## Specifications

## Conditions of Sale

STANDARD: The seller's standard conditions of sale set forth in Price Sheet 150 apply, except as modified under the "Warranty Qualifications" section on page 4.

## SPECIAL TO THIS PRODUCT:

INCLUSIONS: Source-Transfer PMH Pad-Mounted Gear provides fully automatic primary-selective service and fault protection for one or two critical load circuits on solidly grounded systems. These models contain:

- Stored-energy switch-operator-driven 600-ampere Mini-Rupter® Switches for three-pole live switching of three-phase source circuits
- A totally self-contained automatic source-transfer package with S\&C Voltage Sensors for sensing and control power, and the Micro-AT® Source-Transfer Control for programmed control of all switching functions associated with automatic source transfer
- Decouplers to permit exercising the switch operators without affecting the position of the switches
- 200-ampere hookstick-operated S\&C Power Fuses with Uni-Rupter® Interrupters for single-pole live switching of single-phase or three-phase load circuits (These models offer a choice of S\&C Type SML-20 and SML-4Z Power Fuses or Fault Fiter® Electronic Power Fuses. Fault Fiter Electronic Power Fuse mountings also accommodate a variety of singlebarrel current-limiting fuses as listed in Table 1 of S\&C Information Bulletin 660-50.)
The stored-energy switch-operator-driven Mini-Rupter Switches on the source circuits provide highspeed source transfer for primary-selective systems. The transfer is achieved in 10 cycles, plus any intentional time delay for coordination.

The stored-energy operators are motor-charged with automatic solenoid Trip Open and Trip Closed operation. Automatic tripping of the operators is initiated by the Micro-AT Source-Transfer Control, which uses an advanced electronic microprocessor to perform control operations in accordance with settings programmed into the device at the factory and in the field.

The stored-energy operators and source-transfer control are isolated from medium voltage in a grounded, steel-enclosed, low-voltage compartment that has fully gasketed door openings. S\&C Voltage Sensors-three for each source-provide three-phase sensing, control power, and supply power for motor charging and tripping.

Enclosures meet the requirements of ANSI C57.12.28 (enclosure integrity). They are of free-standing, self-supporting construction, not for bolting directly to transformers, with provisions for cable entrance and exit through the bottom. Access to medium-voltage and low-voltage compartments is controlled by the Penta-Latch ${ }^{\circledR}$ Mechanism. The Penta-Latch Mechanism provides automatic door latching and permits padlocking only when the door is securely latched. The door can be opened only with a pentahead socket wrench or tool.

The enclosure roof is undercoated with an insulating "no-drip" compound. A resilient closed-cell gasket on the enclosure bottom flange protects the finish from being scratched during installation and isolates it from the alkalinity of a concrete foundation. S\&C Pad-Mounted Gear is protected from corrosion by S\&C's olive green Ultradur® II Outdoor Finish.

A dual-purpose front barrier of fiberglass-reinforced polyester is provided for each switch and fuse. Where the National Electric Safety Code (ANSI Standard C2) applies, these barriers meet the requirements of Section 381G. When the switch or fuse is in the Open position, this barrier can be inserted into the open gap to guard against inadvertent contact with live parts. Interphase and end-barriers of the same material are provided with each switch and each set of fuses where required to achieve published BIL ratings. Additional barriers of fiberglass-reinforced polyester separate front and rear compartments and isolate the tie bus. Full-length steel barriers separate adjoining compartments.

These PMH models are provided with a Grappler ${ }^{\text {TM }}$ Handling Tool (S\&C fuse-handling fitting), an instruction manual holder on the inside of the control-compartment door, and storage racks in the fuse-compartment doors for spare S\&C Fuse Units or Refill Units and for the Grappler tool (storage for Fault Fiter Electronic Power Fuses or current-limiting fuses cannot be provided in these racks). Terminal pads can accommodate a variety of cable-terminating devices for cable sizes through 1000 kc mil for switch terminals, $4 / 0$ maximum for fuse terminals. Each switch and fuse terminal is provided with a ground stud as is each ground pad.

The cable-terminating devices must be equipped either with an offset spade-type compression terminal for bolting directly to the terminal pad or with a rod-type compression terminal for attachment to a connector of the type shown in Table 18 on page 17. For applications where additional height is desired for increased elevation of ungrounded parts above the mounting pad, and to facilitate cable pulling and makeup of cable-terminating devices, particularly where no cable pit is used, base spacers are available as listed in Table 4 on page 7.

While the interior of S\&C Pad-Mounted Gear is protected from direct exposure to the elements, it is inherently an outdoor environment requiring selection and application of cable-terminating devices accordingly. Terminations must incorporate adequate leakage distance between the exposed conductor and the stress-relief cone across a surface of nontracking material (or a surface rendered nontracking by properly taping with a suitable material).

Furthermore, to maintain the rated BIL, the following minimum clearances are required: 6 inches ( 152 mm ) at 14.4 kV and $71 / 2$ inches ( 191 mm ) at 25 kV from energized parts to electrical ground; 1 inch ( 25 mm ) at 14.4 kV and $21 / 4$ inches ( 57 mm ) at 25 kV from energized parts to fiber-glass-reinforced polyester barriers; $1 / 2$-inch $(13 \mathrm{~mm})$ at 14.4 kV and $11 / 4$ inches $(32 \mathrm{~mm})$ at 25 kV from terminator skirts to fiberglass-reinforced polyester barriers.
EXCLUSIONS: Three-phase units listed in Table 3 on page 6 do not include the items listed in Table 4 on pages 7 through 9 , nor do they include the connector, fuse components, switch blades, or accessories listed in Table 5, Table 6, and Table 7 on page 10, Table 14 and Table 15 on page 16, and Table 18 on page 17.
SPECIFICATION DEVIATIONS: Features or modifications other than those listed in Table 4 on pages 7 through 9 cannot be accommodated. Specifically, the following modifications or additions are not available except in custom-design gear or other standard models of S\&C gear:

- Relocation of components (switches, fuses, storedenergy operators, and source-transfer control)
- Inclusion in fuse compartments of surge arresters or porcelain cable-terminating devices
- Separable insulated connectors (either 200 or 600 ampere)
- Intermediate- or station-class surge arresters

Certain minor departures from the optional features can be accommodated. For example, the user may want copper bus instead of aluminum bus. Such deviations can be accommodated by a "minor modification." Contact the nearest S\&C Sales Office for availability.
APPLICATION NOTES: S\&C Voltage Sensors, which provide power for Source-Transfer PMH models, are constant-current-output devices. For adequate power to be available, these models must be applied at system line-to-line voltages ranging from 11.43 kV through 17.0 kV for $14.4-\mathrm{kV}$ models and from 20.44 kV through 29 kV for $25-\mathrm{kV}$ models. For lower system voltages, contact the nearest S\&C Sales Office.

