

STATES[®]
TERMINAL BLOCKS & TEST SWITCHES

**A name
you know,
quality
you can
count on.**

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SHIPPING

Prices F.O.B. origin
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TERMS OF SALE

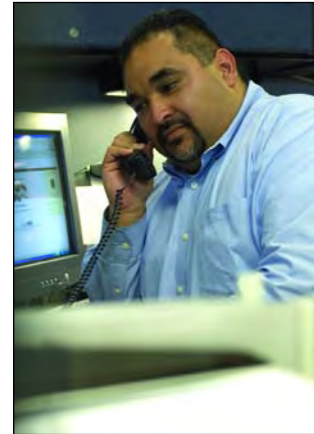
Terms: Net 30 days
with credit approval: VISA,
MasterCard, American Express
and Discover accepted.
Minimum Order: \$100.00 U.S.

WARRANTY

STATES products are
guaranteed against material
and workmanship defects for a
period of one year from date
of shipment. Details of this
warranty are available upon
request.

PRODUCT CHANGES

Product information,
photographs and illustrations in
this catalog were current when
it was approved for printing.
In a continuing effort to offer
innovative products, Megger
reserves the right to change
specifications, designs and
models without notice.



For applications assistance,
prices and ordering information
for STATES Terminal Blocks and
Test Switches, please contact
your area Megger office.

Megger[®]

Megger is one of the world's oldest and largest providers of test equipment and measuring instruments for electric power applications.

At operations in North America and the United Kingdom, Megger designs and manufactures more than 400 products under the brand names Megger[®] and STATES[®].

Widest Range of Products

Among our wide range of product lines are battery, cable, circuit breaker, ground-resistance, high-potential, insulation-resistance, power factor, recloser, relay, transformer and watt-hour meter test equipment.

From test switches and terminal blocks to computerized relay test systems, Megger offers you the most choices for innovative, problem solving test and measuring equipment.

Sales and Service Worldwide

With sales offices and direct representation in more than 100 countries, Megger is your convenient, single source for electrical test equipment and measuring instruments.

Commitment to Excellence

Products from Megger meet the highest standards for quality, reliability and safety. It is our goal to ensure every order is delivered on time and performs to your expectations. We pledge to respond to your confidence in us by striving to achieve your complete satisfaction.

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STATES® is a division of Megger®. Megger also designs, manufactures, markets and supports a wide variety of electrical test and measuring instruments for power applications.

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Please refer to our website for the most up-to-date catalog information.
www.statesproducts.com

STATES

STATES TERMINAL BLOCKS AND TEST SWITCHES

...for Power System APPLICATIONS

Overview

STATES Terminal Blocks and Test Switches are designed and manufactured by Megger to facilitate the calibration, disconnecting, troubleshooting, checkout and testing of meters, relays, instruments, transducers and controls systems.

Test technicians and engineers have long depended on these high-quality STATES products to provide easy access to wiring on panelboards and switchboards. For increased safety, durability, ruggedness and reliability, they incorporate many features in material composition and design construction.

STATES Terminal Blocks and Test Switches eliminate wiring reconnection errors and save operator time. Because they easily make, break or rearrange the connections of an electric circuit without disturbing permanent wiring, work can be performed on energized panels.

Terminal Blocks

STATES Types NT and ZWM Terminal Blocks are widely acclaimed for their unique sliding-link disconnect feature which permits the insertion of an indicating instrument or artificial load into a circuit without disturbing permanent wiring. STATES Terminal Blocks are recognized by Underwriters Laboratories Inc.

Test Switches

The complete line of STATES Test Switches includes front-connected, back-connected, semiflush-mounted and flush-mounted versions. The switches provide all the features you need for applications that involve potential elements, current elements and make-before-break short-circuiting elements for CT circuits.

Customer Service

Megger offers worldwide sales and customer service through offices in more than 100 countries. Our staff is dedicated to supporting all your needs for terminal blocks and test switches by providing high-quality products at competitive prices.

To assist you in ordering STATES products, this catalog shows a wide variety of typical arrangements for test switches and terminal blocks and their corresponding catalog numbers. Individual elements for customized blocks or switches also are shown. We'll be happy to help you select the equipment that meets your specifications.

Certified to ISO 9001

All our facilities are certified to the full operational requirements of the ISO 9001 quality standard.

Proprietary Information Disclaimer

The devices depicted and described hereon embodies a proprietary design owned by Megger. All design, manufacturing, reproduction, sales, and patent rights regarding these devices or drawings are reserved, except where explicit right is granted in writing by Megger.

STATES

Type NT and Type ZWM Terminal Blocks



Side view of closed Sliding Link Block

Sliding Link Block with white marker strip

- **Unit-pole construction**
- **Sliding link to permit testing without disturbing wiring**
- **High barriers that prevent shorting between poles**
- **Class 1E qualified per IEEE**

RECOGNIZED BY UL AND CUL

Underwriters Laboratories Inc. recognizes STATES Type NT and Type ZWM Terminal Blocks under its component program, File No. E147470, with a rating of 600 volts, 30 amperes.

CLASS 1E QUALIFIED PER IEEE STANDARD 323-1974

Type ZWM Sliding Link Terminal Blocks have successfully completed a generic test program that meets the requirements of most nuclear power plants for Class 1E applications outside of containment. Extensive, accelerated-life testing was conducted by an outside, independent firm and utilized thermal aging, mechanical aging, environmental extremes, radiation exposure and seismic simulation. The service conditions and parameters of the test program included: 41-year life at 131° F (55° C), 600 operations, 95% humidity, 2.2×10^8 rads of radiation and 10g maximum acceleration seismic level.

DESCRIPTION

Featuring a unique “sliding link” disconnect, STATES Type NT and Type ZWM Terminal Blocks function as inexpensive switches to simplify system checkout. Easily and quickly operated, the sliding link provides a means of opening the circuit without removing any wiring. Utilizing unit-pole construction, these terminal blocks are available with up to 73 poles on a single base.

APPLICATIONS

The popular STATES Types NT and Type ZWM Terminal Blocks are widely acclaimed for their unique disconnect feature. Designed to provide a junction between switchboard wiring and cable wires, it replaces the standard stud and straight-strap type of connection with a sliding-link connection.

The sliding link provides the means for inserting an indicating instrument or artificial load into the circuit without removing any wiring. These terminal blocks greatly simplify system checkout by the test technician and eliminate the possibility of error in reconnection.

FEATURES AND BENEFITS

- **Sliding link:** Link quickly opens and closes the circuit to permit testing without disturbing any wiring.
- **Unit-pole construction:** Up to 73 poles available
- **Space-saving:** Only 0.6 of an inch (15 mm) center-to-center is used between poles.
- **Operator safety:** The high barrier between poles increases circuit isolation.
- **UL listed:** Terminal blocks are rated for 600 volts, 30 amperes (50 amperes for 250 Series Sliding Link only).
- **Fuse holders:** 250- or 600-volt fuse holders are available if circuits must be fused.
- **Marker strips or tags:** Strips or tags are available to make coding of each circuit fast and easy.
- **Connections:** Blocks are available in front-connected styles.
- **Contacts:** Heavy, nickel-plated, brass contacts are used.
- **Covers:** Black or Clear covers are available.

ORDERING INFORMATION

ORDERING INFORMATION

STATES Terminal Blocks are available in a wide variety of configurations and with many optional features to suit your specific applications and requirements.

All blocks are specified by a part number consisting of five digits, which may be preceded by any of several letters and/or followed by a suffix to designate desired features. Use the following codes and the ordering information on this page to determine the part number for this block and features you desire.

Prefixes

- B:** Black cover
- C:** Clear cover
- E:** Engraved
- H:** Hinged cover
- M:** White marker strip with black center (for engraving)
- K:** Black marker strip with white center (for engraving)
- SM:** Individual white marker tag
- FM:** Individual red marker tag
- ZWM:** Self-extinguishing barriers and white marker strip; Everdur bronze clamping screws
- ZWSM:** Self-extinguishing barriers and white marker tags; Everdur bronze clamping screws
- EFM:** Engraved red marker tag

First 3 Digits

- 250:** Sliding link, with stainless steel linking screw
- 251:** Straight strap
- 258:** please use 250 series

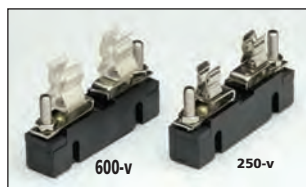
Fourth Digit and Fifth Digit — Number of Poles in Block

Example: M-25012: Designates a 12-pole block with sliding links and a white marker strip. In this case, M = white marker strip
250 = sliding link, with stainless steel linking screws
12 = 12 poles

Example: BSM-25106: Designates a 6-pole block with a black cover and white marker tags. In this case, B = black cover, knobbed
SM = individual white marker tags
251 = straight strap
06 = 6 poles

Terminal Blocks with Fuse Protection

Should fused protection be required, specify fuse holders by Part No. 6996 for 250-volt fuse holders or Part No. 6995 for 600-volt fuse holders (fuses not included).



600- and 250-volt fuse holders

Also, counting left to right, specify at which position on the terminal block these fuse holders are to be installed.

Fuse Size

Part No. 6996 accepts standard cartridge fuses rated 250 VAC 30 AMP. Fuse dimensions must be 1/4" diameter and 1 1/4" in length.

Part No. 6995 accepts standard cartridge fuses rated 600 VAC 30 AMP. Fuse dimensions must be 3/8" diameter and 1 1/2" in length.

Straight Strap

When the disconnect feature of the sliding link is not required, the blocks can be provided with a straight-strap connection. These blocks have the same construction and dimensions as the sliding link blocks. Poles with straight-strap connection can be combined on the same block with poles having sliding links or fuse holders.



Straight strap block with white marker strip

Shorting-type Terminal Block

Current shorting-type terminal blocks are available in one section, with up to 24 poles. Shorting pins are provided at each pole. There is one blank pole added to each block. The blank pole has provision for two shorting pins to be stored if not in use. For panel layout, use the dimensions of the regular 10-pole shorting block with marker strip; the 11-pole dimensions would be used to lay out mounting holes. The 25100-G series is available with either marker strip or marker tags. Use the hinged cover when the marker strip is used; otherwise, use the regular flat cover.



Shorting-type block with white marker strip

Suffix

G: Current transformer shorting type block, use with 251 straight strap series only.

Note

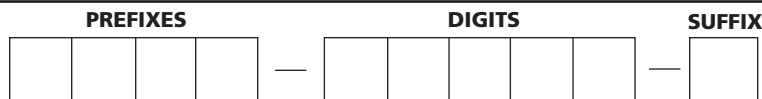
In special applications where flame-retardant properties are desired, STATES Terminal Blocks can be provided with self-extinguishing barriers and marker strips. Use ZWM prefix.

Accessories

XNT126 - Brass nickel-plated hex nuts 10-32 thread x 3/16" across flats. Part No. XNT126-100

TBT96 - Individual red marker tags. Part No. TBT96-100

TBT69 - Individual white marker tags. Part No. TBT69-100 (Above parts are packaged 100 pieces per bag).

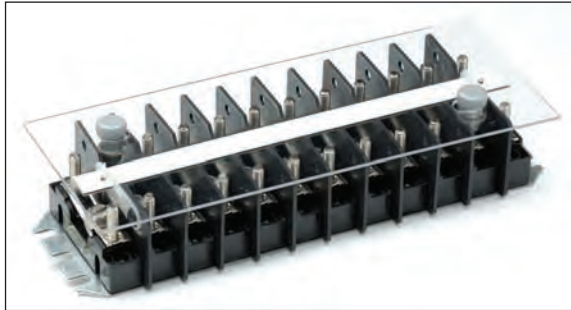


STATES

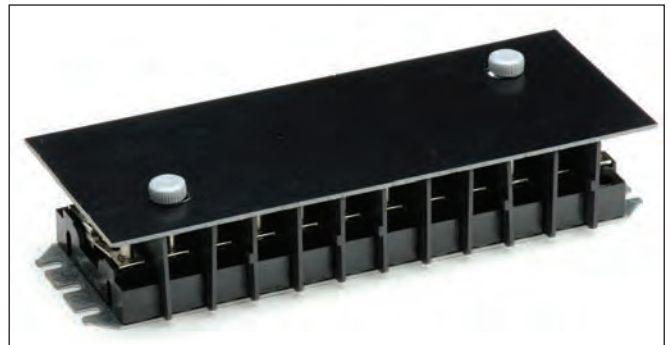
COVERS

Covers, clear or black, are available in either knobbed or hinged.

The cover is a flat, phenolic-laminated sheet that covers the entire face of the block. Covers are fastened to studs on the end poles of the block by two captive, insulated knobs.



NT sliding link block with knobbed clear cover

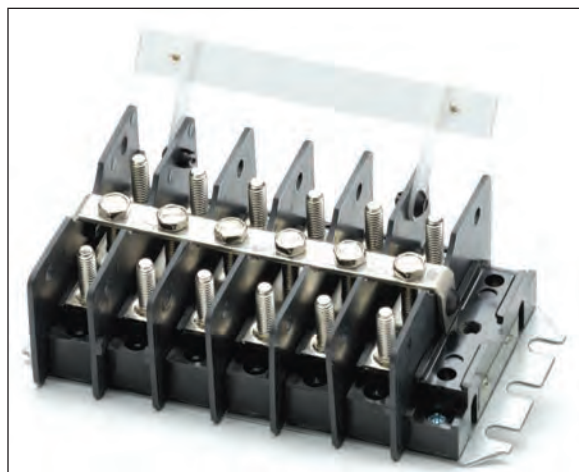


NT sliding link block with knobbed black cover

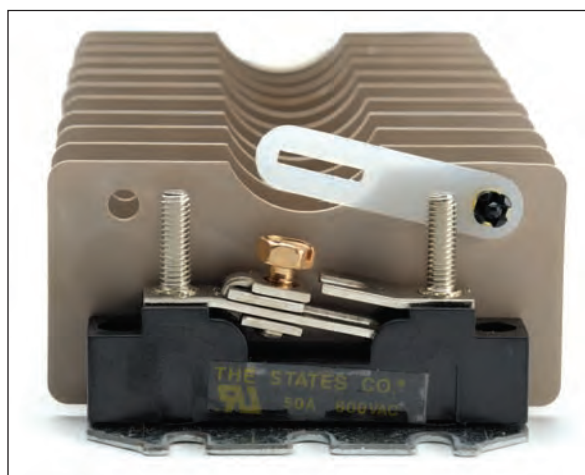
FRONT-CONNECTED BLOCKS



ZWM Sliding Link Terminal Block with first two links in 'open' position.



Shorting Type Block with white marker strip.

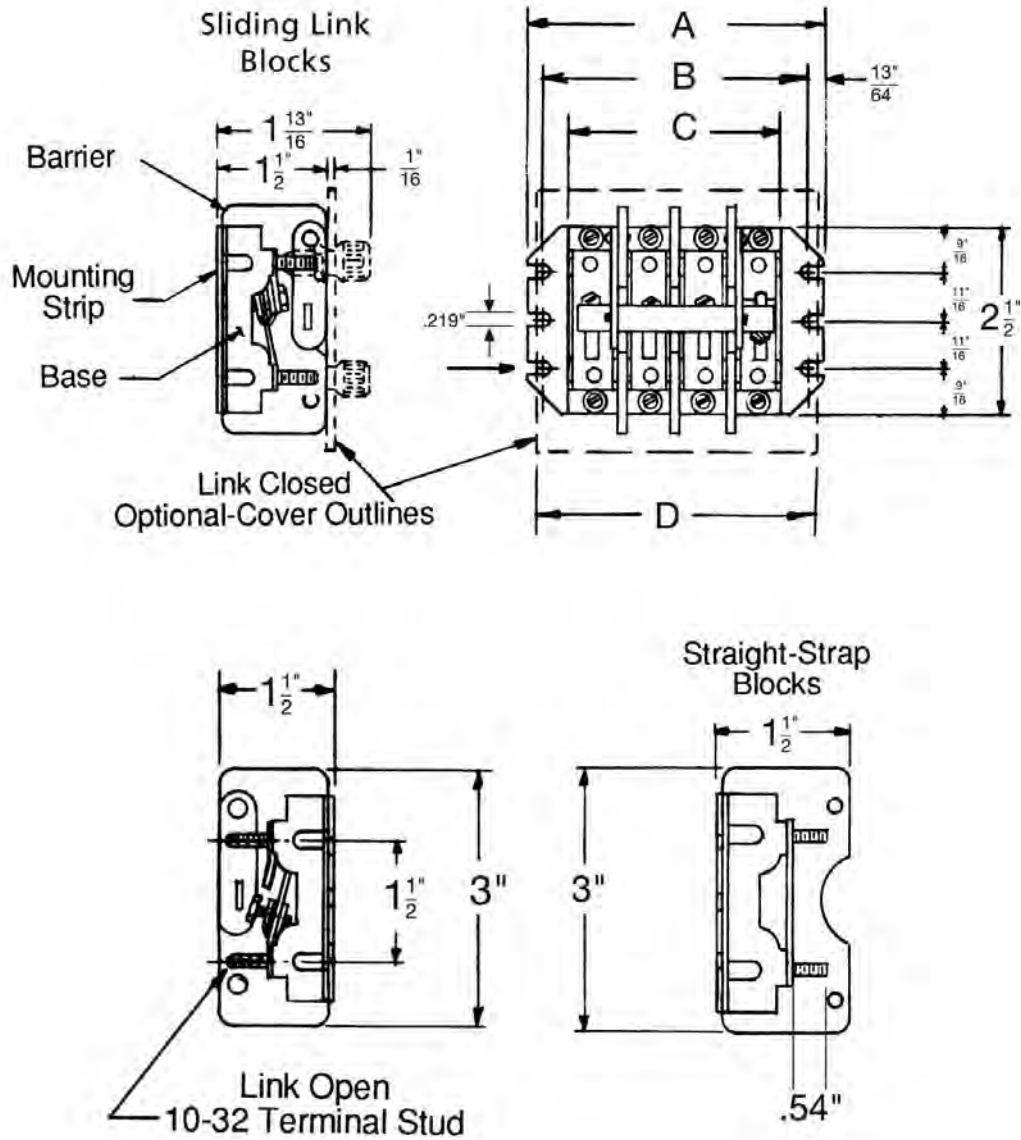


Side view of 'open' link.



White marker strip showing examples of custom engraving styles.

DIMENSIONS (IN INCHES)



Nut/Bolt Torque Specifications

Stud Nuts	25 inch lbs
Link Bolt	16 inch lbs

Notes:

- Both the sliding link and straight strap types have same dimensions.
- To provide extra mounting support, at 26 poles, one blank space is added; at 51 poles, two blank spaces are added.
- Shorting Blocks, 1 extra pole.

See dimensions on page 7.

Megger

TITLE Dimensions of the NT, ZWM and straight strap type terminal blocks.

DWG. NO. D-16191

REV. 3

The device depicted and described hereon embodies proprietary design owned by Megger. All design, manufacturing, reproduction, sales and patent rights regarding this device or drawing are reserved, except where explicit right is granted in writing.

Dimensions for drawings on page 6.

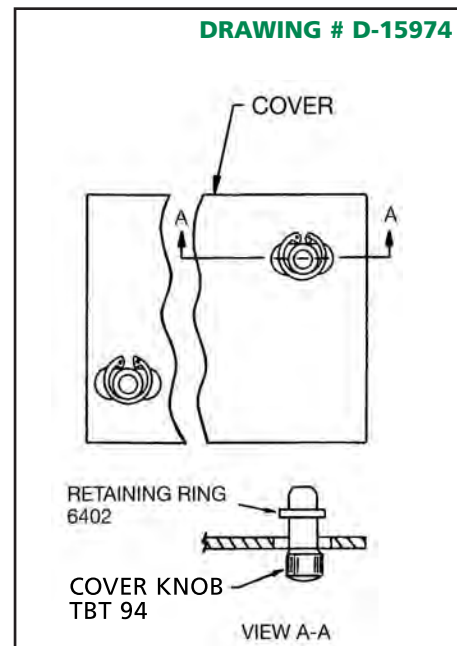
NUMBER OF POLES	A	B	C	COVER LENGTH D
1	1 3/8	3 1/2	3 5/8	
2	2	1 19/32	1 11/64	1 3/4
3	2 5/8	2 7/32	1 51/64	2 3/8
4	3 1/4	2 27/32	2 27/64	3
5	3 7/8	3 15/32	3 3/64	3 5/8
6	4 1/2	4 7/32	3 43/64	4 1/4
7	5 1/8	4 23/32	4 19/64	4 7/8
8	5 3/4	5 11/32	4 59/64	5 1/2
9	6 3/8	5 1/32	5 35/64	6 1/8
10	7	6 15/32	6 11/64	6 3/4
11	7 5/8	7 7/32	6 51/64	7 3/8
12	8 1/4	7 27/32	7 27/64	8
13	8 7/8	8 17/32	8 3/64	8 5/8
14	9 1/2	9 3/32	8 43/64	9 1/4
15	10 1/8	9 23/32	9 19/64	9 7/8
16	10 3/4	10 11/32	9 59/64	10 1/2
17	11 3/8	10 31/32	10 35/64	11 1/8
18	12	11 17/32	11 11/64	11 3/4
19	12 5/8	12 7/32	11 51/64	12 3/8
20	13 1/4	12 27/32	12 27/64	13
21	13 7/8	13 17/32	13 3/64	13 5/8
22	14 1/2	14 3/32	13 43/64	14 1/4
23	15 1/8	14 23/32	14 19/64	14 7/8
24	15 3/4	15 11/32	14 59/64	15 1/2
25	16 3/8	15 1/32	15 35/64	16 1/8
26	17 5/8	17 7/32	16 51/64	
27	18 1/4	17 27/32	17 27/64	
28	18 7/8	18 17/32	18 3/64	
29	19 1/2	19 3/32	18 43/64	
30	20 1/8	19 23/32	19 19/64	
31	20 3/4	20 11/32	19 59/64	
32	21 3/8	20 31/32	20 35/64	
33	22	21 17/32	21 11/64	
34	22 5/8	22 7/32	21 51/64	
35	23 1/4	22 27/32	22 27/64	
36	23 7/8	23 17/32	23 3/64	
37	24 1/2	24 3/32	23 43/64	
38	25 1/8	24 23/32	24 19/64	
39	25 3/4	25 11/32	24 59/64	
40	26 3/8	25 1/32	25 35/64	
41	27	26 15/32	26 11/64	
42	27 5/8	27 7/32	26 51/64	
43	28 1/4	27 27/32	27 27/64	
44	28 7/8	28 17/32	28 3/64	
45	29 1/2	29 3/32	28 43/64	
46	30 1/8	29 23/32	29 19/64	
47	30 3/4	30 11/32	29 59/64	
48	31 3/8	30 31/32	30 35/64	
49	32	31 17/32	31 11/64	
50	32 5/8	32 7/32	31 51/64	
51	33 1/8	33 1/32	33 35/64	
52	34 1/2	34 3/32	33 43/64	

Dimensions in inches

See Jumper Strip on page 69.

