (343)	40 (1016)	266 (121)
	Insulated	147232R4	16⅞ (410)	9¾ (248)	58 (1475)	26 (660)	13⅜ (332)	12⅜ (310)	10¼ (260)	36 (914)	238 (108)
		147233R4	19⅞ (492)	13 (330)	75 (1905)	33 (838)	15⅞ (403)	15½ (394)	13½ (343)	40 (1016)	250 (114)
		147932R4	16⅞ (410)	9¾ (248)	75 (1905)	43 (1092)	—	12⅜ (310)	10¼ (260)	36 (914)	243 (111)
		147933R4	19⅞ (492)	13 (330)	88 (2235)	48 (1219)	—	15½ (394)	13½ (343)	40 (1016)	255 (116)
Porcelain	Steel	147212R4-SP	19⅞ (492)	13 (330)	58 (1475)	26 (660)	13⅜ (332)	12⅜ (310)	13½ (343)	36 (914)	319 (145)
		147213R4-SP	23⅞ (594)	17 (432)	75 (1905)	33 (838)	15⅞ (403)	15½ (394)	17½ (445)	40 (1016)	390 (177)
		147912R4-SP	19⅞ (492)	13 (330)	75 (1905)	43 (1092)	—	12⅜ (310)	13½ (343)	36 (914)	324 (147)
		147913R4-SP	23⅞ (594)	17 (432)	88 (2235)	48 (1219)	—	15½ (394)	17½ (445)	40 (1016)	395 (180)
	Insulated	147232R4-SP	19⅞ (492)	13 (330)	58 (1475)	26 (660)	13⅜ (332)	12⅜ (310)	13½ (343)	36 (914)	312 (142)
		147233R4-SP	23⅞ (594)	17 (432)	75 (1905)	33 (838)	15⅞ (403)	15½ (394)	17½ (445)	40 (1016)	379 (172)
		147932R4-SP	19⅞ (492)	13 (330)	75 (1905)	43 (1092)	—	12⅜ (310)	13½ (343)	36 (914)	317 (144)
		147933R4-SP	23⅞ (594)	17 (432)	88 (2235)	48 (1219)	—	15½ (394)	17½ (445)	40 (1016)	384 (175)
Silicone	Steel	147212R4-K	19⅞ (492)	13 (330)	58 (1475)	26 (660)	13⅜ (332)	12⅜ (310)	13½ (343)	36 (914)	259 (118)
		147213R4-K	23⅞ (594)	17 (432)	75 (1905)	33 (838)	15⅞ (403)	15½ (394)	17½ (445)	40 (1016)	273 (124)
		147912R4-K	19⅞ (492)	13 (330)	75 (1905)	43 (1092)	—	12⅜ (310)	13½ (343)	36 (914)	264 (120)
		147913R4-K	23⅞ (594)	17 (432)	88 (2235)	48 (1219)	—	15½ (394)	17½ (445)	40 (1016)	278 (127)
	Insulated	147232R4-K	19⅞ (492)	13 (330)	58 (1475)	26 (660)	13⅜ (332)	12⅜ (310)	13½ (343)	36 (914)	252 (115)
		147233R4-K	23⅞ (594)	17 (432)	75 (1905)	33 (838)	15⅞ (403)	15½ (394)	17½ (445)	40 (1016)	262 (119)
		147932R4-K	19⅞ (492)	13 (330)	75 (1905)	43 (1092)	—	12⅜ (310)	13½ (343)	36 (914)	257 (117)
		147933R4-K	23⅞ (594)	17 (432)	88 (2235)	48 (1219)	—	15½ (394)	17½ (445)	40 (1016)	267 (122)

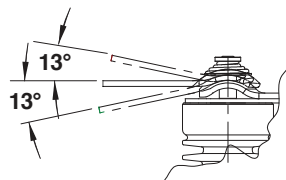
① Listed net weights are for the switch only, and do not include the erection drawing components or crate.