For application information as well as a guide to the selection of appropriate ampere ratings and speeds of S\&C SML Power Fuses and types and TCC curve parameters of control modules for Fault Fiter Electronic Power Fuses, contact the nearest S\&C Sales Office.

## Switching with Uni-Rupter Interrupters

Source-Transfer PMH Pad-Mounted Gear features fuses with Uni-Rupter Interrupters for single-pole live switching of single-phase or three-phase load circuits on distribution systems rated 14.4 kV or 25 kV .

Complete ratings and capabilities of S\&C Power Fuses with Uni-Rupter Interrupters as applied in SourceTransfer PMH Pad-Mounted Gear are shown in Table 1. Uni-Rupter Interrupters are also capable of carrying and interrupting load currents up to and including the emergency-peak load capabilities of the associated SML power fuses.

In addition to the load-dropping capabilities shown, Uni-Rupter Interrupters are capable of interrupting transformer magnetizing currents associated with the applicable loads, as well as line-charging and cablecharging currents typical for distribution systems of these voltage ratings. The duty-cycle fault-closing capabilities shown for S\&C Power Fuses with Uni-Rupter Interrupters represent the fault-closing capabilities of the fuse with a Uni-Rupter Interrupter when the fuse is closed with a purposeful thrust without hesitation. Following the specified number of such closings (two or three), Uni-Rupter Interrupters will remain operable and able to carry and interrupt rated current.

## A Note on Single-Pole Switching

In single-pole switching of ungrounded-primary three-phase transformers or banks (or single-phase transformers connected line to line), circuit connections or parameters may, in some cases, produce excessive overvoltages. In particular, for the following applications above 22 kV , single-pole switching by any meansincluding a Uni-Rupter Interrupter-should be performed only under the conditions stated in italics:

- Switching unloaded or lightly loaded delta-connected or ungrounded-primary wye-wye connected three-phase transformers or banks (or line-to-line connected single-phase transformers), rated 150 kVA or less three-phase, or 50 kVA or less single-phaseor of any kVA rating when combined with unloaded cables or lines-where maximum system operating voltage exceeds 22 kV (Single-pole switching should be performed only if each phase is carrying 5\% load or more, or if the transformer or bank is temporarily grounded at the primary neutral during switching.)
- Switching loaded or unloaded ungrounded-primary wye-delta connected three-phase transformers or banks-alone or combined with unloaded cables or lines-where maximum system operating voltage exceeds 22 kV (Single-pole switching should be performed only if each phase is carrying 5\% load or more and if the lighting-load phase is always switched open first (or switched closed last); or if the transformer or bank is temporarily grounded at the primary neutral during switching.)

Table 1. Ratings and Capabilities for S\&C Power Fuses With Uni-Rupter Interrupters

| Fuse Type | Voltage, kV |  |  | Current, Amperes, RMS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nom. | Max | BIL | Max | Interr. (Sym.) | Live Switching |  |  |
|  |  |  |  |  |  | Load Splitting (Parallel or Loop Switching) | Load Dropping | Duty-Cycle FaultClosing RMS, Sym. |
| SML-20 | 14.4 | 17 | 95 | 200E or 200 K | 14000 | 200 | 200 | 14000 |
|  | 25 | 27 | 125 | 200E or 200 K | 12500 | 200 | 200 | $12500 \square$ |
| SML-4Z | 14.4 | 17 | 95 | 200E | 12500 | 200 | 200 | 12500 |
|  | 25 | 27 | 125 | 200E | 125004 | 200 | 200 | 12 500■ |
| Fault Fiter fuse | 14.4 | 17 | 95 | 200 | 14000 | 200 | 200 | 14000 |
|  | 25 | 27 | 125 | 200 | 12500 | 200 | 200 | $12500 \square$ |
| Three-time duty-cycle fault-closing capability. Two-time duty-cycle fault-closing capability. |  |  |  |  | Applicable to solidly ground-neutral systems only, with fuses connected by single-conductor, concentric-neutral type cable to a transformer or transformers. Rating is 9,400 amperes, RMS symmetrical for all other applications. |  |  |  |

## Recommended Voltage Ratings of CurrentLimiting Fuses for Use in S\&C Pad-Mounted Gear

In general, current-limiting fuses should have a maximum voltage rating equal to, but not greater than, $140 \%$ of the system line-to-line voltage because for most applications, the fuses can be exposed to full system line-to-line voltage in clearing faults. Although there may be economic or space-saving incentives for using current-limiting fuses with voltage ratings "appropriate for system line-to-ground voltage" (i.e., fuses with a voltage rating lower than line-to-line voltage but greater than or equal to maximum system line-to-ground voltage), $\mathrm{S} \& \mathrm{C}$ recommends such use only in the following applications:

- Protection of single-phase transformers serving single-phase loads
- Protection of three-phase lateral circuits fed by single-conductor shielded cable (provided each transformer on that lateral is individually fused so the current-limiting fuse serving the lateral will not be required to clear secondary faults)
- Protection of single-phase lateral circuits fed by single-conductor shielded cable where the load is line-to-ground connected


## Switching with Mini-Rupter Switches

Source-Transfer PMH Pad-Mounted Gear features Mini-Rupter Switches for three-pole live switching of three-phase circuits.

Complete ratings for Mini-Rupter Switches as applied in Source-Transfer PMH Pad-Mounted Gear are shown in Table 2. In addition to the load-dropping ratings shown, Mini-Rupter Switches are capable of interrupting transformer magnetizing currents associated with the applicable loads, as well as line-charging and cablecharging currents typical for distribution systems of these voltage ratings.

For applications on systems rated higher than 7.2 kV and involving load current with high harmonic content (such as rectifier load currents), refer to the nearest S\&C Sales Office. The two-time duty-cycle fault-closing ratings shown for Mini-Rupter Switches define the ability to close the Mini-Rupter Switch twice against a three-phase fault with asymmetrical current in at least one phase equal to the rated value, with the switch remaining operable and able to carry and interrupt rated current.

WARRANTY QUALIFICATIONS: The standard warranty contained in the seller's standard conditions of sale (as set forth in Price Sheet 150) does not apply to Source-Transfer PMH Pad-Mounted Gear where fuse units, fuse unit end-fittings, holders, refill units, or switch blades of other than S\&C manufacture are used in conjunction with S\&C SML Mountings. Nor does it apply to Source-Transfer PMH Pad-Mounted Gear where other than Fault Fiter Electronic Power Fuses, S\&C Switch Blades, or the current-limiting fuses listed in Table 1 of S\&C Information Bulletin 660-50 are used in conjunction with Fault Fiter Electronic Power Fuse Mountings and S\&C Holders designed therefor, or when current-limiting fuses are applied other than as set forth under the section "Recommended Voltage Ratings of Current-Limiting Fuses for Use in S\&C Pad-Mounted Gear".