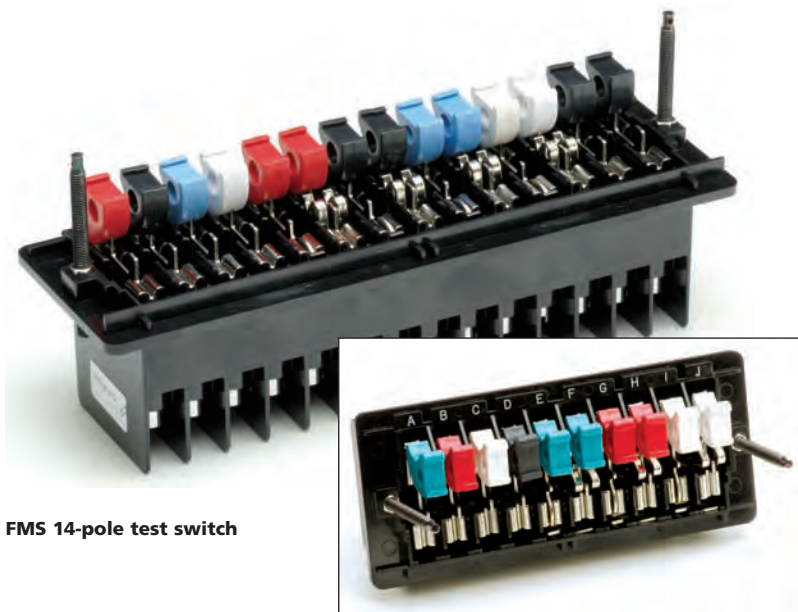
No. of Poles	Black Cover	Clear Cover
02	3943-2	51459-2
03	3943-3	51459-3
04	3943-4	51459-4
05	3943-5	51459-5
06	3943-6	51459-6
07	3943-7	51459-7
08	3943-8	51459-8
09	3943-9	51459-9
10	3943-10	51459-10
11	3943-11	51459-11
12	3943-12	51459-12
13	3943-13	51459-13
14	3943-14	51459-14
15	3943-15	51459-15
16	3943-16	51459-16
17	3943-17	51459-17
18	3943-18	51459-18
19	3943-19	51459-19
20	3943-20	51459-20
21	3943-21	51459-21
22	3943-22	51459-22
23	3943-23	51459-24
24	3943-24	51459-24
25	3943-25	51459-25

Note: Cover will not fit well with certain fuse holders.





STATES

Type FMS Semiflush-Mounted Test Switches



FMS 14-pole test switch

FMS 10-pole test switch

- Select from 1-10, 1-14, 1-30, or any combination of Test Switches
- Safe, durable, rugged and reliable
- Choice of black or clear covers with provision to apply seal
- UL Listed 
- CSA Certified 

DESCRIPTION

The STATES Type FMS Semiflush-Mounted Test Switches provide a compact, versatile means to disconnect, test or measure devices and circuits in panelboards such as relays, metering, control circuits and other instrumentation applications. The FMS Switch works without instrument transformers being disconnected from secondary wiring.

The FMS Switch is the result of more than 60 years of experience in the design and manufacture of test switches. Many features are incorporated for safety, ease of use, durability and security.

FEATURES AND BENEFITS

- **No downtime:** Measurements of voltage and current may be made without taking the device out of service.
- **Easy access:** All measurements and tests are performed at the front of the panelboard. This feature saves time and provides better safety and system security.
- **Secure:** The FMS 10, 14 & 30 pole deeper, wider, clear covers come with a “knockout” tab for a safety lock (not included), that can be used with our optional FMS Lockout Kit. Part No. FMSLOCK-1. The cover screws, which come standard, have a hole in the tip to insert the wire of a meter-type lead seal (not included). This will help deter unauthorized access to the switch.

- **Use standard plugs:** The test-clip feature allows connections using standard spring-clip test leads. Test connections also can be made using STATES Dual Circuit Plug (Part No. 15000) or Westinghouse standard Test Plugs.
- **Safe to use:** Current switches automatically short-circuit current transformer secondaries when the switches are opened for test-plug insertion.
- **Choice of operation:** To provide testing flexibility, the FMS Switches can be operated independently, or two or more can be connected using the yoking bar to perform specific testing requirements.
- **Cost-saving advantage:** The FMS 10-pole Test Switch can be used as a direct replacement for the ABB (Westinghouse) Type FT-1 Test Switch. You do not have to cut new holes or make any modifications.
- **Optional clear cover:** See at a glance if a switch blade is open or closed with the optional deeper, wider, clear cover. A deep ridge prevents the blade from opening or closing.

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

STATES



Standard black and optional clear 10-pole covers



Deep ridge prevents a switch blade from opening or closing

Optional clear covers for STATES Type FMS Test Switch

Cover completely seals test switch

SPECIFICATIONS

The FMS Switch base and cover is made of molded, flame-retardant ABS plastic, which provides a tough, flexible, insulated enclosure. Individual test switches are a knife-blade type and are separated by insulating barriers that are part of the molded base. Molded switch handles have a dovetail indentation to accept marker cards for circuit identification. The individual FMS Switch bases contain 10 or 14 positions and offer 1-10, 1-14 or 1-30 (consisting of 3 10-pole bases) combinations.

The current switches have the necessary make-before-break short-circuit feature. A hole is provided in each handle to allow insertion of a yoke bar to gang switch operations together.

Two types of connections are offered on the back of the FMS Test Switch. Screw terminals are standard. Stud connections are optional. To specify stud connections, refer to **Ordering Information**. Either connection is separated by molded insulating barriers. The width between barriers is sufficiently wide enough for a standard spin-tight tool to be inserted for installation or removal of wire.

Covers

The FMS Test Switch comes standard with a black cover and the option of a clear cover. Both cover types completely seal the switches. Clear cover kits are also available to replace existing black covers, refer to **Ordering Information**.

Color-coded handles

Unless otherwise specified, potential elements have red handles, and current elements have black handles. Additionally, the following other handle colors are available at extra cost: blue, orange, white, yellow, green and brown.

Identification card holder

Each handle is slotted for insertion of an identification card for marking or coding. Cards are available under Part No. 680001.

Recognized by UL & CSA

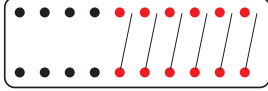
STATES Type FMS Test Switch is recognized by Underwriters Laboratories Inc., UL File E225664, with a rating of 600 volts, 30 amps, and is certified by CSA, Certificate 1281976. For additional information, go to www.ul.com.

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

STATES

FRONT VIEW 6-POLE

26-26-26-26-1-1-1-1-1-1



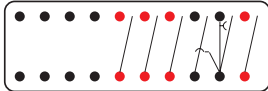
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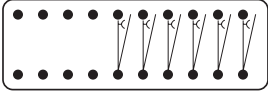
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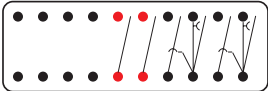
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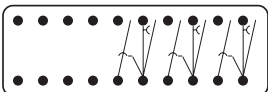
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26-26-26-26-1-1-10-10



FMS-06E

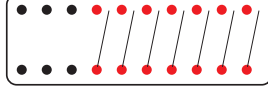
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FMS-06F

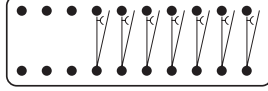
7-POLE

26-26-26-1-1-1-1-1-1-1



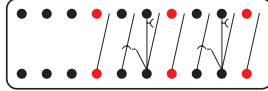
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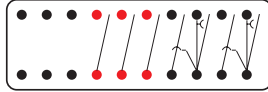
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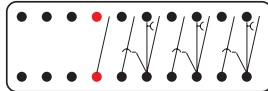
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26-26-26-1-1-1-10-10



FMS-07D

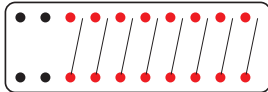
26-26-26-1-10-10-10



FMS-07E

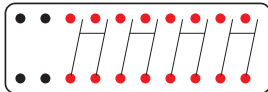
8-POLE

26-26-1-1-1-1-1-1-1-1



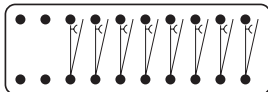
FMS-08A

26-26-2-2-2-2



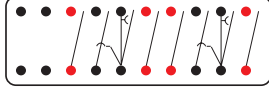
FMS-08B

26-26-9-9-9-9-9-9-9-9



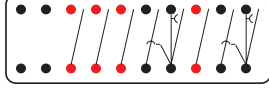
FMS-08C

26-26-1-10-1-1-10-1



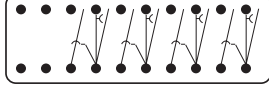
FMS-08D

26-26-1-1-1-10-1-10



FMS-08E

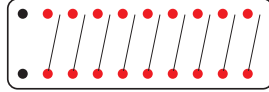
26-26-10-10-10-10



FMS-08F

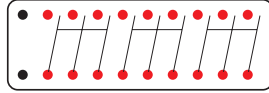
9-POLE

26-1-1-1-1-1-1-1-1-1



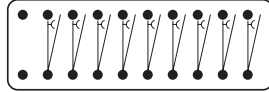
FMS-09A

26-16-16-16



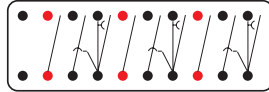
FMS-09B

26-9-9-9-9-9-9-9-9-9



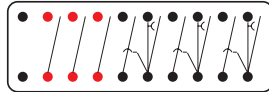
FMS-09C

26-1-10-1-10-1-10



FMS-09D

26-1-1-1-10-10-10



FMS-09E

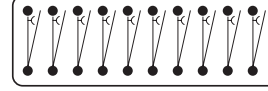
10-POLE

1-1-1-1-1-1-1-1-1-1



FMS-10A

9-9-9-9-9-9-9-9-9-9



FMS-10B

1-10-1-10-1-10-1



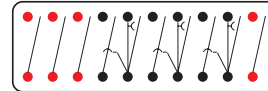
FMS-10C

1-1-1-1-10-10-10



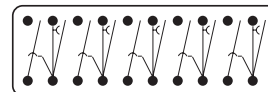
FMS-10D

1-1-1-10-10-10-1



FMS-10E

10-10-10-10-10



FMS-10F

STATES

FRONT VIEW

Part No.	ARRANGEMENT
1 POLE	
FMS-01A	26-26-26-26-26-26-26-26-1
FMS-01B	26-26-26-26-26-26-26-26-9
FMS-01C	1K-26-26-26-26-26-26-26-26
2 POLE	
FMS-02A	26-26-26-26-26-26-26-26-1-1
FMS-02B	26-26-26-26-26-26-26-26-2
FMS-02C	26-26-26-26-26-26-26-26-10
FMS-02D	26-26-26-26-26-26-26-26-9-9
FMS-02E	1K-1K-26-26-26-26-26-26-26-26
FMS-02F	26-26-26-1K-26-26-1K-26-26-26
FMS-02G	26-10-26-26-26-26-26-26-26
FMS-02H	26-26-26-26-26-10-26-26-26
FMS-02I	26-26-26-26-26-26-26-10-26
FMS-02J	26-26-26-26-26-26-26-26-1K-1K
FMS-02K	26-10R-26-26-26-26-26-26-26
FMS-02L	26-26-26-26-26-10R-26-26-26
FMS-02M	10-26-26-26-26-26-26-26-26
FMS-02N	2-26-26-26-26-26-26-26-26
3 POLE	
FMS-03A	26-26-26-26-26-26-26-1-1-1
FMS-03B	26-26-26-26-26-26-26-16
FMS-03C	26-26-26-26-26-26-26-9-9-9
FMS-03D	26-26-26-26-26-26-26-1-10
FMS-03E	26-26-26-26-26-26-26-1K-1K-1K
FMS-03F	16-26-26-26-26-26-26-26
FMS-03G	26-26-26-1K-1K-1K-26-26-26-26
FMS-03H	1-1-1-26-26-26-26-26-26
4 POLE	
FMS-04A	26-26-26-26-26-26-1-1-1-1
FMS-04B	26-26-26-26-26-26-2-2
FMS-04C	26-26-26-26-26-26-9-9-9-9
FMS-04D	26-26-26-26-26-26-1-10-1
FMS-04E	26-26-26-26-26-26-1-1-10
FMS-04F	26-26-26-26-26-26-10-10
FMS-04G	1-1-26-26-26-26-26-26-1-1
FMS-04H	1K-1K-1K-26-26-26-26-26-26-1K
FMS-04I	1K-26-26-26-26-26-26-1K-1K-1K
FMS-04J	26-26-1K-1K-1K-1K-26-26-26-26
FMS-04K	1K-1K-26-26-26-26-26-10-26
FMS-04L	1K-26-26-26-26-26-26-10-1K
FMS-04M	26-10-10-26-26-26-26-26
FMS-04N	26-26-26-26-26-10-10-26
FMS-04P	26-9-9-9-9-26-26-26-26-26
FMS-04Q	1K-26-26-26-26-26-26-10R-1K
FMS-04R	26-10R-10R-26-26-26-26-26
FMS-04S	26-26-26-26-26-10R-10R-26
FMS-04T	1K-1K-26-26-26-26-26-26-1K-1K
FMS-04U	1K-1K-1K-1K-26-26-26-26-26-26
FMS-04V	26-26-1-1-1-1-26-26-26-26
FMS-04W	1-1-1-1-26-26-26-26-26-26
FMS-04X	9-9-9-9-26-26-26-26-26-26
FMS-04Z	26-26-26-26-26-26-2-#10#
FMS-04A1	26-26-26-26-26-26-1K-1K-1K-1K
FMS-04AB	26-26-1-1-26-26-1-1-26-26
FMS-04AC	#1-1-1-1#-26-26-26-26-26-26
FMS-04AE	1K-1K-10-26-26-26-26-26-26
FMS-04AF	#6-6-6-9#-26-26-26-26-26-26
FMS-04AG	1E-1E-10-26-26-26-26-26-26
FMS-04AH	26-26-26-26-26-26-1-1-1-24

Part No.	ARRANGEMENT
4 POLE Cont.	
FMS-04AI	6-6-6-9-26-26-26-26-26-26
FMS-04AJ	1K-1K-26-26-26-26-26-26-1K-1
FMS-04AK	2-26-26-26-26-26-26-2
FMS-04AL	9-#6-6#-24-26-26-26-26-26-26
FMS-04AM	16-26-26-26-26-26-26-1
FMS-04AN	1Y-1Y-1Y-1Y-26-26-26-26-26-26
FMS-04AP	1G-1G-1G-1G-26-26-26-26-26-26
5 POLE	
FMS-05A	26-26-26-26-26-1-1-1-1-1
FMS-05B	26-26-26-26-26-1-2-2
FMS-05C	26-26-26-26-26-9-9-9-9-9
FMS-05D	26-26-26-26-26-1-10-1-1
FMS-05E	26-26-26-26-26-1-1-1-1-10
FMS-05F	26-26-26-26-26-10-1-10
FMS-05G	1K-1K-26-26-26-26-26-1K-1K-1K
FMS-05H	1K-1K-26-26-26-26-26-10-1K
FMS-05I	1K-10-1K-26-26-26-26-26-1K
FMS-05J	26-9-9-26-9-26-9-26-26-1K
FMS-05K	9-26-9-26-9-26-9-26-9-26
FMS-05L	#1-1-1-1#-1-26-26-26-26-26
FMS-05M	1K-1K-26-26-26-26-26-10-1
FMS-05N	1B-1B-1B-1B-1B-26-26-26-26-26
FMS-05P	10-9-26-26-26-26-26-1K-1K
6 POLE	
FMS-06A	26-26-26-26-1-1-1-1-1-1-1
FMS-06A1	26-26-26-26-1K-1K-1K-1K-1K-1K
FMS-06B	26-26-26-26-2-2-2
FMS-06C	26-26-26-26-1-1-1-10-1
FMS-06D	26-26-26-26-9-9-9-9-9-9-9
FMS-06E	26-26-26-26-1-1-10-10
FMS-06F	26-26-26-26-10-10-10
FMS-06G	1K-1K-1K-1K-26-26-26-26-1K-1K
FMS-06H	1K-1K-1K-26-26-26-26-1K-1K-1K
FMS-06I	26-26-26-1K-1K-1K-1K-1K-26
FMS-06J	1K-26-26-26-26-1K-1K-10-1K
FMS-06K	1K-1K-26-26-26-26-9-10-1K
FMS-06L	1K-26-26-26-26-10-10-1K
FMS-06M	9-26-9-26-9-26-26-9-9-9
FMS-06N	26-10-26-10-26-10-26
FMS-06P	26-26-9-9-9-9-9-26-26
FMS-06Q	26-26-26-10-10-10-26
FMS-06R	26-26-26-9-9-9-9-9-26
FMS-06S	1K-26-26-26-26-1K-1K-10R-1K
FMS-06T	26-26-26-10R-10R-10R-26
FMS-06U	26-9-9-9-26-26-1-1-1-26
FMS-06V	26-26-26-26-2K-2K-2K
FMS-06W	26-26-10-2-2-26-26
FMS-06X	26-26-26-10KE-10KG-10KR-26
FMS-06Y	1K-1K-1K-1K-1K-1K-26-26-26-26
FMS-06Z	26-26-1-1-9-9-9-9-26-26
FMS-06AB	26-2-26-2-26-2-26
FMS-06AC	26-26-26-26-#1-1-1-1-#-#10#
FMS-06AD	26-1-1-26-1-1-26-10-26
FMS-06AE	26-1-1W-26-1-1W-26-1-1W-26
FMS-06AF	10-10-10-26-26-26-26
FMS-06AG	#1-1-1-1#-2-26-26-26-26
FMS-06AH	16-1-2-26-26-26-26
FMS-06AJ	2K-1-1Y-1B-1W-26-26-26-26
FMS-06AK	2K-2K-2K-26-26-26-26
FMS-06AL	26-26-26-26-10-1B-1B-2

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

STATES

FRONT VIEW

Part No.	ARRANGEMENT
6 POLE Cont.	
FMS-06AM	16Y-26-26-26-26-16B
FMS-06AN	1B-1B-1-1-1-1-26-26-26-26
FMS-06AO	1B-1B-1-1-1Y-1Y-26-26-26-26
FMS-06AP	1K-1K-1K-1-1-1K-26-26-26-26
FMS-06AQ	16-26-26-26-26-16
FMS-06AR	1-1-1-1-2K-26-26-26-26
FMS-06AS	1-1-1-1-1-1-26-26-26-26

7 POLE

FMS-07A	26-26-26-1-1-1-1-1-1-1
FMS-07B	26-26-26-9-9-9-9-9-9-9
FMS-07C	26-26-26-1-10-1-10-1
FMS-07D	26-26-26-1-1-1-10-10
FMS-07E	26-26-26-1-10-10-10
FMS-07F	1K-1K-1K-1K-26-26-1K-1K-1K-26
FMS-07G	1K-1K-1K-1K-26-26-26-1K-1K-1K
FMS-07H	26-1K-1K-1K-1K-1K-1K-1K-26-26
FMS-07I	1K-26-26-1K-1K-1K-1K-1K-26
FMS-07J	1K-26-26-1K-1K-1K-26-1K-1K-1K
FMS-07K	1K-1K-1K-1K-1K-26-26-10-26
FMS-07L	1K-1K-26-26-26-10-1K-1K-1K
FMS-07M	1K-10-1K-26-26-26-1K-1K-1K
FMS-07N	1K-1K-9-26-9-26-9-26-1K-1K
FMS-07P	1K-1K-1K-26-26-10-10-26
FMS-07Q	1K-1K-26-26-26-10-10-1K
FMS-07R	1K-9-9-26-9-26-9-26-1K-1K
FMS-07S	26-26-26-9-10-10-10
FMS-07T	26-26-26-1-1-1-1-10-1
FMS-07U	26-26-26-1-#10#-1-#10#-1
FMS-07V	1K-1K-1-1-1-1-1-26-26-26
FMS-07W	1K-1K-1K-1K-1K-1K-1K-26-26-26
FMS-07X	26-26-26-24-1-1-10-10
FMS-07Y	1-1-1-26-10-26-26-10
FMS-07Z	1-10-10-10-26-26-26
FMS-07AB	1-1-1-1-1-1-1-26-26-26
FMS-07AC	10-10-10-9-26-26-26
FMS-07AD	26-26-9-10-10-10-26
FMS-07AE	1-1-26-26-1-1-26-10-9
FMS-07AF	26-26-26-1-24-1-10-10
FMS-07AG	10R-10R-10R-9R-26-26-26

8 POLE

FMS-08A	26-26-1-1-1-1-1-1-1-1
FMS-08B	26-26-2-2-2-2
FMS-08C	26-26-9-9-9-9-9-9-9-9
FMS-08D	26-26-1-10-1-1-10-1
FMS-08E	26-26-1-1-1-10-1-10
FMS-08F	26-26-10-10-10-10
FMS-08G	26-10-10-10-10-26
FMS-08H	1K-1K-1K-1K-1K-26-26-1K-1K-1K
FMS-08I	1K-1K-1K-1K-26-26-1K-1K-1K-1K
FMS-08J	1K-26-26-1K-1K-1K-1K-1K-1K-1K
FMS-08K	1K-1K-1K-1K-1K-26-26-10-1K
FMS-08L	1K-1K-1K-26-26-10-1K-1K-1K
FMS-08M	1K-1K-1K-1K-26-10-10-26
FMS-08N	1K-1K-26-9-9-9-26-1K-1K
FMS-08P	1K-1K-26-10-10-26-1K-1K
FMS-08Q	1K-10-1K-26-26-1K-10-1K
FMS-08R	26-26-1K-1K-1K-10-10-1K
FMS-08S	26-10-10-10-1K-1K-26
FMS-08T	26-10-10-10-26-1K-1K
FMS-08U	1K-26-9-10-10-10-26