Three-Pole Side-Break Integer Style Inverted Mounting Configuration—Hookstick Operating Mechanism

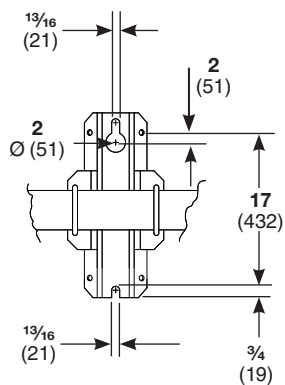


HOOKSTICK OPERATING MECHANISM

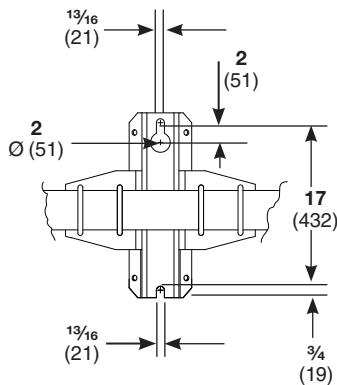
SECTION C-C



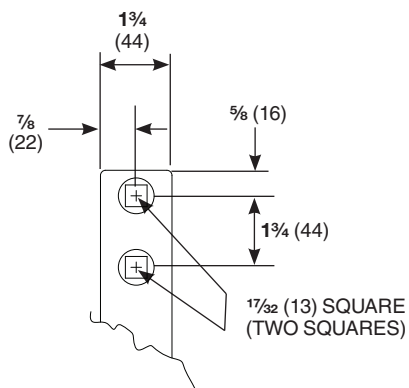
HINGE TERMINAL PAD
ARTICULATING DETAIL



STANDARD MOUNTING
BRACKET DETAIL



POLE BAND
MOUNTING BRACKET DETAIL
(-P1 AND -P2)



TERMINAL
PAD DETAIL

Insulator Material	Base Material	Catalog Number ①	Dimensions in Inches (mm)								Net Weight, Lbs. (kg) ②
			A	B	C	D	E	F	K	U	
Cypoxy	Steel	147212R4-H	16 $\frac{1}{8}$ (410)	9 $\frac{3}{4}$ (248)	97 (2464)	31 (787)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	10 $\frac{1}{4}$ (260)	36 (914)	245 (112)
		147213R4-H	19 $\frac{3}{8}$ (492)	13 (330)	75 (1905)	33 (838)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	13 $\frac{1}{2}$ (343)	40 (1016)	261 (119)
	Insulated	147232R4-H	16 $\frac{1}{8}$ (410)	9 $\frac{3}{4}$ (248)	58 (1475)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	10 $\frac{1}{4}$ (260)	36 (914)	238 (108)
		147233R4-H	19 $\frac{3}{8}$ (492)	13 (330)	75 (1905)	33 (838)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	13 $\frac{1}{2}$ (343)	40 (1016)	250 (114)
Porcelain	Steel	147212R4-HSP	19 $\frac{3}{8}$ (492)	13 (330)	58 (1475)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	13 $\frac{1}{2}$ (343)	36 (914)	319 (145)
		147213R4-HSP	23 $\frac{3}{8}$ (594)	17 (432)	75 (1905)	33 (838)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	17 $\frac{1}{2}$ (445)	40 (1016)	390 (177)
	Insulated	147232R4-HSP	19 $\frac{3}{8}$ (492)	13 (330)	58 (1475)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	13 $\frac{1}{2}$ (343)	36 (914)	312 (142)
		147233R4-HSP	23 $\frac{3}{8}$ (594)	17 (432)	75 (1905)	33 (838)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	17 $\frac{1}{2}$ (445)	40 (1016)	379 (172)
Silicone	Steel	147212R4-HK	19 $\frac{3}{8}$ (492)	13 (330)	58 (1475)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	13 $\frac{1}{2}$ (343)	36 (914)	259 (118)
		147213R4-HK	23 $\frac{3}{8}$ (594)	17 (432)	75 (1905)	33 (838)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	17 $\frac{1}{2}$ (445)	40 (1016)	273 (124)
	Insulated	147232R4-HK	19 $\frac{3}{8}$ (492)	13 (330)	58 (1475)	26 (660)	13 $\frac{1}{16}$ (332)	12 $\frac{3}{16}$ (310)	13 $\frac{1}{2}$ (343)	36 (914)	252 (115)
		147233R4-HK	23 $\frac{3}{8}$ (594)	17 (432)	75 (1905)	33 (838)	15 $\frac{7}{8}$ (403)	15 $\frac{1}{2}$ (394)	17 $\frac{1}{2}$ (445)	40 (1016)	262 (119)

① Switches with Catalog Number Suffix “-H2” include the hookstick operating mechanism and a hookstick-operated lockout/tagout arm. Add 4.5 lbs (2 kg.) to the total assembly weight.

② Listed net weights are for the switch only, and do not include the erection drawing components or crate.