Table 2. Ratings For S\&C Mini-Rupter Switches

| Voltage, kV |  |  | Current, Amperes |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Max | BIL | Cont. | Live Switching |  | Three-Time Duty-Cycle, Fault-Closing |  | Short-Circuit |  |
| Nom. |  |  |  | Load Splitting (Parallel or Loop Switching) | Load Dropping | Peak | RMS, Sym. | Peak Withstand, Peak | One-Second ShortTIme Withstand, RMS, Sym. |
| 14.4 | 17.5 | 95 | 600 | 600 | 600 | 36400 | 14000 | 36400 | 14000 |
| 25 | 29 | 125 | 600 | 600 | 600 | 32500 | 12500 | 32500 | 12500 |

## How to Order

STEP 1. Three-Phase Units (Pad-Mounted Gear)
(a) Obtain the catalog number of the desired unit from Table 3 on page 6.
(b) Add suffix designations (to the catalog number above) to indicate the optional features desired, selected from Table 4 on pages 7 through 9 .
(c) Obtain the catalog number of the connectors, accessories, touch-up kit components, and replacement voltage limiters from Table 14 and Table 15 on page 16, and Table 16 and Table 17 on page 17.
STEP 2. Fuse Components and Switch Blades

- For SML-20 Power Fuses: Obtain the catalog number of the end-fittings and the fuse units from Table 5 on page 10, making sure to match the voltage rating of the end fittings to the fuse units.
- For SML-4Z Power Fuses: Obtain the catalog number of the holder and refill units from Table 6 on page 10, making sure to match the voltage rating of the holder to the refill units.
- For Fault Fiter Electronic Power Fuses: Obtain the catalog number for the holders, the interrupting modules, and the control modules from Table 7 on page 10 , making sure to match the voltage rating of the holders, interrupting modules, and the control modules.
- For Switch Blades: Obtain the catalog number for the switch blades from Table 14 on page 16.

Example: The catalog number of a $14.4-\mathrm{kV}$ sourcetransfer Model PMH-9 with SML-20 Mountings and equipped with stored-energy operators, S\&C Micro-AT Source-Transfer Control, and S\&C Voltage Sensors; optional cable guides for switches and fuses; and $10-\mathrm{kV}$ metal-oxide surge arresters at all switch terminals is below.

| 5 | 6 | 2 | 5 | 2 | R | 2 | -M | 2 | M | 3 | N |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Table 3. Three-Phase Units (Including mountings with Uni-Rupter Interrupters-less fuse components(1)

| Model | Connection Diagram (2) | Fuse Type | Ratings(3) |  |  |  |  |  |  |  |  | Catalog <br> Number | Net Wt., <br> Lbs. (kg) | Page Reference for Dimensional Information |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | kV |  |  | Amperes, RMS |  |  |  | Short-Circuit |  |  |  |  |
|  |  |  | Nom. | Max | BIL | Fuse with Uni-Rupter Interrupter |  | Mini-Rupter Switch |  | Amperes, RMS, Sym. | MVA, 3-Phase, Sym. at Rated Voltage |  |  |  |
|  |  |  |  |  |  | Max | Load Dropping | Cont. | Load Dropping |  |  |  |  |  |
| PMH-6 |  | SML-20 | 14.4 | 17 | 95 | 200E■ | 200 | 600 | 600 | 14000 | 350 | 56222R2 | 2075 (941) | 18 |
|  |  |  | 25 | 27 | 125 | 200E■ | 200 | 600 | 600 | 12500 | 540 | 56223R1 | 2575 (1168) |  |
|  |  | SML-4Z | 14.4 | 17 | 95 | 200E | 200 | 600 | 600 | 12500 | 310 | 56422R2 | 2075 (941 |  |
|  |  |  | 25 | 27 | 125 | 200E | 200 | 600 | 600 | 125004 | 540 A | 56423R1 | 2575 (1168) |  |
|  |  | Fault Fiter(4) | 14.4 | 17 | 95 | 200 | 200 | 600 | 600 | 14000 | 350 | 56622R2 | 2075 (941) |  |
|  |  |  | 25 | 29 | 125 | 200 | 200 | 600 | 600 | 12500 | 540 | 56623R1 | 2575 (1168) |  |
| PMH-9 |  | SML-20 | 14.4 | 17 | 95 | 200E■ | 200 | 600 | 600 | 14000 | 350 | 56252R2 | 2150 (975) | 19 |
|  |  |  | 25 | 27 | 125 | 200E■ | 200 | 600 | 600 | 12500 | 540 | 56253R1 | 2650 (1202) |  |
|  |  | SML-4Z | 14.4 | 17 | 95 | 200E | 200 | 600 | 600 | 12500 | 310 | 56452R2 | 2150 (975) |  |
|  |  |  | 25 | 27 | 125 | 200E | 200 | 600 | 600 | 125004 | $540 \wedge$ | 56453R1 | 2650 (1202) |  |
|  |  | Fault Fiter(4) | 14.4 | 17 | 95 | 200 | 200 | 600 | 600 | 14000 | 350 | 56652R2 | 2150 (975) |  |
|  |  |  | 25 | 29 | 125 | 200 | 200 | 600 | 600 | 12500 | 540 | 56653R1 | 2650 (1202) |  |

(1) Fuse components are to be ordered separately. Refer to Table 5, Table 6, and Table 7 on page 10.
(2) Compartment numbers appear in each corner of the connection diagram.
(3) The short-circuit ratings expressed in amperes, RMS, asymmetrical are 1.6 times the symmetrical values listed. Fault-closing and/or momentary ratings of switches and bus, and fault-closing capabilities and interrupting ratings of fuses, equal or exceed these values. For complete live-switching (as well as momentary and one-second) ratings for MiniRupter Switches and complete live-switching capabilities of Uni-Rupter Interrupters as applied in S\&C Source-Transfer PMH Pad-Mounted Gear, refer to the section "Application Notes" on page 2.
(4) These models also accommodate selected current-limiting fuses in S\&C Holders; refer to Table 1 of S\&C Information Bulletin 660-50. Maximum voltage and maximum ampere ratings as listed in that table apply when current-limiting fuses are used. Consult appropriate current-limiting fuse manufacturer for complete fuse ratings.

- Catalog number suffixes "-C5" and "-C6" are required for ultimate users other than electric utilities.
- SMU-20® Fuse Units are available in ratings through 200K amperes as well as 200E amperes.
A Applicable to solidly grounded-neutral systems only, with fuses connected by single-conductor, concentric-neutral-type cable to a transformer or transformers. Rating is 9,400 amperes RMS symmetrical ( 405 MVA) for all other applications.