Part No.	ARRANGEMENT
8 POLE Cont.	
FMS-08V	9-9-9-9-26-26-9-9-9-9
FMS-08W	26-9-9-9-9-9-9-9-9-26
FMS-08X	1B-1B-1B-1B-26-26-1B-1B-1B
FMS-08Y	1K-1K-26-10R-10R-26-1K-1K
FMS-08Z	1K-10R-1K-26-26-1K-10R-1K
FMS-08AB	10-10-10-10-26-26
FMS-08AC	1-1-1-1-26-26-1-1-1-1
FMS-08AD	26-26-#1-9-10-10-10-10
FMS-08AE	26-9-9-9-9-9-26-1K-1K
FMS-08AF	26-26-1-1K-1B-1B-1B-1B-1B
FMS-08AG	26-26-1E-1E-1E-1E-1E-1E-1E
FMS-08AH	26-26-10-10-10-1-1
FMS-08AI	1-1-1-24-26-26-1-1-1-24
FMS-08AJ	26-10R-10R-10R-10R-26
FMS-08AK	26-26-1-1-1-1-1-1G-1G
FMS-08AL	10-10-10-2-26-26
FMS-08AM	26-26-1-1-10-10-10
FMS-08AN	26-26-9-9-9-#6-6-6-6#-24
FMS-08AP	1K-1K-2K-1-1Y-1B-1W-26-26
FMS-08AQ	2K-2K-2K-2K-26-26
FMS-08AR	1B-1B-1B-1B-1B-1B-1B-26-26
FMS-08AS	10-10-1G-1-1-1-26-26
FMS-08AT	26-1-1-1Y-1Y-1Y-1Y-1Y-1Y-26
FMS-08AU	2K-2K-2K-1-1-26-26
FMS-08AV	10-10-10-1-1-26-26
FMS-08AW	26-26-1-1-1-1-10-10
FMS-08AX	1K-1K-1K-1K-26-26-1K-1K-1K-1
FMS-08AZ	1B-1B-1-1-#6-6-6#-9-26-26
FMS-08XY	1K-1-1-10-10-26-26-1
FMS-08BA	1K-1K-1K-1-1-1-1-1K-26-26
FMS-08BB	26-26-2-16-16
FMS-08BC	26-10-10B-10R-10E-26
FMS-08BD	10-10-10-26-26-2
FMS-08BE	26-10EK-10EK-10EK-10EK-26
FMS-08BF	10-10-10-26-26-1K-1K

9 POLE

FMS-09A	26-1-1-1-1-1-1-1-1-1
FMS-09AB	10-10-10-9-26-1K-1K
FMS-09AC	26-10-10-10-10-1
FMS-09AD	1-1-26-10-10-10-24
FMS-09AE	1K-1K-1K-26-10-10-10
FMS-09AF	10R-10R-10R-9R-26-10R
FMS-09B	26-16-16-16
FMS-09C	26-9-9-9-9-9-9-9-9-9
FMS-09D	26-1-10-1-10-1-10
FMS-09E	26-1-1-1-10-10-10
FMS-09F	1K-1K-1K-1K-26-1K-1K-1K-1K
FMS-09G	1K-1K-26-1K-1K-1K-1K-1K-1K
FMS-09H	1K-1K-1K-1K-1K-26-10-9-1K
FMS-09I	1K-1K-1K-1K-1K-10-10-26
FMS-09J	1K-1K-1K-1K-26-10-10-1K
FMS-09K	1K-1K-26-10-10-10-1K
FMS-09L	9-10-10-10-10-26
FMS-09M	1-10-10-10-10-26
FMS-09N	26-#1-1-1-#10-10-10-10
FMS-09P	16-10-10-10-26
FMS-09Q	1B-1B-1B-1B-1B-1B-1B-1B-26
FMS-09R	26-16K-16K-16K
FMS-09S	9-9-9-#6-6-6-6#-9-9-26
FMS-09T	1-1-1-10-10-10-26
FMS-09U	#10-10-10#-26-16

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

STATES

FRONT VIEW

Part No. 9 POLE Cont.

ARRANGEMENT

FMS-09V	1-1K-1K-1K-1K-1K-1K-10-26
FMS-09W	10-26-1-10-10-10
FMS-09X	1-1G-1-26-10-10-10
FMS-09Y	#1K-1K-1K-1K#-#6-6-6-6#-24-26
FMS-09Z	2-26-9-10-10-10

10 POLE

FMS-10A	1-1-1-1-1-1-1-1-1-1
FMS-10A1	1K-1K-1K-1K-1K-1K-1K-1K-1K-1K
FMS-10A2	1B-1B-1B-1B-10-10-10
FMS-10A3	10-1-1-1-1-1-1-1-1-1
FMS-10AB	1-10-10-10-10-10
FMS-10AC	10-9-9-9-9-9-9-1-1
FMS-10AD	10-10-10-1K-1K-1K-1
FMS-10AE	#1-1-1-1-1#-1-1-1-1-1-1
FMS-10AF	1-1-1-10-10-1-1-1
FMS-10AG	10-1K-1K-1K-1K-1K-1K-1K-1
FMS-10AH	1E-1E-1E-1E-1E-1E-1E-1E-1E-1E
FMS-10AJ	1-1-1K-1K-1K-1K-1K-1K-1-1
FMS-10AK	1-1K-1-1K-1K-1K-1K-1-1K-1
FMS-10AL	1E-1E-1-1-1-1-1K-1K-1K-1K
FMS-10AM	2-1-1-10-10-10
FMS-10AN	6-6-6-9/6-6-90-1K-1K
FMS-10AP	1K-1-1K-1-1K-1-1K-1K-1K-1K
FMS-10AQ	1-1-1-1E-1E-1E-1E-1E-1E-1E
FMS-10AR	1B-1B-10-10-10-10G
FMS-10AS	1-1K-1B-1B-10-10-10
FMS-10AT	1E-1E-1E-1E-10-10-10
FMS-10AU	1-1K-10-10-10-10
FMS-10AV	1W-1B-1B-1E-1E-1E-1E-1E-1E-1E
FMS-10AW	1W-1E-1E-1E-10-10-10
FMS-10AX	1G-1G-1G-1G-1G-1W-1W-1W-1W-1W
FMS-10AY	2K-2K-2K-#1K-1K-1K-1K#
FMS-10AZ	#1K-1K-1K-1K#-13-13-13
FMS-10B	9-9-9-9-9-9-9-9-9-9
FMS-10BA	1B-1B-1B-1B-1B-1B-1B-1B-1K-1K
FMS-10BC	1-13-1-13-1-13-1
FMS-10BD	1Y-1K-1K-1K-1K-1K-1K-1K-2K
FMS-10BE	2K-1B-1B-1B-1B-1B-2K
FMS-10BF	1Y-1-1-1-1-1-1-1-1-1
FMS-10BG	1K-1W-10-10-10-2
FMS-10BH	1-1-1-1G-10-10-10
FMS-10BI	1W-1W-10-10-10-10
FMS-10BJ	1-1-1-1G-1Y-1B-1Y-1E-1E-1Y
FMS-10BK	1W-1W-1-1-1Y-1B-1Y-1E-1E-1K
FMS-10BL	1W-1W-1E-1E-10-10-10
FMS-10BM	1K-1Y-1Y-1K-10-10-10
FMS-10BN	1W-1W-1Y-1E-10-10-10
FMS-10BO	2-2-2-2Y-2Y
FMS-10BP	2Y-2Y-2Y-2Y-2
FMS-10BQ	2-2-2W-2W-2BN
FMS-10BR	2Y-2-2-2-2
FMS-10BS	2-2-2-2-2BN
FMS-10BT	2Y-2Y-2-2-2BN
FMS-10BU	1W-1W-1-1-1-1G-1K-1K-1K-1Y
FMS-10BV	1W-1W-1E-1E-1Y-1Y-1B-1B-1Y-1W
FMS-10BW	1W-1W-1Y-1K-1K-1K-1K-1K-1K-1K
FMS-10BX	1W-1Y-1Y-1E-10-10-10
FMS-10BY	1W-1W-1K-1K-1K-1K-1K-1K-1K-1K
FMS-10BZ	1K-1Y-1Y-1Y-10-10-10
FMS-10C	1-10-1-10-1-10-1
FMS-10C1	1K-10-1K-10-1K-10-1K

Part No. 10 POLE Cont.

ARRANGEMENT

FMS-10CA	6-6-6-9-1-6-6-6-9-1
FMS-10CB	1K-1K-1K-1K-1E-1E-1E-1E-1E-1E
FMS-10CD	#1-1-10-1-10-1-10#
FMS-10CE	1E-1E-1E-1E-1E-1E-1E-1W-1W
FMS-10CF	10B-10B-10B-1K-1K-1K-1K
FMS-10CG	10Y-10Y-10Y-10G-1K-1K
FMS-10CH	1K-1K-1-1-10E-10E-10E
FMS-10CI	10Y-10Y-10Y-1K-1K-1K-1K
FMS-10CJ	1-1K-1B-10R-10-10B-1W
FMS-10CK	1B-10R-1B-10R-1B-10R-1B
FMS-10CL	#1K-1K-1K-1K#-2K-2K-2K
FMS-10CM	#10-10-10#-1K-1K-1K-1K
FMS-10CN	#10#-1K-1K-1K-1K-1K-1K-2K
FMS-10CO	1-1K-1K-1K-1K-1K-1K-1-1
FMS-10CP	1K-1K-1K-1K-1K-1K-10R-1K
FMS-10CQ	1W-1W-1Y-1B-10-10-10
FMS-10CR	1K-1Y-1Y-1E-10-10-10
FMS-10CS	1-9-9-9-9-9-9-9-1
FMS-10CT	16-10-10-10-1
FMS-10CU	1B-1B-1G-1G-1W-1W-1Y-1Y-1Y-1Y
FMS-10CV	1W-1W-1Y-1Y-1Y-1Y-1Y-1Y-1Y-1Y
FMS-10CW	1Y-1Y-1Y-1Y-1K-1K-1-1-1-1
FMS-10CX	1K-1-1-1-1-1-1-1-1-1
FMS-10CY	10Y-10Y-10Y-10Y-10Y
FMS-10CZ	1B-1B-1B-10Y-10Y-10Y-1B
FMS-10D	1-1-1-1-10-10-10
FMS-10DA	1K-1K-1K-10Y-10Y-10Y-1K
FMS-10DB	1K-1K-1K-1K-1K-1K-10Y-1K
FMS-10DC	1E-1E-1E-1E-1E-1E-1Y-1Y-1Y-1Y
FMS-10DE	1K-1K-1K-1K-1B-1B-1B-1B-1B
FMS-10DF	10R-10R-10R-1K-1K-1K-1K
FMS-10DG	1-1-1-1K-1K-1K-1K-1-1-1
FMS-10DH	10R-1K-1K-10-10-10
FMS-10DI	#10-10-10#-10-2K
FMS-10DJ	#1K-1K-1K-1K#-1-1-1-1-1-1
FMS-10DK	1Y-1B-1B-1B-1B-1B-1B-2K
FMS-10DL	1B-1B-1B-10R-10R-10R-1B
FMS-10DM	1E-1W-1K-1K-1K-1K-1K-1K-1K
FMS-10DN	1-1K-1K-10-10-10-1K
FMS-10DO	10B-10B-10B-10B-1W-1W
FMS-10DP	1Y-1Y-1Y-1Y-1Y-1Y-1-1-1K-1K
FMS-10DQ	1K-1K-1-1-1K-1K-1K-1E-1E
FMS-10DR	10-10-10-1E-1E-1E-1E
FMS-10DS	10-10-10-1-1K-1B-1B
FMS-10DT	1K-1K-1K-1K-1K-1K-10R-10R
FMS-10DU	1-1-1W-1K-1B-1B-1-1-1-1
FMS-10DV	1-1W-1W-1W-1W-1K-1K-1K-1K-1K
FMS-10DW	10W-10W-10W-1W-1W-1W-1W
FMS-10DX	10-9-9-9-9-9-9-9-9
FMS-10DY	9-9-9-9-1-1-1-1-1-1
FMS-10DZ	1-1-1-1-2K-#1K-1K-1K-1K#
FMS-10E	1-1-1-10-10-10-1
FMS-10E1	1K-1K-1K-10-10-10-1K
FMS-10E2	10-10-10-1-1-1-1
FMS-10E3	10-10-10-10-1-1
FMS-10E4	1K-10-10-10-10-1K
FMS-10EA	9-9-9-9-9-9-1K-1K-1K-1K
FMS-10EB	1-1-1-1-2K-1K-1K-1K-1K
FMS-10EC	1W-1K-1B-1B-1B-1B-1B-1-1
FMS-10F	10-10-10-10-10
FMS-10FA	1-1K-1K-1K-1K-1K-1K-1K-1K
FMS-10FB	1K-1K-10-10-10-1-1

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

STATES

FRONT VIEW

Part No. 10 POLE Cont.	ARRANGEMENT
FMS-10FC	1K-1K-1K-1K-1K-1K-1K-1K-1-1
FMS-10FE	10E-10E-10E-10E-10E
FMS-10FF	10-10-10-1K-1K-1K-1K
FMS-10FG	1-1-1-1-1-1-1-10-1
FMS-10FH	1K-1K-1K-1K-1K-1K-1K-10-1
FMS-10FI	1-10-10-10-10-1K
FMS-10FJ	1K-1K-10-1K-1K-1K-1K-1K
FMS-10FK	1K-1K-1K-10-10-10-1
FMS-10FL	1-1K-1K-10-1K-1K-10-1K
FMS-10FM	1-10-10-10-1K-1K-1K
FMS-10FN	1B-1B-10-10-10-10
FMS-10FP	1-1-10-10-10-10
FMS-10FQ	# 1-1-1 #-10-10-10-1
FMS-10FR	1K-1K-1K-1K-1K-1K-10-1K-1K
FMS-10FS	1-1G-10-10-10-10
FMS-10FT	1B-1B-1B-1B-1B-1B-1K-1K-1W-1W
FMS-10FU	1B-1B-1B-1B-1K-1K-1K-1K-1W-1W
FMS-10FV	1K-1K-1K-1K-1-1-1K-1K-1K-1K
FMS-10FW	1K-1K-1K-1K-1K-1K-1K-10R
FMS-10FX	1K-1K-1K-1K-1K-1K-1K-1K-1
FMS-10FY	1-1K-1K-1K-1K-1K-1K-1K-1
FMS-10FZ	10-10-10-10-2
FMS-10G	10-10-10-10-1K-1K
FMS-10GA	1-1-1-1-1-1-1K-1K-1K-1K
FMS-10GB	1K-1K-1K-1K-1K-1K-1K-10
FMS-10GC	10-10-10-1B-1B-1B-1B
FMS-10GD	1E-1G-1-1K-1E-1K-1K-1K-1K
FMS-10GE	1E-1G-1-1K-1K-1E-1G-1-1K-1K
FMS-10GF	1E-1G-1-10KE-10KG-10KR-1K
FMS-10GH	1E-1E-1E-10-10-10-1G
FMS-10GI	1-1-1-24-10-10-10
FMS-10GJ	1K-1-1K-1K-1-1K-1K-1-1K-1K
FMS-10GK	1K-1K-1K-1K-10-10-10
FMS-10GL	1K-1K-1K-1K-1-1-1-1-1-1
FMS-10GM	1-1-1K-1K-1K-1K-1K-1K-1K
FMS-10GN	1K-1K-1K-1K-1K-1K-1K-1B-1B
FMS-10GP	1-1-1-1-1-1-1B-1B-1B-1B
FMS-10GQ	#6-6-6-24#-#6-6-6-24#-1-1
FMS-10GR	1B-1B-1B-1B-1B-1B-1K-1K-1K-1K
FMS-10GS	1K-1K-10-10-10-10
FMS-10GT	1B-1B-1B-1B-1B-1B-1B-1B-1B
FMS-10GU	10-1B-1B-1B-1B-1B-1B-1B
FMS-10GV	2K-10-10-10-10
FMS-10GW	1-1-13R-1-1K-1K-1K-1K-1K
FMS-10GX	1K-1B-1-1W-10-10BB-10RR
FMS-10GY	1K-1K-10R-10R-10R-10R
FMS-10GZ	1K-10-10-10-10-1
FMS-10HA	6-6-6-24-1-1-1-1-1-1
FMS-10HB	6-6-6-24-10-10-10
FMS-10HC	#6-6-6-#-1K-1-1-1-1-1-1
FMS-10HD	1K-1K-1K-10-10-10-9
FMS-10HE	2-2-2-2-2
FMS-10HF	1B-1B-6B-1B-1B-1B-6B-1B-1B
FMS-10HG	1-1-1-24-1B-1B-1B-1B-1B
FMS-10HI	10-10-1-1-1-1-1-1
FMS-10HJ	#1-1-1-1#-10-10-10
FMS-10HK	1E-1E-10-10-10-10
FMS-10HL	10-10-10-10R-10R
FMS-10HM	1-10R-1Y-10Y-1B-10B-1K
FMS-10HN	1K-1K-1K-1K-1K-1K-1K-#1K-1K#
FMS-10HP	#1-1-1-1-10-10-10#
FMS-10HQ	1-1-1-1-1-10-10-1

FRONT VIEW - 10-POLE

Part No. 10 POLE Cont.	ARRANGEMENT
FMS-10HR	1K-1K-10-10-10-1K-1K
FMS-10HT	#1-1-1-1-1-1-1#-1-1-1
FMS-10HU	1-1-1-1-1-1-9-9-9-9
FMS-10HV	1-9-9-9-9-9-9-9-9
FMS-10HW	1-#10#-1-#10#-1-#10#-1
FMS-10HY	1K-1K-1K-1K-1K-1-1K-1-1K-1
FMS-10HZ	1K-1K-1K-1K-1K-1K-1-1-1
FMS-10I	9-1K-1K-1K-1K-1K-1K-1K-1K
FMS-10J	1K-1K-1K-1K-1K-1K-10-1K
FMS-10JA	24-1-1-1-10-10-10
FMS-10JB	10-10-10-1Y-1B-1B-1B
FMS-10JC	10-10-10-1E-1B-1B-1B
FMS-10JD	10-10-10-10W-1-1
FMS-10JE	10-10-10-10W-1E-1E
FMS-10JF	1B-1B-1B-1B-1G-1G-1E-1E-1-1
FMS-10JG	1-1K-1-1K-1-1K-1-1K-1-1K
FMS-10JH	1-1K-1K-1K-1K-1K-1K-1K-1E
FMS-10JI	10-10-10-1B-1B-1-1
FMS-10JJ	1-1-1-1-1K-1K-1K-1K-1K
FMS-10JK	10-1K-1K-1K-1K-1K-1K-1K
FMS-10JL	16-16-10-10
FMS-10JM	1B-1G-1E-1-1W-1B-1G-1Y-10
FMS-10JN	1K-1K-1K-24-10-10-10
FMS-10JP	9-9-9-9-#-6-6-6-6-#9-9
FMS-10JQ	1-1K-1B-1B-1B-1B-1B-10G
FMS-10JR	1W-1E-1E-1E-1E-1E-1E-1E
FMS-10JS	1-1K-1B-1B-1B-1B-1B-1B
FMS-10JT	1-1K-1B-1B-1B-1-1K-1B-1B
FMS-10JU	1K-1K-1K-1K-1K-1K-1-1-1
FMS-10JV	1B-10-10-10-10-1B
FMS-10JW	16-24-1-24-1E-1E-1G-1G
FMS-10JX	1-1K-1K-1K-1K-1K-1E-1-1
FMS-10JY	10-9-9-1K-1K-1K-1K-1K
FMS-10JZ	1-1K-1E-1E-1E-1E-1-1-10
FMS-10K	1K-1K-1K-1K-1K-9-10-1K
FMS-10KA	1K-1K-1K-1K-1K-1K-1K-2
FMS-10KB	1-1-1-10-1-1-1-1-1
FMS-10KC	2K-1K-1K-1K-1K-1K-1K-1K
FMS-10KD	10-10-10-9-1-1-1
FMS-10KE	#1K-1K-1K-1K#-1-2-1-1-1
FMS-10KF	2-1-1-1-1-1-1-1-1
FMS-10KG	2-1-1-1-1-1-1-2K
FMS-10KH	1-1-1W-1W-1-1E-1-1-1-1
FMS-10KI	2-2-1-1-1-1W-1W-1
FMS-10KJ	2-1B-1B-1-1W-1-1-1-1
FMS-10KL	2-1-1W-1-1-1-1-1-1
FMS-10KM	2-1-1Y-1-1-1-1-1-1
FMS-10KN	1E-1-1W-1W-1W-1-1-1-1-1
FMS-10KO	2-1-1-1-1-1-1W-1W-1
FMS-10KP	#1-1-1-1#-2K-1-1-1-1
FMS-10KQ	1-1KU-1KU-1KU-1KU-1K-1K-1K-1K
FMS-10KR	1-1K-9-10-10-10-1K
FMS-10KS	1K-1-1-1-10-10-10
FMS-10KT	10R-10R-10R-9R-1-1-1
FMS-10KU	10R-10R-1-1-1-1-1-1
FMS-10KV	10R-10R-10R-1-1-1-1
FMS-10KW	1-16-10-10-10
FMS-10KX	#10-10-10-10-10#
FMS-10KY	1-1K-1E-1E-1E-1E-1E-1E
FMS-10KZ	1-1K-1E-1E-1E-1E-1E-1-1
FMS-10L	1K-1K-1K-1K-1K-10-10-1K
FMS-10LA	#6-6-6-9#-#10#-2-1-1

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

STATES

FRONT VIEW

Part No. 10 POLE Cont.	ARRANGEMENT
FMS-10LB	1K-1K-1K-1K-1-1-1-1K-1K-1K
FMS-10LC	1-10-10-10-1-1-1
FMS-10LD	1-1-1-1-1-1-10-10
FMS-10LE	1K-1K-1K-1K-1K-1K-10-10
FMS-10LF	10-10-1-1-1-1B-1B-1B
FMS-10LG	10-9-9-9-9-9-9-1K-1K
FMS-10LH	10-1-24-1B-1B-1B-1B-1B-1B
FMS-10LI	1-1K-1-1-1K-1-1-1K-1-1
FMS-10LJ	1-1K-13E-1-1-1-1-1-1
FMS-10LK	1-1-1-9-10-10-10
FMS-10LM	1-1K-13E-1-1K-13E-1-1
FMS-10LN	16-1-1-1-1-1-1-1-1
FMS-10LP	1K-1K-1K-10-1K-1K-1K-1K-1K
FMS-10LQ	1K-1-1W-1K-1-1W-1K-1-1W-1K
FMS-10LR	1-1-1-10-10-10-1W
FMS-10LS	10-9-9-1-1-1-1-1-1
FMS-10LT	2-10-10-10-10
FMS-10LU	1B-1B-1B-1B-1K-1K-1K-1K-1K-1K
FMS-10LV	1-1-1K-10-10-10-9
FMS-10LW	2Y-2Y-2Y-2Y-2Y
FMS-10LX	1W-1W-1W-10EK-10EK-10EK-1W
FMS-10LY	1-2-2-2-16
FMS-10LZ	1-10-10-10-16
FMS-10M	1K-1K-1K-10-1K-1K-10-1K
FMS-10MA	1-1-1-24-1-24-10-10 (#24 with jaws)
FMS-10MB	10-10-1B-1B-1B-1B-1B-1B
FMS-10MC	1-1-1-1-1-1-1-1-1B-1B
FMS-10MD	1K-24-1K-#10R#-#10R#-#10R#-9W
FMS-10ME	1-10-1-1-1-1-10-1
FMS-10MF	10-10-10-1G-1-1-1
FMS-10MG	1K-1-1B-1B-1Y-1Y-1G-1-1-1
FMS-10MH	1N-1W-1B-1B-1G-1K-1Y-1Y-1K-1K
FMS-10MI	1K-1Y-1B-1B-1Y-1Y-1N-1W-1K-1K
FMS-10MJ	10-10-10-1N-1Y-1W-1W
FMS-10MK	10-10-10-1N-1N-1W-1W
FMS-10ML	1K-1K-1K-1K-1K-1K-1-1K-1
FMS-10MM	1-10KW-1E-10KW-1B-10GW-1Y
FMS-10MN	10-10-10-10-1B-1B
FMS-10MP	1-1-1-1-1K-1K-1K-1G-1-1K
FMS-10MQ	#10-10-10#-#1K-1K-1K-1K#
FMS-10MR	1Y-1K-1K-1K-1K-1K-1-1-1
FMS-10MS	2K-1K-1Y-1B-1B-1K-1-1-1
FMS-10MT	#1K-1K-1K-1K#-1K-1K-1K-1K-1K
FMS-10MU	1Y-1K-1K-1K-1K-1K-1K-1K-1
FMS-10MV	1K-10-10-10-1K-1K-1
FMS-10MW	1-1-1-1-1-1-1-1-1K-1K
FMS-10MX	1-2-2-2-2-1
FMS-10MY	1B-1B-1K-1K-1K-1K-1K-1K-1K
FMS-10MZ	1-1-1-1-1-1-1-1K-1K-1K
FMS-10N	1K-10-1K-1K-1K-10-1K
FMS-10NA	1-1K-1K-1K-1K-1K-1K-10-1K
FMS-10NB	1N-1W-1B-1B-1G-1W-1Y-1Y-1W-1W
FMS-10NC	9-10-10-10-10-9
FMS-10ND	1K-1-1K-1-1K-1K-1K-1K-1K
FMS-10NE	9-9-9-9-9-9-9-10
FMS-10NF	1K-1-1K-1-1K-1-1K-1-1K-1
FMS-10NG	#6-6-6-24-1#-#6-6-6-24-1#
FMS-10NH	1-1-1-10-10-10-9
FMS-10NI	10B-10B-1B-1B-1B-1B-1B-1B
FMS-10NJ	1B-1B-1B-1B-1-1-1-1-1
FMS-10NK	1B-1-1-1-1-1-1-1-1
FMS-10NL	1-1-1-24-1-24-1-24-1-24

Part No. 10 POLE Cont.	ARRANGEMENT
FMS-10NM	2K-2K-10-2K-1-1
FMS-10NP	2K-10-2K-2K-1-1
FMS-10NQ	1-1-1K-1K-1K-1K-1K-1-1W
FMS-10NR	1-1-1-1-1-1K-1K-1K-1K-1K
FMS-10NS	1B-1B-1G-1G-1W-1W-1W-1W-1W
FMS-10NT	1Y-1Y-1Y-1Y-1Y-1Y-1Y-1G-1G
FMS-10NU	1G-1G-1G-1G-1G-1Y-1Y-1Y-1Y-1Y
FMS-10NV	1Y-1Y-1Y-1Y-1Y-1Y-1Y-1Y-1Y
FMS-10NW	1K-10-10-10-10-9
FMS-10NX	1K-1K-1K-1K-1-1-1K-10-1K
FMS-10NY	2B-2Y-1-1-1-1-1-1
FMS-10NZ	1K-10-10-10-1K-1K-1K
FMS-10P	10-10-1K-1K-1K-1K-1K-1K
FMS-10PA	1K-1K-1K-1K-1K-1K-10R-1K
FMS-10PB	1K-1K-1K-1K-1K-10R-10R-1K
FMS-10PC	1K-10R-1K-1K-1K-1K-10R-1K
FMS-10PD	1K-1K-1K-10R-10R-10R-1K
FMS-10PE	1K-10R-1K-10R-1K-10R-1K
FMS-10PF	1K-10R-10R-10R-10R-1K
FMS-10PG	10R-10R-10R-10R-10R
FMS-10PH	1K-1K-1K-1K-10R-10R-10R
FMS-10PJ	1-1-1K-10-10-10-1K
FMS-10PK	9-9-9-9-9-9-9-9-1
FMS-10PL	9R-9R-9R-10-10-10-9
FMS-10PM	1-1-9-10-10-10-1
FMS-10PN	1-1-2-1-2-1-1-1
FMS-10PQ	1-1-1-1-1-1K-1-1-9-9
FMS-10PR	10-10-10-16-1
FMS-10PS	1kU-1kU-1kU-1kU-10-10-10
FMS-10PT	1-1kU-1kU-1kU-1kU-1-1-1-1-1
FMS-10PU	1-1-1-1K-1K-1K-1K-1K-1K-1K
FMS-10PV	1-1-1-1-1-1-1-1-10
FMS-10PW	1-1-1Y-1Y-1K-1K-1K-1K-1K
FMS-10PX	1-1-1-1Y-1Y-1K-1K-1K-1K-1K
FMS-10PY	1-10-10-10-10-1Y
FMS-10PZ	13-13-13-13-13
FMS-10QA	1-1Y-1K-1K-1K-1K-1K-1K-1K
FMS-10QB	10-10-10-10-1K-1
FMS-10QC	1-1-1-1-1-1Y-1K-1K-1K-1B
FMS-10QD	1-1-1K-1Y-1K-1B-1K-1K-2K
FMS-10QE	#10-10-10#-1K-1K-10
FMS-10QF	#10-10-10#-1K-1K-1K-1B
FMS-10QG	6-6-6-9-6-6-6-9-1K-1K
FMS-10QH	6-6-6-9-6-6-6-9-10
FMS-10QI	6-6-6-9-1K-1K-1K-1K-1K
FMS-10QJ	6-6-6-9-6-6-6-9-1-1
FMS-10QK	6-6-6-9-1-1-1-1-1-1
FMS-10QL	1-1-1-1-1-1-10-1-1
FMS-10QM	#6-6-6#9-1-1-1-1-1
FMS-10QN	#6-6-6-#9-#6-6-6-#9-1-1
FMS-10QP	1G-1-1W-1K-10G-10R-10W
FMS-10QQ	1-1K-1K-10-10-10-9
FMS-10QR	1-10-10-10-10-9
FMS-10QS	1Y-1Y-1Y-1Y-10-10-10
FMS-10QT	1B-1B-1B-24-10-10-10
FMS-10QU	1-1B-1K-1K-1K-24-#6-6-6-5#
FMS-10QV	1W-1W-1W-1W-10-10-10
FMS-10QW	10E-10E-10E-10B-10B
FMS-10QX	10B-1-1K-1K-1K-1-1K-10Y
FMS-10QY	10Y-10Y-10G-10G-10G
FMS-10QZ	1-1-1-1-2-2-2
FMS-10R	1K-1K-9-10-10-10-1K

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

STATES

FRONT VIEW

Part No. 10 POLE Cont.	ARRANGEMENT
FMS-10RA	10-10-10-1-16
FMS-10RB	2-2-2-1-16
FMS-10RC	9-9-9-9-9-9-9-1K-1K
FMS-10RD	24-1-1-9-9-24-1-1-9-9
FMS-10RE	1-10-10-1-1-10-1
FMS-10RF	1-1K-1K-1K-10-10-10
FMS-10RG	1W-1W-1W-#10EK#-#10EK#-#10EK#-1W
FMS-10RH	1Y-1Y-1Y-1Y-1Y-1Y-#6-6-6#-9
FMS-10RI	1B-1B-#6-6-6#-9-#6-6-6#-9
FMS-10RJ	1-1-1-1-1-1Y-1Y-1Y-1Y-1Y
FMS-10RK	#6-6-6#-9-#6-6-6#-9-10
FMS-10RL	1B-1B-1-1-1-1-1Y-1Y-1Y-1Y
FMS-10RM	1B-1B-1-1-10-10-10
FMS-10RN	1B-1B-1-1Y-1Y-1Y-#6-6-6#-9
FMS-10RO	1B-1B-1-1-1Y-1Y-1Y-1Y-1Y
FMS-10RP	1B-1Y-1Y-1Y-10-10-10
FMS-10RQ	1-1-1-1-1-1kU-1kU-1kU-1kU-1
FMS-10RR	1-10-10-10-1N-1N-1N
FMS-10RS	2K-1B-1B-1B-1B-1B-1B-1B
FMS-10RT	1-1-1-1-1-1-1-1-1-1Y
FMS-10RU	10-10-9-9-9-9-1K-1K
FMS-10RV	1E-1E-1E-1E-1E-1Y-1Y-1Y-1Y-1Y
FMS-10RW	1Y-1Y-1Y-1Y-1Y-1Y-1Y-1-1-1
FMS-10RX	#1K-1K-1K-1K#-#6-6-6-6#-24-1K
FMS-10RY	2K-#1K-1K-1K-1K#-2K-2K
FMS-10RZ	1K-1K-1-1-1K-1K-1K-1K-1K-1K
FMS-10S	1K-9-9-9-9-9-9-9-1K
FMS-10SA	1K-1K-1-1-1-1-1K-1K-1K-1K
FMS-10SB	1K-1K-1K-1K-1-1-1-1-1K-1K
FMS-10SC	10-10-10-1Y-1Y-1Y-1Y
FMS-10SD	1K-1K-1K-1K-1K-1K-1-1-1-1K
FMS-10SE	1B-1B-1B-10-10-10-1K
FMS-10SF	1K-1K-1B-1B-1K-1K-1K-1K-1K
FMS-10SG	1-1-1-1-1K-1K-1-1-1-1K
FMS-10SH	1-1-1K-1K-1-1-1-1K-1K-1K
FMS-10SI	10-1-10-1-1-1-1-1
FMS-10SJ	#6-6-6-6-24#-#6-6-6-6-24#
FMS-10SK	2K-2K-2K-2K-2K
FMS-10SL	1-1-1K-1K-1K-1K-1K-1K-1Y-1K
FMS-10SM	10-10R-10B-1K-1-1B-1K
FMS-10SN	1N-1N-1N-10-10-10-1
FMS-10SO	#10#-#10#-#10#-#10#-#10#
FMS-10SP	6-6-6-9-6-6-6-9-1K-1
FMS-10SQ	1G-1G-1G-1G-1G-1G-1G-1G-1G
FMS-10SR	1W-1W-1W-1W-1W-1W-1W-1W-1W
FMS-10SS	1B-1B-1W-1W-1W-1W-1W-1W-1W
FMS-10ST	1W-1W-1Y-1Y-1Y-1Y-1Y-1G-1G
FMS-10SU	1B-1B-1B-10-10-10-1
FMS-10SV	1K-1K-1K-1K-1K-1K-1K-16
FMS-10SW	1-24-1-24-1B-1B-1B-1B-1B
FMS-10SX	1K-1-1-1-1-1K-1K-1K-1K-1K
FMS-10SY	1-1-1-1-1-1Y-1Y-1Y-1K-1W
FMS-10SZ	10-10-10-9-10-9
FMS-10T	9-9-9-9-9-9-9-9-1K
FMS-10TA	1K-1K-1-1-1-1B-1-1-1-1
FMS-10TB	1-1B-1-10-10-10-1
FMS-10TC	1K-1K-1K-1K-1-1-1-1B-1-1
FMS-10TD	1K-1K-1-1-1B-1-1-1-1-1
FMS-10TE	2K-2K-#1K-1K-1K-1K#-2K
FMS-10U	10-10-10-2-2
FMS-10V	1B-1B-1B-10-10-10-1B

Part No. 10 POLE Cont.	ARRANGEMENT
FMS-10W	90-90-90-90-90
FMS-10X	16K-16K-2-2
FMS-10Y	9-9-9-10-10-10-9
FMS-10Z	1K-1K-1-1-1-1-1-1-1-1

FMS 14 POLE Base

6 POLE	ARRANGEMENT
FMS14-06C	10-10-10-26-26-26-26-26-26-26

11 POLE

FMS14-11A	1-1-1-1-1-1-1-1-1-1-26-26-26
FMS14-11B	10-10-10-10-1B-1B-1B-26-26-26
FMS14-11C	26-26-26-10-10-10-2-16
FMS14-11D	1-1-1K-1K-1K-10-10-10-26-26-26
FMS14-11E	1-1-1-10-10-10-1-1-26-26-26
FMS14-11F	10-10-10-10-1-90Y-26-26-26

12 POLE

FMS14-12A	1-1-1-1-1-1-1-1-1-1-1-26-26
FMS14-12A1	1K-1K-1K-1K-1K-1K-1K-1K-1K-1K-26-26
FMS14-12B	#10-10-10#--26-26-#10-10-10#
FMS14-12C	1-1-1-1W-26-26-10-10-10-10
FMS14-12D	10-10-10-10-1-1-1K-1K-26-26
FMS14-12E	26-10-10-10-10-1-1-1-1-26
FMS14-12F	10-10-10-10-1B-1B-1B-26-26
FMS14-12G	1B-1B-1B-1B-1B-2B-1B-1B-26-26
FMS14-12H	10-10-10-10-10-10-26-26
FMS14-12I	1-1-1-10-1-10-1-10-1-26-26
FMS14-12J	1-1-1-1-10-10-10-1-1-26-26
FMS14-12K	1-10-1-10-1-10-1-1-1-26-26
FMS14-12L	10-10-10-1-1-1-1-26-26-2KW
FMS14-12M	1-10-1-10-1-10-10-26-26
FMS14-12N	10-10-10-26-26-10-10-10
FMS14-12P	1-1-1-1-10-10-10-10-26-26
FMS14-12Q	1K-1K-1K-24-10-10-10-10-26-26
FMS14-12R	1K-1K-1K-1-1-1-1-1-1-1-1K-26-26
FMS14-12S	1B-1B-1B-10-10-10-1B-26-26-1B-1B
FMS14-12T	10-10-10-26-10-10-10-26
FMS14-12V	1K-1K-1K-1-1-1-1-1-1-1-26-26

13 POLE

FMS14-13A	1-1-1-1-1-1-1-1-1-1-1-1-26
FMS14-13B	10-9-10-10-10-9-16-26
FMS14-13C	10-10-10-1-1-1-1-1-1-26
FMS14-13D	10-10-10-26-1-10-10-10

14 POLE

FMS14-14A	1-1-1-1-1-1-1-1-1-1-1-1-1
FMS14-14AB	1K-1K-2K-1-1Y-1B-1W-10R-10Y-10B
FMS14-14AC	2K-1-1Y-1B-1W-10R-10Y-10B-10W
FMS14-14AD	1B-1B-1B-1B-1B-10-10-10-10
FMS14-14AE	10-10-10-10-1B-1B-1B-1B-2B
FMS14-14AF	1K-1K-1K-1K-1K-1K-1K-10-10-10
FMS14-14AG	1-1-1-24-1W-1W-1-1G-10-10-10
FMS14-14AH	2K-2K-2K-2K-2K-2K-1-1
FMS14-14AJ	1-1-1-10-10-10-10-1-1-1
FMS14-14AK	1K-1K-1K-1K-1K-1K-10-10-10-9
FMS14-14AL	10E-10E-10E-1B-1B-1B-10E-10E-1B
FMS14-14AM	10E-10E-10E-10E-1B-10E-10E-1B
FMS14-14AN	10-10-10-10-2Y-2-1-1
FMS14-14AP	1K-1K-1-1-1K-1K-1K-10-10-10-9

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

STATES

FRONT VIEW

Part No. 14 POLE Cont.	ARRANGEMENT
FMS14-14AQ	1-1-1-1B-1B-1B-10-10-10-10
FMS14-14AR	10-10-10-1K-1K-1K-1K-1-1-1-1
FMS14-14AS	13B-13B-13B-1B-1B-1B-1B-1B-1B-1B
FMS14-14AT	10-10-10-1-1-1-1-1-1-1-1
FMS14-14AU	1-1K-1K-10-10-10-9-10-1K-1K
FMS14-14AV	1-1-1-1-1-9-10-10-10-10
FMS14-14AW	9-10-10-10-9-10-10-10
FMS14-14AX	1Y-1Y-1-1-1-1-10-10-10-10
FMS14-14AY	1-1-1-1-10-10-10-10-10
FMS14-14AZ	1-1-1K-1K-1K-1K-1K-1K-1K-1K-1K-1K-1K
FMS14-14A1	1K-1K-1K-1K-1K-1K-1K-1K-1K-1K-1K-1K
FMS14-14B	2-2-2-2-2-2-2
FMS14-14BA	1-10-1-10-1-10-1-10-10
FMS14-14BB	10E-10E-10E-10E-10E-1K-1K-1
FMS14-14BC	10E-10E-10E-10E-10E-10E-1K-1
FMS14-14BD	1Y-1Y-1Y-1Y-1Y-1Y-1Y-1Y-1Y-1Y-1Y-1Y
FMS14-14BE	2K-2K-2K-#1K-1K-1K-1K-#2K-2K
FMS14-14BF	1-1-1-1K-1K-1K-10-10-10-10
FMS14-14BG	10-10-10-10-1B-1B-1B-1B-1B-1B
FMS14-14BH	1K-1K-1K-1-1-1-1-1-1-1-1-1-1-1-1
FMS14-14BI	10-10-10-10-10-10-1B-1B
FMS14-14BJ	1B-1B-10-10-10-10-10-10
FMS14-14BK	10-10-10-10B-1K-1K-1K-1-1-1
FMS14-14BL	1B-1B-1B-1B-1B-1B-1B-1B-1B-1B-1B-1B
FMS14-14BM	1-1-1-1-1-1-1B-1B-1B-1B-1B-1B-1B
FMS14-14BN	1K-1K-1K-1-1-1-1-1-1-1-1-1-1-1-1
FMS14-14BO	1K-1K-1K-1K-10-10-10-1K-1K-1K-1K
FMS14-14BP	1K-1K-1K-10-10-10-1K-1-1-1-1
FMS14-14BQ	1B-1B-1B-10-10-10-10-1B-1-1
FMS14-14BR	10-10-10-1K-1K-10-10-10
FMS14-14BS	1-1-1-1-1K-1K-1K-1K-1K-1K-1K-1K-1K
FMS14-14BT	2K-2K-2K-2K-2K-2K-2K
FMS14-14BU	10-10-10-10-1B-1E-1Y-1G-1K-1
FMS14-14BV	10-10-10-9-10-10-10-9
FMS14-14BW	1K-1K-1K-10-10-10-10-1K-1-1
FMS14-14BX	1K-1K-1K-1K-1K-1K-1K-1K-1K-1-1-1-1
FMS14-14C	1-1-1-10-10-10-1-1-1-1-1
FMS14-14CA	1-1-2K-16K-10-10-10-1K
FMS14-14CB	1K-1K-1K-1K-10-10-10-10-10
FMS14-14CC	10R-10R-10R-1B-1B-1B-10R-24-1E-1E
FMS14-14CD	1K-1B-1-1E-10-10B-10R-10E-1K-1K
FMS14-14CE	10-10-10-1K-1K-1K-1K-1K-1K-1K
FMS14-14CF	10-10-10-10-10-10-1K-1K
FMS14-14CG	2Y-2Y-2Y-2Y-2Y-2Y
FMS14-14CH	10R-10-10B-10R-10-10B-1K-1K
FMS14-14CI	1-1K-1B-1W-10R-10-10B-10W-1K-1K
FMS14-14CJ	1-1-1-10-10-10-1B-1B-1B-1B-1B
FMS14-14CK	10-10-10-10-1K-1K-1K-1K-1K-1K