## Table 4. Optional Features

| Item |  | Suffix to be Added to Pad-Mounted Gear Catalog Number | Applicable to Models |
| :---: | :---: | :---: | :---: |
| Light gray outdoor finish instead of olive green |  | -A2 | All models |
| Equipment green outdoor finish (Toronto standard) instead of olive green |  | -A3 | All models |
| Seafoam green outdoor finish instead of olive green |  | -A4 | All models |
| Special color to match custom Ultradur II Outdoor Finish |  | -A5 | All models |
| Stainless steel enclosure ${ }^{(1)}$ | With olive green Ultradur II Outdoor Finish | -A10 | All models |
|  | With light gray Ultradur II Outdoor Finish | -A12 | All models |
|  | With special color Outdoor Ultradur II Outdoor Finish | -A15 | All models |
| Hexhead actuator for use in lieu of pentahead actuator on all Penta-Latch Mechanisms | For use except when catalog number suffix "-F2" is specified | -B1• | All models |
|  | For use when catalog number suffix "-F2" is also specified | -B2• | All models |
| Key interlocks to prevent opening fuse-compartment doors unless all switches are locked open(2) |  | -C50]4 | All models |
| Mechanical cable interlocks to prevent operation of switch when associated switch-compartment door is open |  | -C60 | All models |
| Mechanical antiparalleling to prevent paralleling two sources |  | -C7- | All models |
| Auxiliary switches, 4-PST, one coupled to each switch |  | -C9 | All models |
| Auxiliary switches, 4-PST, one coupled to each stored-energy operator |  | -C100 | All models |
| Remote-control receptacle for each stored-energy operator to permit open/close operations from an adjacent location using the remote-control station (not included; see Table 15 on page 16) |  | -C11 | All models |
| Mounting provisions for a fault indicator in each switch compartment <br> Note: Accommodates three-phase indicator with single-phase sensors | Without viewing window in door | -F1 | All models |
|  | With viewing window in door | -F20 | All models |
| Inner barrier panels-a panel inside the enclosure door for each compartment, secured by recessed pentahead bolt(s)(3) |  | -G7* | All models |
| Copper ground stud for each switch or fuse terminal and ground pad(4) | In fuse compartments | -H2 | All models |
|  | In switch compartments | -J2 | All models |

(1) When this optional feature is specified, the entire exterior of the enclosure is fabricated from 11-gauge Type 304 stainless steel. When specifying optional hexhead actuators, interlocks, antiparalleling, auxiliary switches, provisions for fault indicators with viewing windows in doors, or base spacer, specify the correct suffix for use in gear with a stainless steel enclosure.
(2) When specifying, please furnish name of end user, station, and location of gear.
(3) Meets Rural Utility Service's requirements for "dead-front."
(4) Diameters of copper ground studs are as follows:

Ground Stud Diameter (inches)

| Switch | $1 / 2$ |
| :--- | :--- |
| Fuse | $7 / 16$ |
| Ground Pad | $7 / 16$ |

- When specifying catalog number suffix "-B1," "-B2," "-C5" through "-C10," or "-F2" for use in gear with a stainless steel enclosure, increase the suffix designation by 10 ; for example, specify Suffix "-B11" instead of "-B1."
■ Catalog number suffixes "-C5" and "-C6" are required for end users other than electric utilities.
A Must be specified if end user is not an electric utility and/or
Canadian Standards Association listing (catalog number suffix "-Z") is specified.
- Not available if Canadian Standards Association listing (catalog number suffix "-Z") is specified.

Table 4. Optional Features-Continued

| Item |  |  | Suffix to be Added to Pad-Mounted Gear Catalog Number | Applicable to Models |
| :---: | :---: | :---: | :---: | :---: |
| Base spacer, compartmented to match enclosure, increases cable-termination height | Carbon steel | 6 inches ( 15 cm ) | -K1 | All models |
|  |  | 12 inches ( 30 cm ) | -K2 | All models |
|  |  | 18 inches (46 cm) | -K3 | All models |
|  |  | 24 inches (61 cm) | -K4 | All models |
|  | Stainless steel | 6 inches ( 15 cm ) | -K11 | All models |
|  |  | 12 inches ( 30 cm ) | -K12 | All models |
|  |  | 18 inches (46 cm) | -K13 | All models |
|  |  | 24 inches (61 cm) | -K14 | All models |
| Base spacer, noncompartmented, increases cable-termination height | Carbon steel | 6 inches ( 15 cm ) | -K7 | All models |
|  |  | 12 inches ( 30 cm ) | -K8 | All models |
|  |  | 18 inches (46 cm) | -K9 | All models |
|  |  | 24 inches (61 cm) | -K10 | All models |
|  | Stainless steel | 6 inches ( 15 cm ) | -K17 | All models |
|  |  | 12 inches ( 30 cm ) | -K18 | All models |
|  |  | 18 inches (46 cm) | -K19 | All models |
|  |  | 24 inches (61 cm) | -K20 | All models |
| International crating(5) |  |  | -L71 | All models |
| Switch-terminal adapters-for connection of two cables (through 750 kc mil) per terminal(6) <br> Note: Space limitations prevent use of these adapters where surge arresters are to be installed |  |  | -M1 | All models |
| Cable guides, one at each terminal(6)(7) | In switch compartments. For conductor sizes No. 2 through 1000 kc mil |  | -M2 | All models |
|  | In fuse compartments. For conductor sizes No. 2 through 4/0 |  | -M3 | All models |
| Polymer-housed metal-oxide surge arresters(8), base-mounted, at all switch terminals (removed for shipment) |  | 9 kV | -N6 ${ }^{\text {- }}$ | All models |
|  |  | 10 kV | -N7V | All models |
|  |  | 12 kV | -N8 | All models |
|  |  | 15 kV | -N9 | All models |
|  |  | 18 kV | -N10 $\square$ | All models |
| Mounting provisions for base-mounted surge arresters(9), at all switch terminals | 9 kV , 10 kV , or 9/10 kV |  | -P1 V | All models |
|  | 12 kV |  | -P3 | All models |
|  | 15 kV |  | -P4 | All models |
|  | 18 kV |  | -P5 $\square$ | All models |

(5) Wood products used in the packaging are either hardwood or certified by the wood supplier as being "heat treated (kiln dried) to a core temperature of $133^{\circ} \mathrm{F}\left(56^{\circ} \mathrm{C}\right)$ for a minimum of 30 minutes."
(6) When catalog number suffix "-M1" or "-M2" is specified, cable-termination options (catalog number suffixes "-U2" and "-U3") cannot be accommodated. In addition, when catalog number suffixes "-M1" and "- M 2 " are both specified, only one cable guide is provided at each switch terminal.
(7) These devices extend below the base of the unit. Provide a cable pit or specify a base spacer that provides a 12 -inch $(30-\mathrm{cm})$ or greater increase in cable-termination height.
(8) Surge arresters are base-mounted only (without isolators).
(9) These provisions accommodate Ohio Brass Type PDV (metal oxide), Eaton Cooper Power Type AZL19C (metal oxide), or General Electric Tranquell® (metal oxide) distribution-class surge arresters. Surge arresters must be base-mounted only (without isolators).
V Not applicable to $25-\mathrm{kV}$ models.
$\square$ Not applicable to $14.4-\mathrm{kV}$ models.