Part No. 14 POLE Cont.	ARRANGEMENT
FMS14-14CL	10-10-10-1-10-10-10-1
FMS14-14CM	1B-1B-1B-1B-10-10-10-10-1-1
FMS14-14CN	1-1-1-1-1E-1E-1Y-1Y-1Y-1Y-1W-1W-1W-1W
FMS14-14CO	1-1-1-1-1-1-1Y-1Y-1Y-1Y-1W-1W-1W-1W
FMS14-14CP	1K-1K-1K-1K-10-10-10-10-1K-1K
FMS14-14CQ	1-1-1-1-1-1-1-1-1K-1K-1K-1K-1K-1K
FMS14-14D	1K-1K-1K-1K-1K-1K-10-10-10-10
FMS14-14E	10-10-10-10-10-10-1-1
FMS14-14F	10-10-10-10-1-1-1-1-1-1
FMS14-14G	10-10-10-10-10-10-10
FMS14-14GH	1K-1K-1K-1K-10-10-10-10-1-1
FMS14-14GI	10-10-10-10-1K-1K-1K-1K-1-1
FMS14-14GJ	1-10-10-10-10-10-10-1
FMS14-14GK	1-#10#-#10#-#10#-#10#-#10#-#10#-1
FMS14-14GL	10-10-10-10-1-1-1K-1K-1K-1K
FMS14-14GM	10-10-10-10-1B-1B-1B-1B-2
FMS14-14GN	1-1K-1K-1K-1K-10-10-10-10-9
FMS14-14GO	2K-1E-1E-1E-1E-10R-10Y-10B-10W
FMS14-14GP	1-1-10-10-10-10-10-10
FMS14-14GQ	1-1-1-1-10-10-10-1-1-1-1
FMS14-14GR	10-10-10-1B-1B-1B-1B-1-1-1Y-1Y
FMS14-14GS	10-10-10-1-1-1Y-1Y-1Y-1Y-1Y-1Y
FMS14-14GT	10-10-10-10-1-1Y-1Y-1Y-1Y-1Y
FMS14-14GU	10-10-10-10-1B-1B-1B-1Y-1Y-1Y
FMS14-14GV	10-10-10-1B-1B-1B-1Y-1Y-1Y-1Y-1Y
FMS14-14GW	10-10-10-1-1-1-1-1K-1K-1K-1K
FMS14-14GX	10-10-10-1-1-1-1-1Y-1Y-1Y-1Y
FMS14-14GY	1K-1K-1K-10-10-10-1W-1K-1K-1B-1E
FMS14-14GZ	1-10-1-10-1-10-1-10-1-1
FMS14-14H	1K-1K-10-10-10-10-10-1K-1K
FMS14-14I	10-10-10-10-10-2-2
FMS14-14J	1K-1K-1G-1Y-1B-1B-1-1-1-1-1-1-1
FMS14-14K	1K-1K-1K-10-10-10-1K-1-1K-1K-1K
FMS14-14L	1-1-1-1-1B-1B-10-10-10-10
FMS14-14M	1-1-1-10-10-10-1W-1G-1E-1Y-1B
FMS14-14N	16-1-2-10-10-10-10
FMS14-14P	16-1-10-10-10-10-1B-1B
FMS14-14Q	1-1-1-10-10-10-1-10-1-1
FMS14-14R	10-10-10-10-10-10-2
FMS14-14S	#10#-#10#-#10#-1-#10#-#10#-#10#-1
FMS14-14T	1-10-1-10-1-10-1-10-1-1
FMS14-14U	1K-1K-1K-10-10-10-1K-1K-1K-1K
FMS14-14V	1-1-1-10-10-10-10W-1W-1K-1K
FMS14-14W	1-1-1-1-10-10-10-10-1-1
FMS14-14X	1K-1K-2B-1-1Y-1B-1W-10R-10Y-10B
FMS14-14Y	1K-1K-1K-10-10-10-10-1K-1K-1K
FMS14-14Z	1-1-1-1-1-1-10-10-10-10

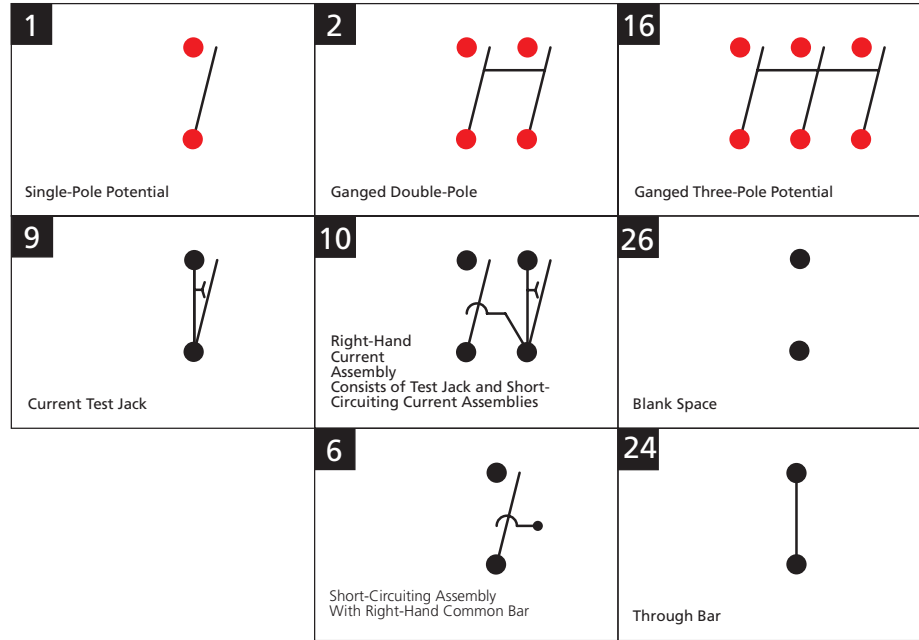
Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

STATES

Refer to this chart for individual elements to customize arrangements not shown on these pages.

NOTES:

1. Barriers are provided between poles of opposite polarity.
2. Potential handles are red and current handles are black unless otherwise specified.
3. Specify adjacent handles to be ganged (yoked) if desired.
4. Black potential blade available. (Use "k" in arrangement, example: 1k/1k/1k)
5. For stud connections add "ST" as suffix. (Example, FMS-O5A-ST)
6. Arrange elements, front view, left to right.



FMS 10 Pole Test Switch with clear cover.

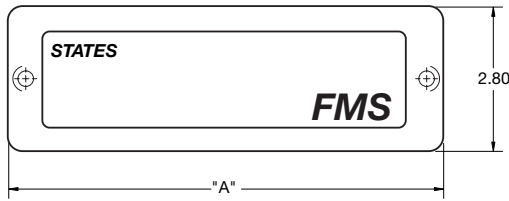


Detailed back view of FMS Test Switch.

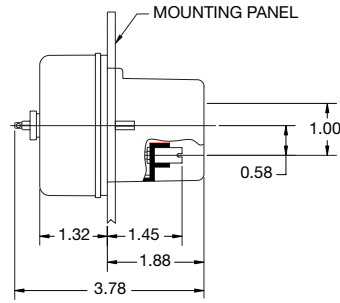
Color Key: **k:** Black **b:** Blue **g:** Green **e:** Orange **r:** Red **w:** White **n:** Brown **y:** Yellow

STATES

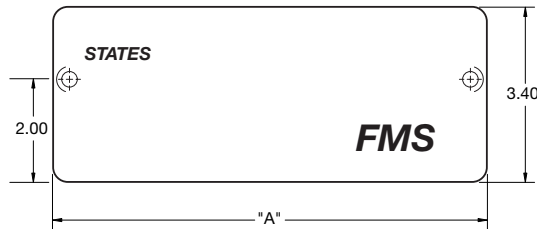
NARROW CLEAR AND BLACK COVERS



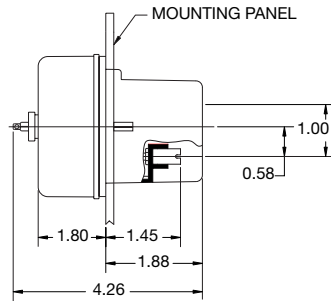
POLE	"A" DIMENSION
10	6.36
14	8.44
30	17.70



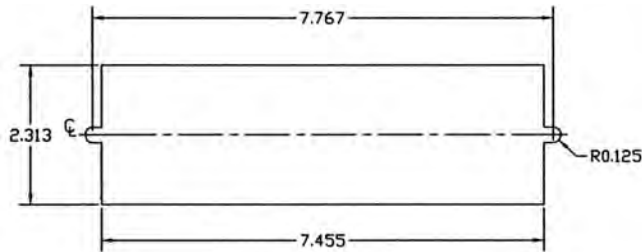
DEEPER, WIDER CLEAR COVER



POLE	"A" DIMENSION
10	6.36
14	8.44
30	17.70

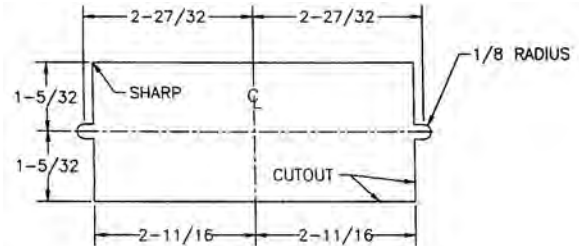


TYPE FMS 14-POLE TEST SWITCH DIMENSIONS (in inches)



Panel cutout for FMS 14-Pole Switch base

TYPE FMS 10-POLE TEST SWITCH DIMENSIONS (in inches)



PANEL CUTOUT FOR FMS SOCKET BASE

Panel cutout for FMS 10-Pole Switch base

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

ORDERING INFORMATION

The part numbers under the arrangements on the preceding pages are for FMS Test Switches with screw terminals. The catalog numbers start with the prefix FMS, followed by a number/letter combination.

Example: FMS-02A.

To order FMS Test Switches with stud terminals

Specify the desired arrangement and add the suffix -ST.

Example: FMS-02A-ST.

To order FMS Test Switches with deeper, wider clear covers

The FMS Test Switches come standard with black covers. To order a deeper, wider clear cover, add the prefix 2 to the part number.

Example: 2FMS-10A.

To order FMS Test Switches with narrow clear covers

The FMS Test Switches come standard with black covers. To order a narrow clear cover, add the prefix 3 to the part number.

Example: 3FMS-10A

To order clear cover kits

Deeper, wider clear cover kits are available to replace existing black covers. For 10-pole units, use Part No. FMSKIT-10 and for 14-pole units, use Part No. FMSKIT-14.

To order the black cover kits

Standard black cover kits are also available. For 10-pole units, use Part No. FMSKIT-10B and for 14-pole units, use Part No. FMSKIT-14B.

To order narrow clear cover kits

Narrow clear cover kits are available to replace existing black covers. For 10-pole units, use Part No. FMSKIT-10N and for 14-pole units, use Part No. FMSKIT-14N

To order the FMS Lockout Kit

Please use Part No. FMSLOCK-1 (can only be used on the deeper, wider, clear covers)

SPECIAL ORDERS

Special Arrangements: In addition to the typical arrangements shown on the preceding pages, special arrangements are available. These can be made of any combination of potential or current elements, with a maximum of 10 or 14 poles. For more information, refer to the following example and illustrations on Page 18.

Example:

To order a customized, 10 or 14-pole Switch, specify:

Switch Type: STATES Type FMS
 No. of poles: 10 or 14-pole Test Switch
 *Arrangement: 1/10/1/10/1/10/1
 Terminal Type: Specify stud or screw terminal
 Cover Type: Black, Clear (deeper, wider or narrow)

***Arrangements should be given as front view of switch, left to right.**

Handle Colors: The standard colors for handles are red for potential and black for current. Handles are also available in other colors.

To specify non-standard colors, add to the element number the appropriate color code:

Color	Color Code	Color	Color Code
Black	k	White	w
Red	r	Green	g
Blue	b	Yellow	y
Orange	e	Brown	n

To order a switch with handles in non-standard colors

You must specify the arrangement with colors indicated. For example, to order a 2-pole switch with special handle colors, specify: **Arrangement: 1y/1y. This replaces the standard red handles with yellow handles.**

Ganged handles

You may specify a yoking bar to gang adjacent handles. For example, to order a switch with the adjacent potentials ganged, you must specify: **Gang all potentials**

Ganging/Yoking kits

Available for 2-14 poles. For example, to order a 2-pole Yoking kit use Part No. 50548-2. To order a 10-pole Yoking kit, use Part No. 50548-10.

OPTIONAL ACCESSORIES

Dual Circuit Plug

By inserting the STATES Dual Circuit Plug (Part No. 15000) into the test jack, safe measurement can be made of current transformer secondary current.



Identification cards

Each switch handle is slotted for insertion of an identification card for marking or coding. Cards are available under Part No. 680001.

Test Paddle

The 10 and 14 pole potential test paddles are feature packed and have been designed to make a test technician's job easier.

Handle – use one hand to connect to test switch

Labeled – locate connector to corresponding switch

Use for STATES FMS Test Switch and ABB FT-1 10 Pole Test Switch.

Part No. V1TP10 - 10 Pole Test Paddle

Part No. FTP14 - 14 Pole Test Paddle

See Accessories on page 67.



STATES

Type FMS 19 Inch Rack Mounting System



FMS 19" Rack with black cover



FMS 19" Rack with clear cover

- Safe, durable, rugged and reliable
- Compact and versatile
- Constructed of 1/8 inch thick brushed aluminum



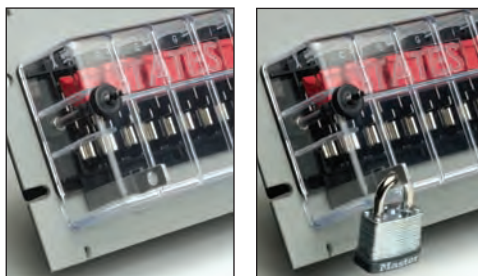
See at a glance if a switch blade is open or closed

FEATURES AND BENEFITS

- No downtime
- Easy access
- Secure
- Use standard plugs
- Safe to use
- Choice of operation
- Cost-saving advantage

COVERS

Both the double and triple rack units come standard with black covers. Optional clear covers, both deeper, wider and narrow, are available. Both cover types completely seal the test switches and are provided with captive nuts and provisions for lock out tags (only on deeper, wider, clear covers). Clear cover kits are also available to replace existing black covers.



STATES clear cover shown above with lock-out option.

STATES

FRONT VIEW 2R-3 (19 x 3.5)

Part No.	Pos A	Pos B	Pos C
192R-310A	FMS- 10A	FMS- BLANK	FMS- BLANK
192R-310AH	FMS- 10AH	FMS- BLANK	FMS- BLANK
192R-310A1	FMS- 10A1	FMS- BLANK	FMS- BLANK
192R-310CH	FMS- 10E1	FMS- BLANK	FMS- BLANK
192R-310HE	FMS- 10HE	FMS- BLANK	FMS- BLANK
192R-310Z	FMS- BLANK	FMS- 10E	FMS- BLANK
192R-314CC	FMS- 04AG	FMS- 10NU	FMS- BLANK
192R-318DC	FMS- 08G	FMS- 10A1	FMS- BLANK
192R-320AB	FMS- 10E	FMS- BLANK	FMS- 10E
192R-320AC	FMS- 10A	FMS- BLANK	FMS- 10A
192R-320AK	FMS- 10JS	FMS- 10JS	FMS- BLANK
192R-320BA	FMS- 10F	FMS- BLANK	FMS- 10A
192R-320BK	FMS- 10C	FMS- 10A	FMS- BLANK
192R-320CE	FMS- 10HE	FMS- 10HE	FMS- BLANK
192R-320CQ	FMS- 10FI	FMS- BLANK	FMS- 10FA
192R-320DB	FMS- 10A1	FMS- 10A1	FMS- BLANK
192R-320DG	FMS- 10F	FMS- BLANK	FMS- 10A1
192R-320DQ	FMS- 10GM	FMS- 10A1	FMS- BLANK
192R-320DV	FMS- 10JS	FMS- BLANK	FMS- 10JR
192R-320DY	FMS- BLANK	FMS- 10A	FMS- 10GT
192R-320EM	FMS- BLANK	FMS- 10FF	FMS- 10FF
192R-320ET	FMS- 10A1	FMS- 10JJ	FMS- BLANK
192R-324BZ	FMS- 08G	FMS- 08G	FMS- 08G
192R-324ED	FMS- 08BD	FMS- 08BD	FMS- 08BD
192R-324S	FMS- 08F	FMS- 06F	FMS- 10A
192R-326DH	FMS- 08G	FMS- 08G	FMS- 10A1
192R-326EW	FMS- 08F	FMS- 08F	FMS- 10A
192R-328BC	FMS- 08AK	FMS- 10F	FMS- 10F
192R-328BE	FMS- 08G	FMS- 10A1	FMS- 10A1
192R-328BY	FMS- 08G	FMS- 10NB	FMS- 10A1
192R-328DA	FMS- 08F	FMS- 10A1	FMS- 10A1
192R-330A	FMS- 10V	FMS- 10A	FMS- 10FC
192R-330AD	FMS- 10JV	FMS- 10JW	FMS- 10A1
192R-330AE	FMS- 10A1	FMS- 10A1	FMS- 10A1
192R-330AF	FMS- 10JH	FMS- 10E	FMS- 10GT
192R-330AG	FMS- 10JX	FMS- 10E	FMS- 10GT
192R-330AH	FMS- 10JH	FMS- 10AH	FMS- 10GT
192R-330AI	FMS- 10GK	FMS- 10JY	FMS- 10A1
192R-330AJ	FMS- 10JZ	FMS- 10E	FMS- 10GT
192R-330AL	FMS- 10JV	FMS- 10JV	FMS- 10JV
192R-330AM	FMS- 10B	FMS- 10B	FMS- 10B
192R-330AN	FMS- 10PG	FMS- 10PG	FMS- 10A1
192R-330AP	FMS- 10PG	FMS- 10PG	FMS- 10PG
192R-330AQ	FMS- 10PG	FMS- 10AH	FMS- 10AH
192R-330AR	FMS- 10KY	FMS- 10E	FMS- 10GT
192R-330AS	FMS- 10KZ	FMS- 10E	FMS- 10GT
192R-330AT	FMS- 10KY	FMS- 10AH	FMS- 10GT
192R-330AU	FMS- 10AB	FMS- 10A	FMS- 10A
192R-330AV	FMS- 10A	FMS- 10A	FMS- 10A
192R-330AW	FMS- 10LD	FMS- 10F	FMS- 10F
192R-330AX	FMS- 10E1	FMS- 10E1	FMS- 10E1
192R-330AY	FMS- 10GK	FMS- 10LG	FMS- 10A1
192R-330AZ	FMS- 10A1	FMS- 10AH	FMS- 10AH
192R-330B	FMS- 10V	FMS- 10A	FMS- 10A1
192R-330BD	FMS- 10GH	FMS- 10LS	FMS- 10A1
192R-330BF	FMS- 10E	FMS- 10A	FMS- 10A
192R-330BG	FMS- 10F	FMS- 10F	FMS- 10AG
192R-330BH	FMS- 10FF	FMS- 10B	FMS- 10A1
192R-330BI	FMS- 10E	FMS- 10E	FMS- 10E
192R-330BJ	FMS- 10E	FMS- 10PV	FMS- 10A
192R-330BL	FMS- 10E1	FMS- 10FA	FMS- 10E1
192R-330BM	FMS- 10D	FMS- 10F	FMS- 10A
192R-330BP	FMS- 10JY	FMS- 10JY	FMS- 10JY
192R-330BQ	FMS- 10MQ	FMS- 10MQ	FMS- 10MS

FRONT VIEW 2R-3 (19 x 3.5) Cont.

Part No.	Pos A	Pos B	Pos C
192R-330BR	FMS- 10F	FMS- 10MT	FMS- 10MU
192R-330BS	FMS- 10V	FMS- 10A	FMS- 10MY
192R-330BT	FMS- 10B	FMS- 10NE	FMS- 10F
192R-330BU	FMS- 10E	FMS- 10GT	FMS- 10E
192R-330BV	FMS- 10E	FMS- 10HE	FMS- 10E
192R-330BW	FMS- 10HE	FMS- 10HE	FMS- 10HE
192R-330BX	FMS- 10E	FMS- 10GT	FMS- 10HE
192R-330C	FMS- 10E	FMS- 10GA	FMS- 10E
192R-330CA	FMS- 10GK	FMS- 10A1	FMS- 10JU
192R-330CB	FMS- 10AB	FMS- 10AB	FMS- 10AB
192R-330CD	FMS- 10FP	FMS- 10X	FMS- 10FP
192R-330CF	FMS- 10FI	FMS- 10A1	FMS- 10A1
192R-330CG	FMS- 10F	FMS- 10G	FMS- 10E1
192R-330CI	FMS- 10NV	FMS- 10NV	FMS- 10NV
192R-330CJ	FMS- 10GS	FMS- 10GS	FMS- 10GS
192R-330CK	FMS- 10JJ	FMS- 10A1	FMS- 10GS
192R-330CL	FMS- 10GM	FMS- 10A1	FMS- 10GS
192R-330CM	FMS- 10A1	FMS- 10GS	FMS- 10GS
192R-330CN	FMS- 10LE	FMS- 10LE	FMS- 10GK
192R-330CP	FMS- 10FM	FMS- 10FM	FMS- 10FM
192R-330CR	FMS- 10E1	FMS- 10A	FMS- 10E1
192R-330CS	FMS- 10E1	FMS- 10A	FMS- 10A
192R-330CT	FMS- 10E4	FMS- 10A	FMS- 10A
192R-330CU	FMS- 10E1	FMS- 10A1	FMS- 10A1
192R-330CV	FMS- 10E1	FMS- 10E1	FMS- 10A
192R-330CW	FMS- 10E	FMS- 10HE	FMS- 10HE
192R-330CX	FMS- 10E	FMS- 10E	FMS- 10F
192R-330D	FMS- 10GP	FMS- 06Q	FMS- 10GA
192R-330DE	FMS- 10FM	FMS- 10A1	FMS- 10A1
192R-330DF	FMS- 10C1	FMS- 10A1	FMS- 10A1
192R-330DI	FMS- 10F	FMS- 10HI	FMS- 10A
192R-330DJ	FMS- 10A1	FMS- 10A1	FMS- 10GS
192R-330DK	FMS- 10E1	FMS- 10E1	FMS- 10A1
192R-330DL	FMS- 10E4	FMS- 10E4	FMS- 10A1
192R-330DM	FMS- 10SL	FMS- 10A1	FMS- 10SM
192R-330DN	FMS- 10E3	FMS- 10SP	FMS- 10JJ
192R-330DO	FMS- 10JJ	FMS- 10FC	FMS- 10GK
192R-330DP	FMS- 10GM	FMS- 10GS	FMS- 10GS
192R-330DR	FMS- 10D	FMS- 10A3	FMS- 10A
192R-330DS	FMS- 10JN	FMS- 10GL	FMS- 10A
192R-330DT	FMS- 10JS	FMS- 10LR	FMS- 10AQ
192R-330DU	FMS- 10JS	FMS- 10AR	FMS- 10AH
192R-330DW	FMS- 10JS	FMS- 10E	FMS- 10JR
192R-330DX	FMS- 10FZ	FMS- 10A	FMS- 10A
192R-330DZ	FMS- 10A	FMS- 10A	FMS- 10GT
192R-330E	FMS- 10GA	FMS- 10A	FMS- 10A
192R-330EA	FMS- 10MQ	FMS- 10MQ	FMS- 10BD
192R-330EB	FMS- 10MQ	FMS- 10BE	FMS- 10BF
192R-330EC	FMS- 10BG	FMS- 10BG	FMS- 10BG
192R-330EE	FMS- 10LW	FMS- 10LW	FMS- 10BP
192R-330EF	FMS- 10HE	FMS- 10HE	FMS- 10BQ
192R-330EG	FMS- 10LW	FMS- 10BR	FMS- 10BS
192R-330EH	FMS- 10A	FMS- 10E	FMS- 10A
192R-330EJ	FMS- 10A	FMS- 10FP	FMS- 10A
192R-330EK	FMS- 10F	FMS- 10A	FMS- 10A
192R-330EL	FMS- 10JS	FMS- 10AR	FMS- 10CE
192R-330EN	FMS- 10F	FMS- 10F	FMS- 10F
192R-330EP	FMS- 10A	FMS- 10A	FMS- 10F
192R-330EQ	FMS- 10FM	FMS- 10A1	FMS- 10FA
192R-330ER	FMS- 10G	FMS- 10A1	FMS- 10A1
192R-330ES	FMS- 10G	FMS- 10G	FMS- 10A1
192R-330EU	FMS- 10G	FMS- 10A1	FMS- 10GM
192R-330EV	FMS- 10JS	FMS- 10FP	FMS- 10AH
192R-330EX	FMS- 10G	FMS- 10G	FMS- 10G

STATES

FRONT VIEW 2R-3 (19 x 3.5) Cont.

Part No.	Pos A	Pos B	Pos C
192R-330F	FMS-10GA	FMS-10A1	FMS-10A1
192R-330G	FMS-10E	FMS-10A	FMS-10E
192R-330H	FMS-10C	FMS-10B	FMS-10B
192R-330HB	FMS-10A1	FMS-10B	FMS-10B
192R-330I	FMS-10PD	FMS-10AH	FMS-10AH
192R-330J	FMS-10PG	FMS-10A1	FMS-10AH
192R-330K	FMS-10AH	FMS-10AH	FMS-10AH
192R-330L	FMS-10PH	FMS-10AH	FMS-10AH
192R-330M	FMS-10G	FMS-10A1	FMS-10A
192R-330MW	FMS-10FA	FMS-10A1	FMS-10A
192R-330N	FMS-10FF	FMS-10A1	FMS-10A
192R-330P	FMS-08AF	FMS-10E	FMS-08AG
192R-330Q	FMS-10V	FMS-10A	FMS-10A
192R-330R	FMS-10F	FMS-10F	FMS-10A
192R-330T	FMS-10E	FMS-10E	FMS-10A
192R-330U	FMS-10GH	FMS-10E	FMS-10GT
192R-330V	FMS-10GK	FMS-10JK	FMS-10A1
192R-330W	FMS-10JQ	FMS-10E	FMS-10JR
192R-330X	FMS-10JS	FMS-10JS	FMS-10JS
192R-330Y	FMS-10JS	FMS-10JS	FMS-10JT

3R-3 (19 x 5.25)

Part No.	Pos A	Pos B	Pos C
193R-300-XX	FMS-BLANK	FMS-BLANK	FMS-BLANK
193R-306AD	FMS-06Q	FMS-BLANK	FMS-BLANK
193R-307AF	FMS-07AD	FMS-BLANK	FMS-BLANK
193R-308KG	FMS-BLANK	FMS-BLANK	FMS-08F
193R-309HZ	FMS-09S	FMS-BLANK	FMS-BLANK
193R-310BG	FMS-10F	FMS-BLANK	FMS-BLANK
193R-310CC	FMS-10FK	FMS-BLANK	FMS-BLANK
193R-310CD	FMS-10A1	FMS-BLANK	FMS-BLANK
193R-310D	FMS-BLANK	FMS-10D	FMS-BLANK
193R-310DK	FMS-BLANK	FMS-10A1	FMS-BLANK
193R-310E1	FMS-10E1	FMS-BLANK	FMS-BLANK
193R-310ES	FMS-BLANK	FMS-10LP	FMS-BLANK
193R-310GS	FMS-BLANK	FMS-BLANK	FMS-10ML
193R-310IA	FMS-BLANK	FMS-BLANK	FMS-10NT
193R-310KP	FMS-10QK	FMS-BLANK	FMS-BLANK
193R-310KW	FMS-10D	FMS-BLANK	FMS-BLANK
193R-310LB	FMS-10JP	FMS-BLANK	FMS-BLANK
193R-310LD	FMS-10LP	FMS-BLANK	FMS-BLANK
193R-310PG	FMS-10PG	FMS-BLANK	FMS-BLANK
193R-310QF	FMS-10BW	FMS-BLANK	FMS-BLANK
193R-310RV	FMS-10EB	FMS-BLANK	FMS-BLANK
193R-310ZP	FMS-BLANK	FMS-BLANK	FMS-10A1
193R-314AG	FMS-07AD	FMS-07AD	FMS-BLANK
193R-314CC	FMS-04AG	FMS-10NU	FMS-BLANK
193R-316AC	FMS-06Q	FMS-BLANK	FMS-BLANK
193R-316AH	FMS-08G	FMS-BLANK	FMS-08G
193R-316EB	FMS-06F	FMS-10D	FMS-BLANK
193R-318DP	FMS-08G	FMS-BLANK	FMS-10A1
193R-318GI	FMS-06V	FMS-06V	FMS-06V
193R-318GL	FMS-06F	FMS-06F	FMS-06F
193R-318KT	FMS-09S	FMS-BLANK	FMS-09S
193R-318KV	FMS-09S	FMS-09S	FMS-BLANK
193R-318KY	FMS-06Q	FMS-06Q	FMS-06Q
193R-320BK	FMS-10E1	FMS-BLANK	FMS-10A1
193R-320BL	FMS-10E1	FMS-BLANK	FMS-10E1
193R-320BP	FMS-10E2	FMS-BLANK	FMS-10A1
193R-320BQ	FMS-10GK	FMS-10GK	FMS-BLANK
193R-320BR	FMS-10A	FMS-10A	FMS-BLANK
193R-320BV	FMS-10E4	FMS-BLANK	FMS-10A1
193R-320BW	FMS-10A1	FMS-BLANK	FMS-10A1
193R-320BY	FMS-10A1	FMS-BLANK	FMS-10E4

FRONT VIEW 3R-3 (19 x 5.25) Cont.

Part No.	Pos A	Pos B	Pos C
193R-320BZ	FMS-10JP	FMS-BLANK	FMS-10JP
193R-320CB	FMS-10FK	FMS-10FK	FMS-BLANK
193R-320CE	FMS-10FK	FMS-10A1	FMS-BLANK
193R-320CL	FMS-10E3	FMS-10A	FMS-BLANK
193R-320CM	FMS-10E2	FMS-10A	FMS-BLANK
193R-320CQ	FMS-10G	FMS-10A1	FMS-BLANK
193R-320CV	FMS-10AD	FMS-BLANK	FMS-10AD
193R-320DG	FMS-10A1	FMS-10E1	FMS-BLANK
193R-320DJ	FMS-BLANK	FMS-10FK	FMS-10A1
193R-320DQ	FMS-04Z	FMS-06AC	FMS-10KX
193R-320EC	FMS-10G	FMS-10LB	FMS-BLANK
193R-320ET	FMS-10E	FMS-BLANK	FMS-10A
193R-320EU	FMS-10E	FMS-BLANK	FMS-10E
193R-320EV	FMS-10E	FMS-BLANK	FMS-10LP
193R-320EZ	FMS-10E1	FMS-10A1	FMS-BLANK
193R-320FI	FMS-10E1	FMS-BLANK	FMS-10LP
193R-320FL	FMS-BLANK	FMS-10F	FMS-10F
193R-320FM	FMS-BLANK	FMS-10A1	FMS-10A1
193R-320FQ	FMS-10AB	FMS-BLANK	FMS-10A
193R-320FZ	FMS-10A	FMS-BLANK	FMS-10A
193R-320GA	FMS-10E	FMS-BLANK	FMS-10KB
193R-320GB	FMS-10E	FMS-10A	FMS-BLANK
193R-320GD	FMS-10E	FMS-10KB	FMS-BLANK
193R-320GF	FMS-BLANK	FMS-10E1	FMS-10A1
193R-320GH	FMS-10A1	FMS-10A1	FMS-BLANK
193R-320GU	FMS-10MM	FMS-10FA	FMS-BLANK
193R-320HW	FMS-10MA	FMS-10MB	FMS-BLANK
193R-320IR	FMS-BLANK	FMS-10NW	FMS-10NW
193R-320JK	FMS-10E1	FMS-10LP	FMS-BLANK
193R-320KS	FMS-10NV	FMS-BLANK	FMS-10NV
193R-320KX	FMS-10F	FMS-10GK	FMS-BLANK
193R-320LM	FMS-10GK	FMS-BLANK	FMS-10F
193R-320ML	FMS-10GM	FMS-BLANK	FMS-10HD
193R-320MX	FMS-10F	FMS-10JK	FMS-BLANK
193R-320MY	FMS-10C1	FMS-10C1	FMS-BLANK
193R-320NH	FMS-10F	FMS-10F	FMS-BLANK
193R-320NJ	FMS-BLANK	FMS-10GS	FMS-10GS
193R-320NY	FMS-10BL	FMS-10BZ	FMS-BLANK
193R-320PD	FMS-10A1	FMS-BLANK	FMS-10E1
193R-320QB	FMS-10BX	FMS-10BY	FMS-BLANK
193R-320QC	FMS-10BI	FMS-BLANK	FMS-10BL
193R-320QD	FMS-10BJ	FMS-BLANK	FMS-10BZ
193R-320QN	FMS-10F	FMS-BLANK	FMS-10A
193R-320QP	FMS-10F	FMS-BLANK	FMS-10F
193R-320QW	FMS-10FF	FMS-BLANK	FMS-10JK
193R-320QX	FMS-10FF	FMS-BLANK	FMS-10FF
193R-320RB	FMS-10CU	FMS-BLANK	FMS-10CU
193R-320RC	FMS-10CU	FMS-10NV	FMS-BLANK
193R-320RN	FMS-10E	FMS-10E	FMS-BLANK
193R-320RQ	FMS-10D	FMS-BLANK	FMS-10D
193R-320XP	FMS-10A	FMS-BLANK	FMS-10A1
193R-321AE	FMS-07AD	FMS-07AD	FMS-07AD
193R-322FG	FMS-06V	FMS-06V	FMS-10F
193R-322FH	FMS-06Q	FMS-06Q	FMS-10A1
193R-322HS	FMS-06AK	FMS-06AK	FMS-10F
193R-322KZ	FMS-08G	FMS-06Q	FMS-08X
193R-324AP	FMS-10E2	FMS-04V	FMS-10A1
193R-324V	FMS-08G	FMS-08G	FMS-08G
193R-324W	FMS-08G	FMS-08AC	FMS-08G
193R-324DY	FMS-08AJ	FMS-08AJ	FMS-08AJ
193R-324HE	FMS-08AQ	FMS-06AK	FMS-10F
193R-324HF	FMS-08AN	FMS-08AN	FMS-08AN
193R-324LR	FMS-08F	FMS-08F	FMS-08F
193R-326CP	FMS-08G	FMS-08G	FMS-10A1

STATES

FRONT VIEW 3R-3 (19 x 5.25) Cont.

Part No.	Pos A	Pos B	Pos C
193R-326DE	FMS- 10E	FMS- 10E	FMS- 06F
193R-326FV	FMS- 10E1	FMS- 06Q	FMS- 10E1
193R-326FX	FMS- 10F	FMS- 10A	FMS- 06Q
193R-326LS	FMS- 10A	FMS- 08F	FMS- 08F
193R-326LU	FMS- 10D	FMS- 10D	FMS- 06A
193R-326MH	FMS- 06H	FMS- 10A1	FMS- 10A1
193R-326QS	FMS- 08F	FMS- 08F	FMS- 10A
193R-327IC	FMS- 09S	FMS- 09S	FMS- 09S
193R-328EE	FMS- 08G	FMS- 10A	FMS- 10A
193R-328GP	FMS- 08AQ	FMS- 10F	FMS- 10F
193R-328HQ	FMS- 08G	FMS- 10NB	FMS- 10A1
193R-328HR	FMS- 08G	FMS- 10A1	FMS- 10ND
193R-328KH	FMS- 10E	FMS- 10E	FMS- 08E
193R-328LK	FMS- 08G	FMS- 10A1	FMS- 10A1
193R-328LT	FMS- 10D	FMS- 10D	FMS- 08F
193R-329GW	FMS- 10F	FMS- 09R	FMS- 10A
193R-330A	FMS- 10A1	FMS- 10B	FMS- 10E1
193R-330AB	FMS- 10PZ	FMS- 10PZ	FMS- 10PZ
193R-330AJ	FMS- 10B	FMS- 10B	FMS- 10B
193R-330AK	FMS- 10GK	FMS- 10JY	FMS- 10A1
193R-330AW	FMS- 10LD	FMS- 10F	FMS- 10F
193R-330B	FMS- 10A1	FMS- 08G	FMS- 08G
193R-330BA	FMS- 10E1	FMS- 10A1	FMS- 10A1
193R-330BB	FMS- 10HR	FMS- 10HR	FMS- 10HR
193R-330BC	FMS- 10A1	FMS- 10A1	FMS- 10E1
193R-330BD	FMS- 10A1	FMS- 10FJ	FMS- 10E1
193R-330BE	FMS- 10FK	FMS- 10FK	FMS- 10E
193R-330BF	FMS- 10D	FMS- 10D	FMS- 10D
193R-330BI	FMS- 10FN	FMS- 10FN	FMS- 10FN
193R-330BJ	FMS- 10GJ	FMS- 10GJ	FMS- 10A1
193R-330BM	FMS- 10E1	FMS- 10FJ	FMS- 10A1
193R-330BN	FMS- 10GK	FMS- 10A	FMS- 10A
193R-330BP	FMS- 10GK	FMS- 10Z	FMS- 10A
193R-330BS	FMS- 10A1	FMS- 10GL	FMS- 10G
193R-330BT	FMS- 10GS	FMS- 10A	FMS- 10JJ
193R-330BU	FMS- 10HR	FMS- 10HR	FMS- 10GS
193R-330BX	FMS- 10A1	FMS- 10A1	FMS- 10GK
193R-330C	FMS- 10V	FMS- 10A	FMS- 10A1
193R-330CA	FMS- 10V	FMS- 10A	FMS- 10A
193R-330CB	FMS- 10GA	FMS- 10A	FMS- 10A
193R-330CC	FMS- 10GA	FMS- 10A1	FMS- 10A1
193R-330CD	FMS- 10E4	FMS- 10E4	FMS- 10A1
193R-330CE	FMS- 10E2	FMS- 10A1	FMS- 10E2
193R-330CF	FMS- 10F	FMS- 10A	FMS- 10A
193R-330CG	FMS- 10E3	FMS- 10E2	FMS- 10E2
193R-330CH	FMS- 10E4	FMS- 10A1	FMS- 10A1
193R-330CI	FMS- 10E	FMS- 10A	FMS- 10E
193R-330CJ	FMS- 10E4	FMS- 10E4	FMS- 10E4
193R-330CK	FMS- 10E2	FMS- 10A	FMS- 10A
193R-330CN	FMS- 10FF	FMS- 10A1	FMS- 10A1
193R-330CP	FMS- 10G	FMS- 10FF	FMS- 10FF
193R-330CR	FMS- 10G	FMS- 10FF	FMS- 10G
193R-330CS	FMS- 10G	FMS- 10A1	FMS- 10A1
193R-330CT	FMS- 10C	FMS- 10B	FMS- 10B
193R-330CU	FMS- 10AD	FMS- 10AD	FMS- 10E3
193R-330CW	FMS- 10FK	FMS- 10FK	FMS- 10FP
193R-330CX	FMS- 10FK	FMS- 10FK	FMS- 10FK
193R-330CY	FMS- 10FK	FMS- 10FK	FMS- 10E3
193R-330CZ	FMS- 10A	FMS- 10A	FMS- 10E
193R-330D	FMS- 10V	FMS- 10A	FMS- 10FC
193R-330DA	FMS- 10JP	FMS- 10JP	FMS- 10JP
193R-330DB	FMS- 10GT	FMS- 10GT	FMS- 10GT
193R-330DC	FMS- 10E	FMS- 10E	FMS- 10E
193R-330DF	FMS- 10JU	FMS- 10F	FMS- 10F

FRONT VIEW 3R-3 (19 x 5.25) Cont.

Part No.	Pos A	Pos B	Pos C
193R-330DH	FMS- 10A	FMS- 10E	FMS- 10A
193R-330DI	FMS- 10F	FMS- 10F	FMS- 10A1
193R-330DL	FMS- 10G	FMS- 10A1	FMS- 10A
193R-330DM	FMS- 10FF	FMS- 10FF	FMS- 10FF
193R-330DN	FMS- 10FF	FMS- 10A	FMS- 10A1
193R-330DP	FMS- 10GK	FMS- 10Z	FMS- 10A3
193R-330DR	FMS- 10A	FMS- 10F	FMS- 10F
193R-330DS	FMS- 10E1	FMS- 10E1	FMS- 10E
193R-330DT	FMS- 10GK	FMS- 10E2	FMS- 10E2
193R-330DU	FMS- 10F	FMS- 10F	FMS- 10FK
193R-330DV	FMS- 10E4	FMS- 10E4	FMS- 10GZ
193R-330DW	FMS- 10E4	FMS- 10E4	FMS- 10A
193R-330DX	FMS- 10E4	FMS- 10A	FMS- 10E4
193R-330DZ	FMS- 10E1	FMS- 10JK	FMS- 10A1
193R-330E	FMS- 10V	FMS- 10A	FMS- 10GB
193R-330EA	FMS- 10FF	FMS- 10FF	FMS- 10G
193R-330ED	FMS- 10G	FMS- 10G	FMS- 10G
193R-330EF	FMS- 10E1	FMS- 10E1	FMS- 10FK
193R-330EG	FMS- 10E1	FMS- 10A	FMS- 10A
193R-330EH	FMS- 10E	FMS- 10A	FMS- 10A
193R-330EI	FMS- 10A1	FMS- 10E4	FMS- 10E4
193R-330EJ	FMS- 10G	FMS- 10G	FMS- 10A1
193R-330EK	FMS- 10A	FMS- 10E4	FMS- 10A
193R-330EL	FMS- 10A1	FMS- 10A1	FMS- 10FK
193R-330EM	FMS- 10FK	FMS- 10FK	FMS- 10F
193R-330EN	FMS- 10V	FMS- 10V	FMS- 10A1
193R-330EP	FMS- 10A	FMS- 10E	FMS- 10E
193R-330EQ	FMS- 10A1	FMS- 10E1	FMS- 10E1
193R-330ER	FMS- 10AB	FMS- 10AB	FMS- 10AB
193R-330EW	FMS- 10E	FMS- 10A	FMS- 10LP
193R-330EX	FMS- 10E	FMS- 10LP	FMS- 10A
193R-330EY	FMS- 10A	FMS- 10B	FMS- 10D
193R-330E1	FMS- 10E1	FMS- 10E1	FMS- 10E1
193R-330F	FMS- 10E	FMS- 10GA	FMS- 10E
193R-330FA	FMS- 10B	FMS- 10PK	FMS- 10PL
193R-330FB	FMS- 10FF	FMS- 10A1	FMS- 10FF
193R-330FC	FMS- 10FF	FMS- 10JK	FMS- 10A1
193R-330FD	FMS- 10FX	FMS- 10PQ	FMS- 10Y
193R-330FE	FMS- 10AB	FMS- 10A	FMS- 10A
193R-330FJ	FMS- 10E1	FMS- 10A1	FMS- 10LP
193R-330FK	FMS- 10E1	FMS- 10LP	FMS- 10A1
193R-330FN	FMS- 10HE	FMS- 10HE	FMS- 10HE
193R-330FP	FMS- 10E	FMS- 10E	FMS- 10A
193R-330FR	FMS- 10FF	FMS- 10A1	FMS- 10FA
193R-330FS	FMS- 10G	FMS- 10A1	FMS- 10PU
193R-330FT	FMS- 10A1	FMS- 10GM	FMS- 10A1
193R-330FU	FMS- 10E	FMS- 10E	FMS- 10AF
193R-330FW	FMS- 10FG	FMS- 10E	FMS- 10E
193R-330FY	FMS- 10GN	FMS- 10A	FMS- 10A
193R-330G	FMS- 10G	FMS- 10A1	FMS- 10GM
193R-330GC	FMS- 10E	FMS- 10A	FMS- 10KB
193R-330GE	FMS- 10F	FMS- 10F	FMS- 10HI
193R-330GJ	FMS- 10MA	FMS- 10MB	FMS- 10GT
193R-330GK	FMS- 10A1	FMS- 10A	FMS- 10A
193R-330GM	FMS- 10D	FMS- 10A	FMS- 10D
193R-330GN	FMS- 10AB	FMS- 10A	FMS- 10AB
193R-330GQ	FMS- 10D	FMS- 10F	FMS- 10A
193R-330GR	FMS- 10D	FMS- 10A	FMS- 10A
193R-330GV	FMS- 10C	FMS- 10C	FMS- 10C
193R-330GX	FMS- 10G	FMS- 10A1	FMS- 10GA
193R-330GY	FMS- 10G	FMS- 10A1	FMS- 10MW
193R-330GZ	FMS- 10F	FMS- 10A1	FMS- 10A
193R-330H	FMS- 10F	FMS- 10A1	FMS- 10GM
193R-330HA	FMS- 10F	FMS- 10HZ	FMS- 10A

STATES

FRONT VIEW 3R-3 (19 x 5.25) Cont.