## Table 4. Optional Features-Continued

$\left.\begin{array}{|l|l|c|c|}\hline & & \begin{array}{c}\text { Suffix to be Added } \\ \text { to Pad-Mounted } \\ \text { Gear Catalog } \\ \text { Number }\end{array} \\ \hline \text { Applicable to } \\ \text { Models }\end{array}\right]$
(10) Additional current sensors and wiring harnesses are required for use with the switch-terminal adapter option (catalog number suffix "-M1") which permits two cables per terminal. For such applications, contact the nearest S\&C Sales Office.
(11) For applications where pad-mounted gear load feeders are connected to transformers with wye-grounded primary windings, contact the nearest S\&C Sales Office.
(12) S\&C Closed-Gap Current Sensors, catalog number TA-1758, are furnished. Each current sensor accommodates a single conductor up to $21 / 2$ inches ( 63.5 mm ) in diameter.
(13) Current sensors must not be installed on unshielded cables or on cables where the insulation is exposed but ungrounded (for example, where dielectric tape or heat-shrink tubing is used). These sensors are intended for application at ground potential and may be damaged by the voltage gradient between the cable insulation and ground.
(14) Includes a terminal block for user's connections.
(15) If a three-phase test source is not available, limited testing may be performed using an external, adjustable single-phase source.
(16) In instances where a three-phase test source is to be used, an S\&C Voltage Limiter-Three-Phase catalog number TA-1741 must be furnished for the test circuit.
(17) Requires Micro-AT communication cable catalog number TA-2320 or TA-2321. See Table 15 on page 16.
$\triangle$ These devices extend below the base of the unit. Provide a cable pit or specify a base spacer.
$\diamond$ Key interlocks (catalog number suffix "-C3" or "-C4") must be specified on gear with fuse compartment(s).
$\nabla$ Not available if mounting provisions for fault indicator with viewing window in switch compartment door(s) (catalog number suffix "-F2" or "-F12") is specified.
(1) Not available if inner barrier panels (catalog number suffix "-G7") is specified.

Table 5. SML-20 Power Fuse Components

| Fuse-Unit End Fittings |  |
| :--- | :---: |
| Item | Catalog Number |
| End-fittings (including silencer), for use with SMU-20 Fuse Units | 3097 |
| SMU-20® Fuse Units① |  |
| $\mathbf{1 4 . 4} \mathbf{~ k V ~ N o m i n a l , ~ 1 7 . 0 ~ k V ~ M a x ~}$ |  |
| For a complete listing of available ampere ratings, speeds, and catalog numbers, refer to Table 8 on page 11 and Table 9 on page 12. |  |

(1) These fuse units are usable in SM-20, SMD-20, SML-20, and SME-20 Mountings.

Table 6. SML-4Z Power Fuse Components

| Holders |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Item | Rating |  |  | Catalog Number |
|  | kV |  | Amperes, Max |  |
|  | Nom. | Max |  |  |
| Holder (including silencer), for use with SM-4 Refill Units | 14.4 | 17 | 200E | 92352 |
|  | 25 | 27 | 200E | 92353 |
| SM-4® Refill Units(1) |  |  |  |  |
| 14.4 kV Nominal, 17.0 kV Max | 25 kV Nominal, 27 kV Max |  |  |  |
| For a complete listing of available ampere ratings, speeds, and catalog numbers, refer to Table 10 on page 13. |  |  |  |  |

(1) These fuse units are usable in SM-4, SM-4Z, SML-4Z, and SME-4Z
holders.

## Table 7. Fault Fiter Electronic Power Fuse Components

| Holders |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Item | Rating |  |  | Catalog Number |
|  | kV |  | Amperes, Cont. |  |
|  | Nom. | Max |  |  |
| Holder, for use with Fault Fiter Electronic Power Fuses | 13.8 | 17 | 400 | 99412R1 |
|  | 25 | 29 | 200 | 99413R1 |
| Interrupting Modules ${ }^{1}$ |  |  |  |  |
| Item | Rating |  |  | Catalog Number |
|  | kV |  | Amperes, Cont. |  |
|  | Nom. | Max |  |  |
| Interrupting module, for use with Fault Fiter Electronic Power Fuses | 13.8 | 17 | 600 | 802600R2 |
|  | 25 | 29 | 600 | 803600R2 |
| Control Modules① |  |  |  |  |
| For a complete listing of available types, TCC curve parameters, and catalog numbers, refer to Table 11 and Table 12 on page 14, and Table 13 on page 15. |  |  |  |  |

(1) Interrupting modules and control modules rated 600 amperes continuous are also applicable for use in mountings rated 200 or 400 amperes continuous.

Table 8. SMU-20® Fuse Units (For use in SM-20 or SML-20 Mountings)(1)

| 14.4 kV Nominal, 17.0 kV Max |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| "K" Ratings |  | "E" Ratings |  |  |  |
| Rating, Amperes $\stackrel{\downarrow}{\downarrow}$ | Catalog Number | Rating, Amperes $\stackrel{\downarrow}{\downarrow}$ | Catalog Number |  |  |
| Speed $\rightarrow$ | $\begin{aligned} & \text { S\&C "K" } \\ & \text { TCC 165-2 } \end{aligned}$ | Speed $\rightarrow$ | S\&C Std. TCC 115-2 |  |  |
|  |  | 1 | 702001 |  |  |
|  |  | Speed $\longrightarrow$ | S\&C Std. TCC 153-2 | S\&C SIow TCC 119-2 | S\&C Very Slow TCC 176-2 |
| 3K | 702003 |  |  |  |  |
| 6K | 702006 | 5E | 612005 |  |  |
| 8K | 702008 | 7E | 612007 |  |  |
| 10K | 702010 | 10E | 612010 |  |  |
| 12K | 702012 | 13E | 612013 |  |  |
| 15K | 702015 | 15E | 612015 | 712015 |  |
| 20K | 702020 | 20E | 612020 | 712020 |  |
| 25K | 702025 | 25E | 612025 | 712025 |  |
| 30K | 702030 | 30E | 612030 | 712030 |  |
| 40K | 702040 | 40E | 612040 | 712040 |  |
| 50K | 702050 | 50E | 612050 | 712050 | 602050 |
| 65K | 702065 | 65E | 612065 | 712065 | 602065 |
| 80K | 702080 | 80E | 612080 | 712080 | 602080 |
| 100K | 702100 | 100E | 612100 | 712100 | 602100 |
| 140K | 702140 | 125E | 612125 | 712125 | 602125 |
| 200K | 702200 | 150E | 612150 | 712150 | 602150 |
|  |  | 175E | 612175 | 712175 | 602175 |
|  |  | 200E | 612200 | 712200 | 602200 |

[^0]Table 9. SMU-20® Fuse Units (For use in SM-20 or SML-20 Mountings)(1)

(1) These fuse units are equally suitable for use in SMD-20 outdoor distribution mountings and for use with SME-20 Fuse Unit end-fittings listed in Specification Bulletin 665-31, "S\&C Manual PME Pad-Mounted Gear" and Specification Bulletin 666-31, "S\&C Remote Supervisory PME Pad-Mounted Gear."