Part No.	Pos A	Pos B	Pos C
193R-330HB	FMS-10GK	FMS-10A1	FMS-10A1
193R-330HC	FMS-10D	FMS-10F	FMS-10F
193R-330HD	FMS-10MZ	FMS-10GK	FMS-10NC
193R-330HG	FMS-10JJ	FMS-10A1	FMS-10HD
193R-330HI	FMS-10FF	FMS-10FF	FMS-10A1
193R-330HJ	FMS-10F	FMS-10F	FMS-10A
193R-330HK	FMS-10GA	FMS-10A1	FMS-10HD
193R-330HL	FMS-10E	FMS-10JG	FMS-10E3
193R-330HM	FMS-10E	FMS-10E	FMS-10E3
193R-330HN	FMS-10E1	FMS-10E1	FMS-10A1
193R-330HP	FMS-10E1	FMS-10E4	FMS-10A1
193R-330HT	FMS-10E1	FMS-10E1	FMS-10A
193R-330HU	FMS-10NL	FMS-10F	FMS-10GU
193R-330HV	FMS-10F	FMS-10F	FMS-10MB
193R-330HX	FMS-10G	FMS-10GL	FMS-10FB
193R-330HY	FMS-10D	FMS-10NS	FMS-10NT
193R-330I	FMS-10E	FMS-10A1	FMS-10A1
193R-330IB	FMS-10NV	FMS-10NV	FMS-10NV
193R-330ID	FMS-10A1	FMS-10A1	FMS-10G
193R-330IE	FMS-10D	FMS-10D	FMS-10A
193R-330IF	FMS-10C	FMS-10C	FMS-10F
193R-330IG	FMS-10AB	FMS-10E	FMS-10E
193R-330IH	FMS-10FI	FMS-10E	FMS-10E
193R-330IJ	FMS-10A	FMS-10HD	FMS-10F
193R-330IK	FMS-10A1	FMS-10G	FMS-10G
193R-330IL	FMS-10GM	FMS-10A1	FMS-10HD
193R-330IM	FMS-10GM	FMS-10A1	FMS-10NW
193R-330IN	FMS-10GM	FMS-10HD	FMS-10HD
193R-330IP	FMS-10HD	FMS-10HD	FMS-10HD
193R-330IQ	FMS-10GM	FMS-10GK	FMS-10NC
193R-330IS	FMS-10FA	FMS-10FA	FMS-10FI
193R-330IT	FMS-10AB	FMS-10AB	FMS-10A
193R-330IU	FMS-10PG	FMS-10A1	FMS-10AH
193R-330IV	FMS-10FI	FMS-10FA	FMS-10FA
193R-330IW	FMS-10E3	FMS-10GA	FMS-10JG
193R-330IX	FMS-10E2	FMS-10E2	FMS-10JG
193R-330IY	FMS-10JG	FMS-10JG	FMS-10JG
193R-330IZ	FMS-10LV	FMS-10HD	FMS-10HD
193R-330J	FMS-10A1	FMS-10A1	FMS-10A1
193R-330JA	FMS-10E2	FMS-10E2	FMS-10G
193R-330JB	FMS-10FM	FMS-10NZ	FMS-10A1
193R-330JC	FMS-10U	FMS-10U	FMS-10HE
193R-330JD	FMS-10KW	FMS-10HE	FMS-10HE
193R-330JE	FMS-10JD	FMS-10HE	FMS-10HE
193R-330JF	FMS-10E2	FMS-10E2	FMS-10A
193R-330JG	FMS-10E4	FMS-10E1	FMS-10A1
193R-330JH	FMS-10GZ	FMS-10A1	FMS-10A1
193R-330JI	FMS-10JV	FMS-10JV	FMS-10JV
193R-330JJ	FMS-10JV	FMS-10JW	FMS-10A1
193R-330JL	FMS-10F	FMS-10F	FMS-10P
193R-330JM	FMS-10A	FMS-10AB	FMS-10A
193R-330JN	FMS-10FI	FMS-10A1	FMS-10A1
193R-330JP	FMS-10A	FMS-10E	FMS-10E3
193R-330JQ	FMS-10MQ	FMS-10QE	FMS-10QC
193R-330JR	FMS-10QF	FMS-10QF	FMS-10QF
193R-330JS	FMS-10MQ	FMS-10MQ	FMS-10QD
193R-330JT	FMS-10QH	FMS-10A1	FMS-10A
193R-330JU	FMS-10Z	FMS-10Z	FMS-10Z
193R-330JV	FMS-10QH	FMS-10E2	FMS-10Z
193R-330JW	FMS-10QI	FMS-10Z	FMS-10Z
193R-330JX	FMS-10E2	FMS-10Z	FMS-10Z
193R-330JY	FMS-10QG	FMS-10QG	FMS-10QG
193R-330JZ	FMS-10QG	FMS-10QG	FMS-10A
193R-330K	FMS-10F	FMS-10A1	FMS-10A1

FRONT VIEW 3R-3 (19 x 5.25) Cont.

Part No.	Pos A	Pos B	Pos C
193R-330KA	FMS-10QI	FMS-10A	FMS-10A
193R-330KB	FMS-10QH	FMS-10QH	FMS-10QH
193R-330KC	FMS-10QG	FMS-10QG	FMS-10QJ
193R-330KE	FMS-10QJ	FMS-10QJ	FMS-10A
193R-330KF	FMS-10QK	FMS-10A	FMS-10A
193R-330KI	FMS-10GT	FMS-10GT	FMS-10F
193R-330KJ	FMS-10QJ	FMS-10QJ	FMS-10QJ
193R-330KL	FMS-10QJ	FMS-10A	FMS-10A
193R-330KM	FMS-10A	FMS-10FG	FMS-10A
193R-330KN	FMS-10E3	FMS-10E3	FMS-10E3
193R-330KQ	FMS-10GK	FMS-10GK	FMS-10A
193R-330KR	FMS-10E2	FMS-10E2	FMS-10E3
193R-330KU	FMS-10PU	FMS-10NH	FMS-10NH
193R-330L	FMS-10F	FMS-10F	FMS-10F
193R-330LA	FMS-10GK	FMS-10A1	FMS-10A
193R-330LC	FMS-10E1	FMS-10A	FMS-10A1
193R-330LE	FMS-10QW	FMS-10QX	FMS-10QY
193R-330LF	FMS-10A1	FMS-10A	FMS-10A1
193R-330LG	FMS-10A	FMS-10A	FMS-10QR
193R-330LH	FMS-10A	FMS-10QR	FMS-10QR
193R-330LI	FMS-10A	FMS-10NH	FMS-10NH
193R-330LJ	FMS-10F	FMS-10P	FMS-10A1
193R-330LN	FMS-10GP	FMS-10V	FMS-10V
193R-330LP	FMS-10GM	FMS-10GS	FMS-10GS
193R-330LQ	FMS-10D	FMS-10PV	FMS-10A
193R-330LV	FMS-10C1	FMS-10C1	FMS-10C1
193R-330LW	FMS-10PV	FMS-10D	FMS-10PV
193R-330LX	FMS-10FP	FMS-10D	FMS-10PV
193R-330LY	FMS-10A	FMS-10A	FMS-10V
193R-330LZ	FMS-10E1	FMS-10A1	FMS-10E1
193R-330M	FMS-10GS	FMS-10A	FMS-10A1
193R-330MA	FMS-10GK	FMS-10LG	FMS-10A1
193R-330MB	FMS-10E4	FMS-10E1	FMS-10E1
193R-330MC	FMS-10MQ	FMS-10RS	FMS-10GT
193R-330MD	FMS-10MQ	FMS-10A	FMS-10RT
193R-330ME	FMS-10GK	FMS-10RU	FMS-10A1
193R-330MF	FMS-10MQ	FMS-10GT	FMS-10GT
193R-330MG	FMS-10A1	FMS-10P	FMS-10A1
193R-330MJ	FMS-10GM	FMS-10HD	FMS-10NW
193R-330MK	FMS-10MQ	FMS-10GT	FMS-10RW
193R-330MM	FMS-10E1	FMS-10E1	FMS-10RZ
193R-330MN	FMS-10E4	FMS-10SA	FMS-10A1
193R-330MP	FMS-10FV	FMS-10A1	FMS-10FV
193R-330MQ	FMS-10SB	FMS-10JJ	FMS-10SB
193R-330MR	FMS-10SC	FMS-10SC	FMS-10NV
193R-330MS	FMS-10F	FMS-10RJ	FMS-10NV
193R-330MT	FMS-10F	FMS-10A3	FMS-10A
193R-330MU	FMS-10SE	FMS-10SF	FMS-10SG
193R-330MV	FMS-10SE	FMS-10SF	FMS-10SH
193R-330MW	FMS-10FA	FMS-10A1	FMS-10A1
193R-330MZ	FMS-10SQ	FMS-10SR	FMS-10NV
193R-330N	FMS-10A	FMS-10A	FMS-10F
193R-330NA	FMS-10D	FMS-10SS	FMS-10ST
193R-330NB	FMS-10F	FMS-10E3	FMS-10A1
193R-330NC	FMS-10F	FMS-10G	FMS-10A1
193R-330ND	FMS-10JJ	FMS-10GS	FMS-10GS
193R-330NE	FMS-10GS	FMS-10GS	FMS-10GS
193R-330NF	FMS-10E1	FMS-10AP	FMS-10A1
193R-330NG	FMS-10AP	FMS-10A1	FMS-10A1
193R-330NI	FMS-10AB	FMS-10FX	FMS-10A
193R-330NK	FMS-10JJ	FMS-10A1	FMS-10GS
193R-330NL	FMS-10FI	FMS-10FI	FMS-10FI
193R-330NN	FMS-10BH	FMS-10BH	FMS-10BV
193R-330NP	FMS-10BN	FMS-10BN	FMS-10BM

STATES

FRONT VIEW 3R-3 (19 x 5.25) Cont.

Part No.	Pos A	Pos B	Pos C
193R-330NR	FMS-10BI	FMS-10BJ	FMS-10BN
193R-330NS	FMS-10BN	FMS-10BN	FMS-10BN
193R-330NT	FMS-10BN	FMS-10BN	FMS-10BU
193R-330NU	FMS-10G	FMS-10LE	FMS-10JK
193R-330NV	FMS-10BH	FMS-10BH	FMS-10BH
193R-330NW	FMS-10BV	FMS-10BV	FMS-10BV
193R-330NX	FMS-10BI	FMS-10BJ	FMS-10BW
193R-330NZ	FMS-10BX	FMS-10BX	FMS-10BX
193R-330P	FMS-10V	FMS-10A	FMS-10GN
193R-330PA	FMS-10CF	FMS-10FC	FMS-10FC
193R-330PB	FMS-10CG	FMS-10FC	FMS-10CH
193R-330PC	FMS-10CI	FMS-10FC	FMS-10CH
193R-330PE	FMS-10PG	FMS-10A1	FMS-10PG
193R-330Q	FMS-10E2	FMS-10A	FMS-10E2
193R-330QA	FMS-10BX	FMS-10BN	FMS-10BU
193R-330QE	FMS-10BX	FMS-10BX	FMS-10BU
193R-330QG	FMS-10PD	FMS-10AH	FMS-10AH
193R-330QH	FMS-10AH	FMS-10AH	FMS-10AH
193R-330QI	FMS-10H	FMS-10AH	FMS-10AH
193R-330QJ	FMS-10PG	FMS-10PG	FMS-10A1
193R-330QK	FMS-10PG	FMS-10PG	FMS-10PG
193R-330QL	FMS-10PG	FMS-10AH	FMS-10AH
193R-330QM	FMS-10PG	FMS-10CB	FMS-10AH
193R-330QR	FMS-10AH	FMS-10PG	FMS-10PG
193R-330QT	FMS-10F	FMS-10JK	FMS-10A1
193R-330QU	FMS-10MQ	FMS-10CM	FMS-10CN
193R-330QV	FMS-10A	FMS-10RT	FMS-10GT
193R-330QY	FMS-10D	FMS-10D	FMS-10NT
193R-330QZ	FMS-10D	FMS-10D	FMS-10CU
193R-330R	FMS-10E2	FMS-10E2	FMS-10E2
193R-330RA	FMS-10FP	FMS-10NV	FMS-10SR
193R-330RB	FMS-10E3	FMS-10E2	FMS-10A
193R-330RD	FMS-10D	FMS-10CU	FMS-10NV
193R-330RE	FMS-10F	FMS-10A	FMS-10A1
193R-330RI	FMS-10AB	FMS-10A	FMS-10DC
193R-330RJ	FMS-10E3	FMS-10E3	FMS-10E2
193R-330RK	FMS-10E	FMS-10E3	FMS-10A
193R-330RL	FMS-10MQ	FMS-10RS	FMS-10BF
193R-330RM	FMS-10DI	FMS-10DJ	FMS-10DK
193R-330RO	FMS-10D	FMS-10GT	FMS-10D
193R-330RP	FMS-10LT	FMS-10A	FMS-10PN
193R-330RR	FMS-10C	FMS-10DU	FMS-10A
193R-330RS	FMS-10DV	FMS-10A1	FMS-10A1
193R-330RT	FMS-10DW	FMS-10SR	FMS-10SR
193R-330RU	FMS-10DZ	FMS-10GS	FMS-10GS
193R-330RW	FMS-10C	FMS-10EC	FMS-10A
193R-330S	FMS-10A	FMS-10A	FMS-10A
193R-330T	FMS-10A	FMS-10A	FMS-10A1
193R-330U	FMS-10E	FMS-10A	FMS-10GA
193R-330V	FMS-10GK	FMS-10JK	FMS-10A1

4R-3 (19 x 7)

Part No.	Pos A	Pos B	Pos C
194R-304MA	FMS-02M	FMS-BLKCVR	FMS-02A
194R-310AJ	FMS-10JJ	FMS-BLANK	FMS-BLANK
194R-310AN	FMS-10A1	FMS-BLANK	FMS-BLANK
194R-310U	FMS-10D	FMS-BLANK	FMS-BLANK
194R-312T	FMS-04W	FMS-04W	FMS-04W
194R-318AF	FMS-10D	FMS-04W	FMS-04W
194R-320AB	FMS-10A1	FMS-BLANK	FMS-10A1
194R-320AK	FMS-10E1	FMS-BLANK	FMS-10E1
194R-320AP	FMS-10E4	FMS-BLANK	FMS-10A1
194R-320AU	FMS-10D	FMS-BLANK	FMS-10D
194R-320AY	FMS-10A	FMS-10A	FMS-BLANK

FRONT VIEW 4R-3 (19 x 7) Cont.

Part No.	Pos A	Pos B	Pos C
194R-320BD	FMS-10NJ	FMS-BLANK	FMS-10A
194R-320BE	FMS-10A	FMS-BLANK	FMS-10A
194R-320BF	FMS-10NK	FMS-BLANK	FMS-10NK
194R-320CQ	FMS-10D	FMS-10A	FMS-BLANK
194R-320FF	FMS-10F	FMS-10F	FMS-BLKCVR
194R-320W	FMS-10E1	FMS-10A1	FMS-BLANK
194R-320X	FMS-10E1	FMS-10E1	FMS-BLANK
194R-320Y	FMS-10E4	FMS-BLANK	FMS-10E4
194R-320Z	FMS-10A1	FMS-10A	FMS-BLANK
194R-320AP	FMS-10E4	FMS-BLANK	FMS-10A1
194R-320AR	FMS-10A1	FMS-08G	FMS-08G
194R-320AS	FMS-10A	FMS-08G	FMS-08G
194R-326E	FMS-08F	FMS-08F	FMS-10A
194R-330A	FMS-10A1	FMS-10A1	FMS-10A1
194R-330AC	FMS-10E1	FMS-10E1	FMS-10E4
194R-330AD	FMS-10E	FMS-10A	FMS-10E
194R-330AE	FMS-10A1	FMS-10E1	FMS-10A1
194R-330AG	FMS-10G	FMS-10G	FMS-10A1
194R-330AH	FMS-10G	FMS-10A1	FMS-10A1
194R-330AI	FMS-10D	FMS-10D	FMS-10D
194R-330AM	FMS-10E1	FMS-10A1	FMS-10E1
194R-330AQ	FMS-10E4	FMS-10A1	FMS-10E4
194R-330AT	FMS-10GK	FMS-10A1	FMS-10A1
194R-330AV	FMS-10AB	FMS-10A	FMS-10A
194R-330AW	FMS-10E2	FMS-10A	FMS-10A
194R-330AX	FMS-10E3	FMS-10A	FMS-10A
194R-330AZ	FMS-10E2	FMS-10E2	FMS-10A
194R-330B	FMS-10A1	FMS-10A1	FMS-10E1
194R-330BA	FMS-10E1	FMS-10E1	FMS-10A1
194R-330BB	FMS-10F	FMS-10A1	FMS-10A1
194R-330BC	FMS-10E4	FMS-10E4	FMS-10E4
194R-330BG	FMS-10A	FMS-10E2	FMS-10E2
194R-330BH	FMS-10F	FMS-10A	FMS-10A
194R-330BI	FMS-10QG	FMS-10A1	FMS-10A1
194R-330BJ	FMS-10QG	FMS-10QG	FMS-10A1
194R-330BK	FMS-10LD	FMS-10F	FMS-10F
194R-330BL	FMS-10FK	FMS-10FR	FMS-10A1
194R-330C	FMS-10D	FMS-10A	FMS-10D
194R-330CM	FMS-10E2	FMS-10E2	FMS-10E2
194R-330CN	FMS-10FF	FMS-10A1	FMS-10A1
194R-330CP	FMS-10E2	FMS-10A1	FMS-10A1
194R-330CR	FMS-10E	FMS-10E	FMS-10E
194R-330CS	FMS-10E4	FMS-10E	FMS-10E
194R-330CT	FMS-10F	FMS-10F	FMS-10F
194R-330CU	FMS-10E4	FMS-10E1	FMS-10A1
194R-330CV	FMS-10F	FMS-10A3	FMS-10A
194R-330CW	FMS-10E1	FMS-10E4	FMS-10A1
194R-330CX	FMS-10A	FMS-10JJ	FMS-10A1
194R-330CY	FMS-10GK	FMS-10JY	FMS-10A1
194R-330CZ	FMS-10B	FMS-10B	FMS-10B
194R-330D	FMS-10D	FMS-10A	FMS-10A
194R-330DA	FMS-10LD	FMS-10F	FMS-10F
194R-330DB	FMS-10A	FMS-10E2	FMS-10A
194R-330DI	FMS-10F	FMS-10HI	FMS-10A
194R-330E	FMS-10F	FMS-10A1	FMS-10F
194R-330F	FMS-10E2	FMS-10E3	FMS-10E3
194R-330G	FMS-10E1	FMS-10A1	FMS-10A1
194R-330H	FMS-10A	FMS-10A	FMS-10A
194R-330I	FMS-10A	FMS-10A	FMS-10E
194R-330J	FMS-10A	FMS-10E	FMS-10E
194R-330K	FMS-10FF	FMS-10FF	FMS-10FF
194R-330L	FMS-10E1	FMS-10JK	FMS-10A1
194R-330M	FMS-10FF	FMS-10FF	FMS-10G
194R-330ME	FMS-10GK	FMS-10RU	FMS-10A1

STATES

FRONT VIEW 4R-3 (19 x 7) Cont.