Table 10. SM-4® Refill Units (For use in SM-4 and SML-4 Holders)(1)

| Rating, Amperes $\downarrow$ | 14.4 kV Nominal, 17.0 kV Max (2) |  |  | 25 kV Nominal, 27 kV Max |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Catalog Number |  |  | Catalog Number |  |
| Speed $\longrightarrow$ | S\&C Std. TCC 115-4 |  |  | S\&C Std. TCC 115-4 |  |
| 1 | 122001R4 |  |  | 123001R4 |  |
| 2 | 122002R4 |  |  | 123002R4 |  |
| Speed $\longrightarrow$ | $\begin{aligned} & \text { S\&C Std. } \\ & \text { TCC 153-4 } \end{aligned}$ | S\&C Slow <br> TCC 119-4 | S\&C Coord. TCC 179-4 | $\begin{aligned} & \text { S\&C Std. } \\ & \text { TCC 153-4 } \end{aligned}$ | S\&C Slow TCC 119-4 |
| 3E | 122005R4 |  |  | 123005R4 |  |
| 5E | 122007R4 |  |  | 123007R4 |  |
| 7E | 122010R4 |  |  | 123010R4 |  |
| 10E | 122015R4 |  |  | 123015R4 |  |
| 13E | 122020R4 |  |  | 123020R4 |  |
| 15E | 122025R4 | 252025R4 |  | 123025R4 | 253025R4 |
| 20E | 122030R4 | 252030R4 |  | 123030R4 | 253030R4 |
| 25E | 122040R4 | 252040R4 |  | 123040R4 | 253040R4 |
| 30E | 122050R4 | 252050R4 |  | 123050R4 | 253050R4 |
| 40E | 122060R4 | 252060R4 |  | 123060R4 | 253060R4 |
| 50E | 122075R4 | 252075R4 |  | 123075R4 | 253075R4 |
| 65E | 122100R4 | 252100R4 |  | 123100R4 | 253100R4 |
| 80E | 122125R4 | 252125R4 |  | 123125R4 | 253125R4 |
| 100E | 122150R4 | 252150R4 |  | 123150R4 | 253150R4 |
| 125E | 122200R4 | 252200R4 |  | 123200R4 | 253200R4 |
| 150E | 122250R4 | 252250R4 |  | 123250R4 | 253250R4 |
| 175E | 122275R4 | 252275R4 |  | 123275R4 | 253275R4 |
| 200E | 122300R4 | 252300R4 |  | 123300R4 | 253300R4 |
| 210 |  |  | 382210R4 |  |  |

(1) These refill units are also suitable for use with SME-4Z Holders listed in Specification Bulletin 665-31, "S\&C Manual PME Pad-Mounted Gear" and Specification Bulletin 666-31, "S\&C Remote Supervisory PME Pad-Mounted Gear."
(2) Rated 14.4 kV nominal, for use in SM-4 Holders rated 14.4 kV when applied in listed mountings rated 13.8 kV or in discontinued mountings rated 14.4 kV .

- This S\&C Coordinating Speed refill unit should be applied where the maximum continuous load current does not exceed 200 amperes and where all fault currents below 1000 amperes will be cleared by another fuse.

Table 11. Fault Fiter Control Modules-Underground Subloop Type (TCC No. 422-7)(1)

| Continuous Current, <br> Amperes, Max(2) | TCC Curve Parameters |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Minimum Pickup, <br> Amperes, RMS | Short-Time Pickup, <br> Amperes, RMS | Short-Time <br> Delay Band | Instantaneous <br> Pickup, <br> Amperes, RMS | Catalog Number |
|  | 400 | 1300 | 2 | 3000 | $7020-C 40$ P130S2T3 |
|  | 500 | 1300 | 1 | 3000 | $7020-C 50 P 130 S 1 T 3$ |

(1) This control module is applicable for protection of $15-\mathrm{kV}$ and $25-\mathrm{kV}$ class underground distribution subloops having the following parameters: maximum available fault current-14,000 amperes, RMS, symmetrical at $15 \mathrm{kV}, 12,500$ amperes, RMS, symmetrical at 25 kV ; maximum rated transformer kVA connected for residential circuits1200 kVA single-phase, 3600 kVA three-phase at $15 \mathrm{kV}, 2400 \mathrm{kVA}$ single-phase, 7200 kVA three-phase at 25 kV ; with no capacitor banks or current-limiting fuses on the load side of the Fault Fiter fuse. If the
maximum rated transformer kVA connected is greater than the values listed above, or if the application involves protection of circuits serving industrial, commercial, or institutional loads, contact the nearest S\&C Sales Office.
(2) Control modules rated 600 amperes continuous are also applicable for use in mountings rated 200 amperes or 400 amperes continuous.

Table 12. Fault Fiter Control Modules—Inverse Curve Type (TCC No. 410-7)

| Continuous Current, <br> Amperes, Max(1) | Minimum Pickup, <br> Amperes, RMS | Catalog Number |
| :---: | :---: | :---: |
| 600 | 400 | 814040 |
|  | 500 | 814050 |
|  | 600 | 814060 |
|  | 700 | 814070 |

(1) Control modules rated 600 amperes continuous are also applicable for use in mountings rated 200 amperes or 400 amperes continuous.

Table 13. Fault Fiter Control Modules-Time-Delayed Compound-Curve Type (TCC No. 421-7)

| Continuous Current, Amperes, Max ${ }^{1}$ | TCC Curve Parameters |  |  |  | Catalog Number |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Minimum Pickup, Amperes, RMS | Short-Time Delay Band | High-Current Pickup, Amperes, RMS | High-Current Delay <br> Band <br> Time Delay, ms |  |
| 600 | 400 | 1 | 3000 | 8 | 7010-C40S1T3D8 |
|  |  |  | 6000 | 8 | 7010-C40S1T6D8 |
|  |  | 2 | 3000 | 8 | 7010-C40S2T3D8 |
|  |  |  | 6000 | 8 | 7010-C40S2T6D8 |
|  |  | 3 | 3000 | 8 | 7010-C40S3T3D8 |
|  |  |  | 6000 | 8 | 7010-C40S3T6D8 |
|  |  | 4 | 3000 | 8 | 7010-C40S4T3D8 |
|  |  |  | 6000 | 8 | 7010-C40S4T6D8 |
|  | 600 | 1 | 3000 | 8 | 7010-C60S1T3D8 |
|  |  |  | 6000 | 8 | 7010-C60S1T6D8 |
|  |  | 2 | 3000 | 8 | 7010-C60S2T3D8 |
|  |  |  | 6000 | 8 | 7010-C60S2T6D8 |
|  |  | 3 | 3000 | 8 | 7010-C60S3T3D8 |
|  |  |  | 6000 | 8 | 7010-C60S3T6D8 |
|  |  | 4 | 3000 | 8 | 7010-C60S4T3D8 |
|  |  |  | 6000 | 8 | 7010-C60S4T6D8 |
|  | 800 | 1 | 3000 | 8 | 7010-C80S1T3D8 |
|  |  |  | 6000 | 8 | 7010-C80S1T6D8 |
|  |  | 2 | 3000 | 8 | 7010-C80S2T3D8 |
|  |  |  | 6000 | 8 | 7010-C80S2T6D8 |
|  |  | 3 | 3000 | 8 | 7010-C80S3T3D8 |
|  |  |  | 6000 | 8 | 7010-C80S3T6D8 |
|  |  | 4 | 3000 | 8 | 7010-C80S4T3D8 |
|  |  |  | 6000 | 8 | 7010-C80S4T6D8 |
|  | 1100 | 1 | 3000 | 8 | 7010-C110S1T3D8 |
|  |  |  | 6000 | 8 | 7010-C110S1T6D8 |
|  |  | 2 | 3000 | 8 | 7010-C110S2T3D8 |
|  |  |  | 6000 | 8 | 7010-C110S2T6D8 |
|  |  | 3 | 3000 | 8 | 7010-C110S3T3D8 |
|  |  |  | 6000 | 8 | 7010-C110S3T6D8 |
|  |  | 4 | 3000 | 8 | 7010-C110S4T3D8 |
|  |  |  | 6000 | 8 | 7010-C110S4T6D8 |

[^1]Table 14. Switch Blades(1)

| Item | Rating |  |  | Catalog Number |
| :---: | :---: | :---: | :---: | :---: |
|  | kV |  | Amperes, Cont. |  |
|  | Nom. | Max |  |  |
| Switch blade, for use in lieu of SMU-20 Fuse Unit in SML-20 Mounting | 14.4 | 17 | 200 | 5432 |
|  | 25 | 27 | 200 | 5433 |
| Switch blade, for use in lieu of SML-4Z Holder in SML-4 Mounting | 14.4 | 17 | 200 | 5442 |
|  | 25 | 27 | 200 | 5443 |
| Switch blade, for use in lieu of Fault Fiter fuse holder in Fault Fiter fuse mounting | 14.4 | 17 | 400 | 3222 |
|  | 25 | 29 | 200 | 3223R1 |

(1) When switch blades are used in lieu of fuses, the Uni-Rupter Interrupter associated with these switches can carry and interrupt load currents up to and including the emergency peak-load capabilities of the SML power fuses, or up to 400 amperes at 14.4 kV and 200 amperes at 25 kV for Fault Fiter Electronic Power Fuses. Furthermore, the
switches with Uni-Rupter Interrupters have fault-closing ratings equal to those of S\&C Power Fuses with Uni-Rupter Interrupters (refer to the section "Application Notes" on page 2). The momentary and one-second ratings of the switches equal the short-circuit ratings of the pad-mounted gear.

Table 15. Accessories

| Item |  | Catalog Number |
| :--- | :--- | :--- | :--- |
| S\&C test accessory, permits preliminary checkout of source-transfer control using single-phase 120-volt ac source (before <br> medium-voltage connections are made to the pad-mounted gear) to expedite full service once medium voltage is available. <br> The test accessory isolates the S\&C Voltage Sensor during testing and eliminates the possibility of backfeed during test <br> procedures |  | TA-2669- |

(1) Required with source-transfer PMH Pad-Mounted Gear furnished with optional test panel feature (catalog number suffix "-Y5"), if the source-transfer control is to be tested with the switchgear de-energized.
(2) For end users other than electric utilities, also specify a shotgun clamp stick of the appropriate length.

- Catalog number TA-2669 is for use with Micro-AT controls only. Contact the S\&C Sales Office for test accessories compatible with Type AT controls.

Table 16. Touch-Up Kit Components—Aerosol Coatings in 12-Ounce Cans

| Item | Catalog Number |
| :--- | :---: |
| S\&C light gray outdoor finish | $9999-080$ |
| S\&C olive green (Munsell 7GY3.29/1.5) outdoor finish | $9999-058$ |
| S\&C red-oxide primer | $9999-061$ |

## Table 17. Replacement Voltage Limiters(1)

| Item | Catalog Number |
| :--- | :---: |
| Replacement voltage-limiter kit-for pad-mounted gear applications where the existing voltage limiters are installed in the <br> low-voltage compartment. Consists of one catalog number TA-2003 Voltage Limiter-Three Phase, two jumpers, and an <br> installation instruction drawing | TA-2007-1 |
| Replacement voltage-limiter kit-for pad-mounted gear applications where the existing voltage limiters are installed in the <br> medium-voltage compartments. Consists of two catalog number TA-2003 Voltage Limiters-Three-Phase, two mounting <br> brackets with hardware, two wiring harnesses, and an installation instruction drawing | TA-2007-2 |

(1) For use with S\&C Indoor Voltage Sensors having 20-Volt-ampere or 27.5-Volt-ampere output rating.

Table 18. Connector

| Illustration | Description | Accommodating Connector | Catalog Number |
| :---: | :---: | :---: | :---: |
|  | Bronze body, tin plated, two galvanized steel <br> bolts, two Belleville washers | No. 2 solid $\left(33.6 \mathrm{~mm}^{2}\right)$ through 500 kc mil <br> $\left(335 \mathrm{~mm}^{2}\right)$ stranded copper or aluminum |  |
|  |  |  | 4745 |

## Model PMH-6

Dimensions in inches (mm)


| kV, Nominal | $\mathrm{A}_{1}$ - | $\mathrm{A}_{2}$ | B | C | D | E | F | G | H | $J$ | K | L | $M_{1}$ | $M_{2}$ | R | S | T | W |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 14.4 | $\begin{gathered} 97 / 8 \\ (251) \end{gathered}$ | $\begin{gathered} 7 \\ (178) \end{gathered}$ | $\begin{gathered} 51 / 8 \\ (130) \end{gathered}$ | $\begin{gathered} 501 / 2 \\ (1283) \end{gathered}$ | $\begin{gathered} \hline 63^{3} / 4 \\ (1619) \end{gathered}$ | $\begin{gathered} 12^{7 / 8} \\ (327) \end{gathered}$ | $\begin{gathered} \hline 603 / 4 \\ (1543) \end{gathered}$ | $\begin{gathered} 6 \\ (152) \end{gathered}$ | $\begin{gathered} \hline 44 \\ (1118) \end{gathered}$ | $\begin{gathered} 43 / 4 \\ (121) \end{gathered}$ | $\begin{gathered} 93 / 4 \\ (248) \end{gathered}$ | $\begin{gathered} 143 / 4 \\ (375) \end{gathered}$ | $\begin{aligned} & 281 / 2 \\ & (724) \end{aligned}$ | $\begin{gathered} 345 / 8 \\ (879) \end{gathered}$ | $\begin{gathered} \hline 451 / 4 \\ (1149) \end{gathered}$ | $\begin{gathered} 73 / 4 \\ (197) \end{gathered}$ | $\begin{aligned} & 21 / 4 \\ & (57) \end{aligned}$ | $\begin{gathered} 67 \\ (1702) \end{gathered}$ |
| 25 | $\begin{gathered} 141 / 8 \\ (359) \end{gathered}$ | $\begin{gathered} 111 / 4 \\ (286) \end{gathered}$ | $\begin{gathered} 71 / 8 \\ (181) \\ \hline \end{gathered}$ | $\begin{gathered} 621 / 2 \\ (1588) \end{gathered}$ | $\begin{gathered} 793 / 4 \\ (2026) \\ \hline \end{gathered}$ | $\begin{array}{r} 133 / 4 \\ (349) \\ \hline \end{array}$ | $\begin{gathered} 763 / 4 \\ (1949) \end{gathered}$ | $\begin{gathered} 71 / 2 \\ (191) \\ \hline \end{gathered}$ | $\begin{gathered} 55 \\ (1397) \end{gathered}$ | $\begin{gathered} 6 \\ (152) \end{gathered}$ | $\begin{array}{r} 12^{1 / 2} 2 \\ (318) \\ \hline \end{array}$ | $\begin{aligned} & 161 / 2 \\ & (419) \end{aligned}$ | $\begin{aligned} & 321 / 8 \\ & (816) \end{aligned}$ | $\begin{gathered} 42^{1 / 8} \\ (1070) \end{gathered}$ | $\begin{gathered} 52^{112} 2 \\ (1334) \end{gathered}$ | $\begin{gathered} 12^{1 / 8} \\ (308) \\ \hline \end{gathered}$ | $\begin{aligned} & 21 / 4 \\ & (57) \end{aligned}$ | $\begin{gathered} 82 \\ (2083) \end{gathered}$ |

- When catalog number suffix "-M1", "-U2," or "-U3" is specified, cable-
termination locations will be slightly affected. Consult the nearest S\&C
Sales Office for details.


## Model PMH-9

## Dimensions in inches (mm)



ANCHOR BOLT PLAN

| kV, Nominal | $\mathrm{A}_{1}$ - | $\mathrm{A}_{2}$ | B | C | D | E | F | G | H | $J$ | K | L | M ${ }_{1}$ | $M_{2}$ | R | S | T | W |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 14.4 | $\begin{gathered} 97 / 8 \\ (251) \end{gathered}$ | $\begin{gathered} 7 \\ (178) \\ \hline \end{gathered}$ | $\begin{gathered} 51 / 8 \\ (130) \end{gathered}$ | $\begin{gathered} \hline 501 / 2 \\ (1283) \\ \hline \end{gathered}$ | $\begin{gathered} 633 / 4 \\ (1619) \end{gathered}$ | $\begin{gathered} 12^{7 / 8} \\ (327) \end{gathered}$ | $\begin{array}{\|c\|} \hline 603 / 4 \\ (1543) \\ \hline \end{array}$ | $\begin{gathered} 6 \\ (152) \end{gathered}$ | $\begin{gathered} 44 \\ (1118) \end{gathered}$ | $\begin{gathered} 43 / 4 \\ (121) \end{gathered}$ | $\begin{gathered} 93 / 4 \\ (248) \end{gathered}$ | $\begin{gathered} 143 / 4 \\ (375) \\ \hline \end{gathered}$ | $\begin{gathered} 281 / 2 \\ (724) \end{gathered}$ | $\begin{gathered} 345 / 8 \\ (879) \end{gathered}$ | $\begin{gathered} 451 / 4 \\ (1149) \end{gathered}$ | $\begin{gathered} 73 / 4 \\ (197) \end{gathered}$ | 2 $1 / 4$ <br> (57) | $\begin{gathered} 67 \\ (1702) \end{gathered}$ |
| 25 | $\begin{gathered} 141 / 8 \\ (359) \end{gathered}$ | $\begin{gathered} 111 / 4 \\ (286) \end{gathered}$ | $\begin{gathered} 71 / 8 \\ (181) \end{gathered}$ | $\begin{gathered} 62^{1 ⁄ 2} 2 \\ (1588) \end{gathered}$ | $\begin{gathered} \hline 793 / 4 \\ (2026) \end{gathered}$ | $\begin{gathered} 133 / 4 \\ (349) \end{gathered}$ | $\begin{gathered} \hline 763 / 4 \\ (1949) \end{gathered}$ | $\begin{gathered} 71 / 2 \\ (191) \end{gathered}$ | $\begin{gathered} 55 \\ (1397) \end{gathered}$ | $\begin{gathered} 6 \\ (152) \end{gathered}$ | $\begin{gathered} 12^{1 / 2} 2 \\ (318) \end{gathered}$ | $\begin{gathered} 161 / 2 \\ (419) \end{gathered}$ | $\begin{gathered} 321 / 8 \\ (816) \end{gathered}$ | $\begin{array}{\|c} \hline 42^{1 / 2} \\ (1070) \end{array}$ | $\begin{gathered} 52^{1 / 2} \\ (1334) \end{gathered}$ | $\begin{gathered} 12^{1 / 8} \\ (308) \\ \hline \end{gathered}$ | $\begin{aligned} & 2^{1 / 4} 4 \\ & (57) \end{aligned}$ | $\begin{gathered} 82 \\ (2083) \end{gathered}$ |

- When catalog number suffix "-M1," "-U2," or "-U3" is specified, cabletermination locations will be slightly affected. Consult the nearest S\&C Sales Office for details.


[^0]:    (1) These fuse units are equally suitable for use in SMD-20 outdoor distribution mountings and for use with SME-20 Fuse Unit end-fittings listed in Specification Bulletin 665-31, "S\&C Manual PME Pad-Mounted Gear" and Specification Bulletin 666-31, "S\&C Remote Supervisory PME Pad-Mounted Gear."

[^1]:    (1) Control modules rated 600 amperes continuous are also applicable for use in mountings rated 200 amperes or 400 amperes continuous.