Part No.	Pos A	Pos B	Pos C
194R-330N	FMS- 10E1	FMS- 10A	FMS- 10E1
194R-330P	FMS- 10E1	FMS- 10E1	FMS- 10E1
194R-330Q	FMS- 10E4	FMS- 10A1	FMS- 10A1
194R-330R	FMS- 10A1	FMS- 10E1	FMS- 10E1
194R-330S	FMS- 10A1	FMS- 10E1	FMS- 10A1
194R-330V	FMS- 10E	FMS- 10A	FMS- 10A

2R-2 (19 x 3.5)

Part No.	Pos A	Pos B
192R-206AZ	FMS- 06A	FMS- BLANK
192R-206N	FMS- 06Q	FMS- BLANK
192R-208AQ	FMS- BLANK	FMS- 08G
192R-210A	FMS- 10A	FMS- BLANK
192R-210AB	FMS- 10JS	FMS- BLANK
192R-210B	FMS- 10B	FMS- BLANK
192R-210BA	FMS- 10F	FMS- BLANK
192R-210H	FMS- BLANK	FMS- 10A
192R-210M	FMS- BLANK	FMS- 10E4
192R-210P	FMS- 10V	FMS- BLANK
192R-210T	FMS- 04U	FMS- 06Y
192R-210Z	FMS- BLANK	FMS- 10E1
192R-210AK	FMS- BLANK	FMS- 10A1
192R-210AL	FMS- BLANK	FMS- 10V
192R-210AM	FMS- BLANK	FMS- 10GA
192R-210AR	FMS- BLANK	FMS- 10GB
192R-210AV	FMS- BLANK	FMS- 10D
192R-210GI	FMS- 10GI	FMS- BLANK
192R-212AY	FMS- 06A	FMS- 06A
192R-212BC	FMS- 06Q	FMS- 06Q
192R-212U	FMS- 07W	FMS- 05L
192R-216J	FMS- 10A1	FMS- 06Q
192R-216L	FMS- 10V	FMS- 06Q
192R-216AN	FMS- 08G	FMS- 08G
192R-216AS	FMS- 08F	FMS- 08F
192R-216AX	FMS- 06A	FMS- 10F
192R-216BN	FMS- 10E	FMS- 06Z
192R-217Q	FMS- 10G	FMS- 07V
192R-218K	FMS- 08G	FMS- 10GA
192R-218AF	FMS- 08G	FMS- 10A
192R-218AG	FMS- 08X	FMS- 10A1
192R-218AP	FMS- 10A1	FMS- 08G
192R-220A	FMS- 10V	FMS- 10A
192R-220B	FMS- 10A1	FMS- 10A1
192R-220C	FMS- 10A1	FMS- 10E
192R-220D	FMS- 10E4	FMS- 10E4
192R-220E	FMS- 10A1	FMS- 10A
192R-220F	FMS- 10A	FMS- 10A
192R-220G	FMS- 10E1	FMS- 10E1
192R-220I	FMS- 10A	FMS- 10GA
192R-220R	FMS- 10F	FMS- 10F
192R-220S	FMS- 10HI	FMS- 10A1
192R-220V	FMS- 10E3	FMS- 10A
192R-220X	FMS- 10E	FMS- 10E
192R-220AB	FMS- 10E	FMS- 10A
192R-220AC	FMS- 10JS	FMS- 10JS
192R-220AD	FMS- 10A	FMS- 10F
192R-220AE	FMS- 10D	FMS- 10A
192R-220AH	FMS- 10AB	FMS- 10AB
192R-220AI	FMS- 10D	FMS- 10D
192R-220AJ	FMS- 10A	FMS- 10E
192R-220AT	FMS- 10C	FMS- 10C
192R-220AU	FMS- 10AD	FMS- 10GS
192R-220AW	FMS- 10A	FMS- 10A
192R-220BB	FMS- 10MQ	FMS- 10MR
192R-220BD	FMS- 10NA	FMS- 10FM
192R-220BE	FMS- 10V	FMS- 10V
192R-220BF	FMS- 10JS	FMS- 10JR

FRONT VIEW 2R-2 (19 x 3.5)

Part No.	Pos A	Pos B
192R-220BG	FMS- 10FM	FMS- 10FM
192R-220BH	FMS- 10SO	FMS- 10SO
192R-220BI	FMS- 10NA	FMS- 10FI
192R-220BJ	FMS- 10AS	FMS- 10AT
192R-220BK	FMS- 10AU	FMS- 10AV
192R-220BL	FMS- 10AS	FMS- 10AW
192R-220BM	FMS- 10Y	FMS- 10A
192R-220BP	FMS- 10E	FMS- 10GZ

3R-2 (19 x 5.25)

Part No.	Pos A	Pos B
193R-206AS	FMS- 06Q	FMS- BLANK
193R-208AD	FMS- BLANK	FMS- 08F
193R-210AH	FMS- 10V	FMS- BLANK
193R-210AK	FMS- BLANK	FMS- 10JJ
193R-210AY	FMS- 10A	FMS- BLANK
193R-210BS	FMS- 10A1	FMS- BLANK
193R-210FW	FMS- BLANK	FMS- 10GA
193R-210G	FMS- BLANK	FMS- 10GN
193R-210P	FMS- BLANK	FMS- 10A1
193R-210T	FMS- BLANK	FMS- 10A
193R-212CA	FMS- 06F	FMS- 06F
193R-212CB	FMS- 04A	FMS- 08G
193R-212CW	FMS- 06Q	FMS- 06Q
193R-216AF	FMS- 06Q	FMS- 10V
193R-216BD	FMS- 08AB	FMS- 08AB
193R-216BZ	FMS- 08F	FMS- 08F
193R-216CJ	FMS- 10A1	FMS- 06Q
193R-216CK	FMS- 10V	FMS- 06Q
193R-216R	FMS- 10GA	FMS- 06Q
193R-216Y	FMS- 06Q	FMS- 10GA
193R-218AO	FMS- 08G	FMS- 10A
193R-218AP	FMS- 08X	FMS- 10A1
193R-218AQ	FMS- 08X	FMS- 10A
193R-218BM	FMS- 10E	FMS- 08G
193R-218BQ	FMS- 08G	FMS- 10E
193R-218BY	FMS- 10A	FMS- 08F
193R-218CM	FMS- 08G	FMS- 10GA
193R-219BJ	FMS- 09U	FMS- 10QA
193R-220A	FMS- 10E1	FMS- 10F
193R-220AB	FMS- 10FN	FMS- 10FN
193R-220AC	FMS- 10GK	FMS- 10GK
193R-220AE	FMS- 10V	FMS- 10V
193R-220AG	FMS- 10D	FMS- 10A
193R-220AI	FMS- 10E1	FMS- 10E1
193R-220AJ	FMS- 10GS	FMS- 10A
193R-220AL	FMS- 10E2	FMS- 10E2
193R-220AM	FMS- 10E1	FMS- 10JJ
193R-220AN	FMS- 10A	FMS- 10GB
193R-220AR	FMS- 10LC	FMS- 10A
193R-220AT	FMS- 10A2	FMS- 10A
193R-220AU	FMS- 10AB	FMS- 10AB
193R-220AV	FMS- 10AB	FMS- 10A
193R-220AW	FMS- 10GA	FMS- 10V
193R-220AX	FMS- 10E1	FMS- 10J
193R-220AZ	FMS- 10A1	FMS- 10MC
193R-220B	FMS- 10A1	FMS- 08G
193R-220BA	FMS- 10A	FMS- 10F
193R-220BB	FMS- 10D	FMS- 10F
193R-220BC	FMS- 10B	FMS- 10C
193R-220BE	FMS- 10JG	FMS- 10JG
193R-220BF	FMS- 10A	FMS- 10B
193R-220BG	FMS- 10B	FMS- 10B
193R-220BH	FMS- 10A	FMS- 10V
193R-220BI	FMS- 10NA	FMS- 10FI
193R-220BK	FMS- 10E	FMS- 10V
193R-220BL	FMS- 10FK	FMS- 10FK

STATES

FRONT VIEW 3R-2 (19 x 5.25) Cont.

Part No.	Pos A	Pos B
193R-220BN	FMS-10GA	FMS-10A
193R-220BP	FMS-10E	FMS-10GB
193R-220BR	FMS-10GP	FMS-10E
193R-220BT	FMS-10D	FMS-10D
193R-220BU	FMS-10QU	FMS-10QU
193R-220BV	FMS-10E	FMS-10A1
193R-220BW	FMS-10GA	FMS-10GA
193R-220BX	FMS-10GE	FMS-10A
193R-220C	FMS-10A1	FMS-10E2
193R-220CC	FMS-10V	FMS-10A1
193R-220CD	FMS-10FM	FMS-10A
193R-220CE	FMS-10F	FMS-10F
193R-220CF	FMS-10A	FMS-10AB
193R-220CG	FMS-10C	FMS-10A3
193R-220CH	FMS-10SR	FMS-10SR
193R-220CI	FMS-10KF	FMS-10A
193R-220CJ	FMS-10A	FMS-10GA
193R-220D	FMS-10V	FMS-10A
193R-220DW	FMS-10HS	FMS-10A
193R-220E	FMS-10A1	FMS-10A1
193R-220F	FMS-10A1	FMS-10A
193R-220H	FMS-10E4	FMS-10E4
193R-220I	FMS-10A	FMS-10GR
193R-220J	FMS-10E	FMS-10E
193R-220K	FMS-10A	FMS-10A1
193R-220L	FMS-10A	FMS-10A
193R-220M	FMS-10A	FMS-10E
193R-220N	FMS-06Q	FMS-10A
193R-220Q	FMS-10GR	FMS-10A
193R-220S	FMS-10GN	FMS-10A
193R-220U	FMS-10A	FMS-10GN
193R-220V	FMS-10A1	FMS-10E1
193R-220W	FMS-10E1	FMS-10A1

FRONT VIEW 3R-2 (19 x 5.25) Cont.

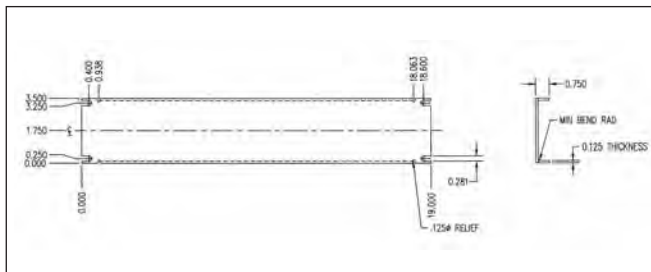
Part No.	Pos A	Pos B
193R-220X	FMS-10E4	FMS-10A1
193R-220Y	FMS-10E	FMS-10A
193R-220Z	FMS-10E	FMS-10GA

4R-2 (19 x 7)

Part No.	Pos A	Pos B
194R-220A	FMS-10E2	FMS-10E2
194R-220AB	FMS-10E2	FMS-10A
194R-220AC	FMS-10F	FMS-10GK
194R-220AD	FMS-10GS	FMS-10GL
194R-220AE	FMS-10GS	FMS-10GS
194R-220AF	FMS-10E1	FMS-10GB
194R-220AI	FMS-10D	FMS-10D
194R-220B	FMS-10E2	FMS-10E3
194R-220C	FMS-10GT	FMS-10GT
194R-220D	FMS-10A	FMS-10A
194R-220E	FMS-10E	FMS-10E
194R-220F	FMS-10A1	FMS-10A1
194R-220G	FMS-10E1	FMS-10E1
194R-220H	FMS-10GM	FMS-10GK
194R-220J	FMS-10GK	FMS-10GK
194R-220K	FMS-10JJ	FMS-10GK
194R-220L	FMS-10A	FMS-10E1
194R-220M	FMS-10E1	FMS-10A1
194R-220N	FMS-10E4	FMS-10E4
194R-220P	FMS-10A	FMS-10E4
194R-220Q	FMS-10E1	FMS-10FR
194R-220R	FMS-10E3	FMS-10E3
194R-220S	FMS-10AB	FMS-10E
194R-220T	FMS-10E	FMS-10QL
194R-220U	FMS-10F	FMS-10F
194R-220V	FMS-10E	FMS-10A
194R-220W	FMS-10F	FMS-10A1

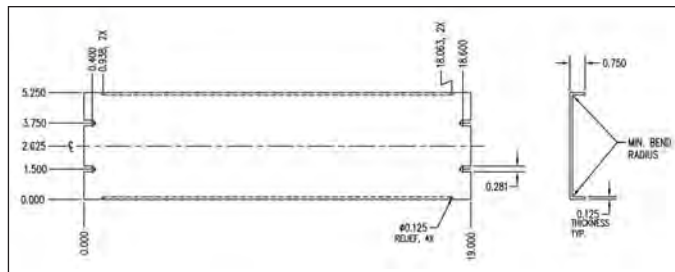
19 x 3.5 in.

DRAWING #51644



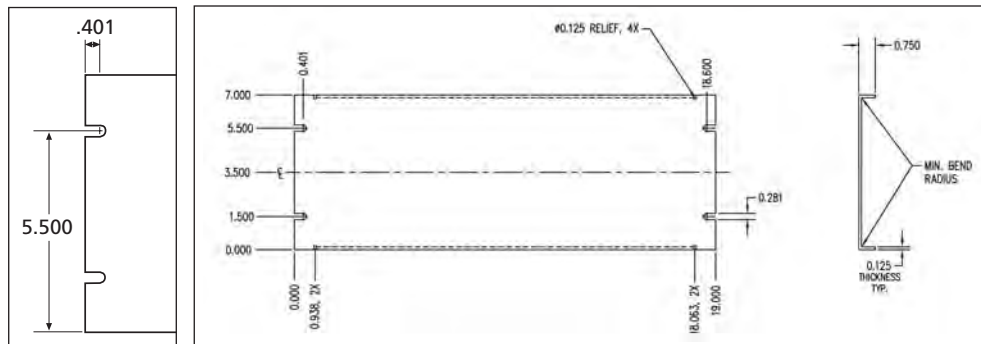
19 x 5.25 in.

DRAWING #51645



19 x 7 in.

DRAWING #720828



Type MTS Miniature Test Switches



- **Compact and versatile**
- **Front- and back-connected styles**
- **Safe, durable, rugged and reliable**
- **Recognized by CUL & UL**
- **Class 1E qualified per IEEE Standard 323-1974**

DESCRIPTION

In many panelboard, switchgear, metering, control circuit and instrumentation applications, space is at a premium. Yet provisions must be made to facilitate troubleshooting, testing, calibration and checkout of relays, meters, transducers, instruments and control systems. STATES Type MTS Miniature Test Switches are the compact, versatile solution for disconnecting and testing these devices and circuits.

They are the result of over 60 years of experience in the design and manufacture of test switches, and make use of the latest improvements in material composition and construction techniques.

Many features are incorporated for increased safety, durability, ruggedness and reliability. All the features you need, including potential elements, current elements and make-before-break short-circuiting elements for current transformer circuits and test jacks, are available in test switches ranging from 1 to 52 poles on one base, and in a miniature size.

Each switch blade can be operated independently or, where required, adjacent handles can be ganged for simultaneous operation.

All Type MTS Test Switches are available in both front- and back-connected styles. Protective covers (available in clear or opaque) are automatically included with all back-connected styles and may be ordered as an optional item with front-connected switches.

CLASS 1E QUALIFIED PER IEEE STANDARD 323-1974

Type MTS Test Switches have successfully completed a generic test program that meets the requirements of most nuclear power plants for Class 1E applications outside containment.

Extensive accelerated-life testing was conducted by an outside, independent firm using thermal aging, mechanical aging, environmental extremes, radiation exposure and seismic simulation to conduct tests.

The service conditions and parameters of the test program included:

- 41-year life at 131° F (55° C), 600 operations, 95% humidity, 2.2 x 10⁸ rads of radiation and 10g maximum acceleration seismic level.
- Recognized by UL and CUL.
- Underwriters Laboratories Inc. recognizes STATES Type MTS Miniature Test Switches under its component program, File No. E75355, with a rating of 600 volts, 30 amperes.

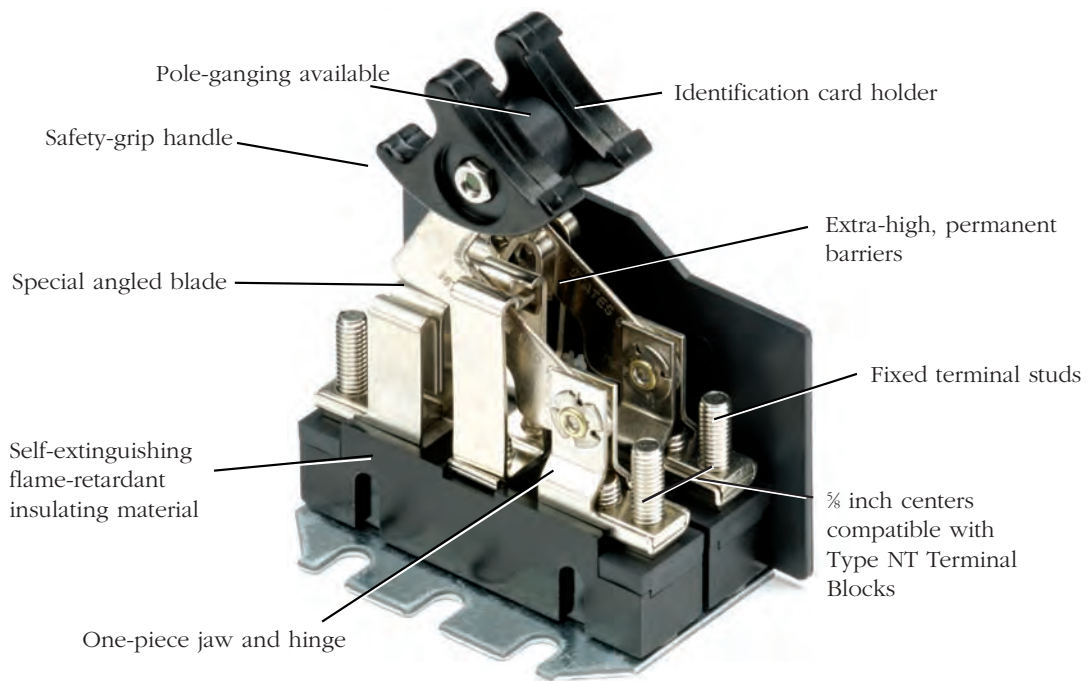


Space-saving miniaturization means full test capability; yet, a Type MTS 10-pole switch requires just 7 inches of mounting space. Unit-pole construction permits virtually any pole arrangement from 1 to 52 poles mounted on a single base.

STATES

FEATURES AND BENEFITS

- **Self-extinguishing materials:** All non-metallic components are made of self-extinguishing, flame-retardant materials with Underwriters Laboratories' best rating for self-extinguishing materials (V-O).
- **Nonferrous material:** All current-carrying metallic components, including hardware, are made of highest quality nonferrous materials such as copper, bronze, brass or phosphor bronze. This ensures excellent conductivity and minimizes galvanic action between dissimilar metals.
- **Nickel plating:** All current-carrying metallic components, including hardware, have a corrosion-resistant nickel finish that ensures good electrical contact and smooth operation of moving parts even after years of inactivity.
- **Safety-grip handle:** A molded handle covers the terminal and includes a lower lip that projects over the metal parts of the switch, thus protecting the operator from contact with live components.
- **One-piece jaw and hinge:** One-piece construction of hinge and jaw eliminates unnecessary, multiple connection points.
- **Special blade shape:** All blades are shaped so that the edge of the blade enters at a right angle to the jaw; thus, the blade enters and exits the full width of the jaw simultaneously.
- **Switch jaws:** All STATES Test Switches have uniform contact pressure over the full width of the blade. The "ping" heard when opening the blade is due to the special, spring-grade phosphor bronze used in the jaw. This design ensures an excellent low-resistance contact that will not overheat.
- **High barriers:** Maximum circuit isolation is obtained by extra-high barriers that provide uncompromised protection. Barriers are permanently mounted and cannot fall out or be knocked out, as in some "snap-in" designs.
- **Short-circuit jaw:** A rugged, make-before-break element is used to short the secondary of a current transformer.
- **Fixed terminal studs:** The screw terminals on which wiring connections are made are a part of a rigid, immovable assembly and cannot be turned or backed out.
- **Test jack:** The test jack eliminates the possibility of opening current transformer secondaries and permits safe, easy measurements to be made in current circuits without disturbing permanent wiring. A dual-circuit test plug, such as the STATES Part No. 15000, inserted into the test jack puts the measuring instrument in series with the current circuit. The test jack does not carry current except when making a test because it is shunted by a standard switch blade that is opened only when the test jack is used.
- **Color-coded handles:** Unless otherwise specified, potential elements have red handles and current elements have black; however, the following other colors are available at additional cost: blue, orange, white, yellow, green.
- **Identification card holder:** Each safety grip handle is slotted for insertion of an identification card for marking or coding. Cards are available under Part No. MTS28.



STATES Type MTS Test Switch

STATES

All configurations are available in either a front- or back-connected style.

FRONT-CONNECTED SWITCHES

The front-connected test switch usually is used where wiring entering and leaving the test switch is located on the same side of the panel that the test switch is mounted.

To order front-connected switches, refer to **Ordering Information**.



Front-connected type

BACK-CONNECTED SWITCHES

All switches can be provided in a back-connected version so that the switch is mounted on one side of a panel and the wiring connections are made on the opposite side.

Back-connected switches have factory-installed insulated barriers that project from the rear of the switch. They include either clear or opaque covers.

To order back-connected switches, refer to **Ordering Information**.



Bottom of Back-connected switch



Back-connected type

STATES

COVERS

STATES Type MTS Test Switches feature rugged, virtually unbreakable covers available in clear or opaque styles. These covers are manufactured from tough, self-extinguishing, flame-retardant polycarbonate. The covers are constructed so

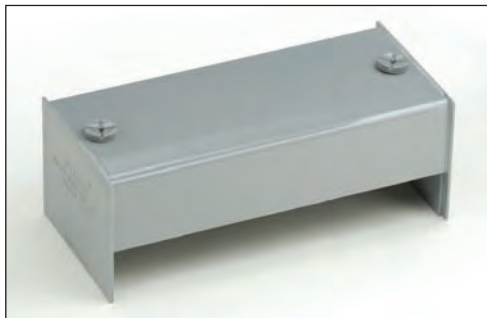
that all switch blades must be closed when the cover is properly sealed. Switches provided with covers include two insulated studs that have holes for wire seals. To add a cover, refer to **Ordering Information**.

COVERS FOR FRONT-CONNECTED SWITCHES

Covers for front-connected switches are open or slotted at the bottom of each side to permit wiring to enter and exit between the cover and the panel.



Slotted, front-connected clear cover



Front-connected opaque (C1) cover



Front-connected clear (C3) cover

COVERS FOR BACK-CONNECTED SWITCHES

A cover is automatically included with a back-connected test switch. However, you must select either a clear or opaque style.



Nonslotted, back-connected clear cover – The nonslotted covers for back-connected switches fit flush with the panel because all wiring exits at the rear of the test switch.



Back-connected opaque (C2) cover



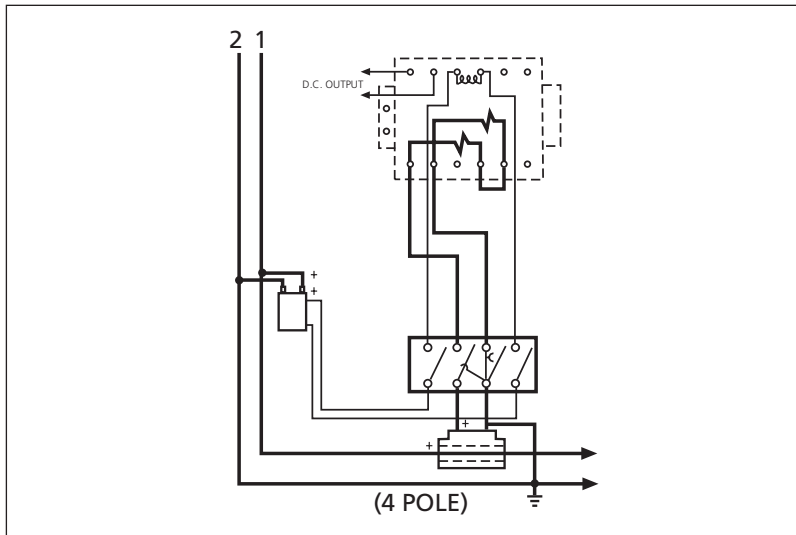
Back-connected clear (C4) cover

Cover style must be specified at order placement

STATES

TYPICAL INSTALLATIONS FOR STATES TYPE MTS TEST SWITCHES

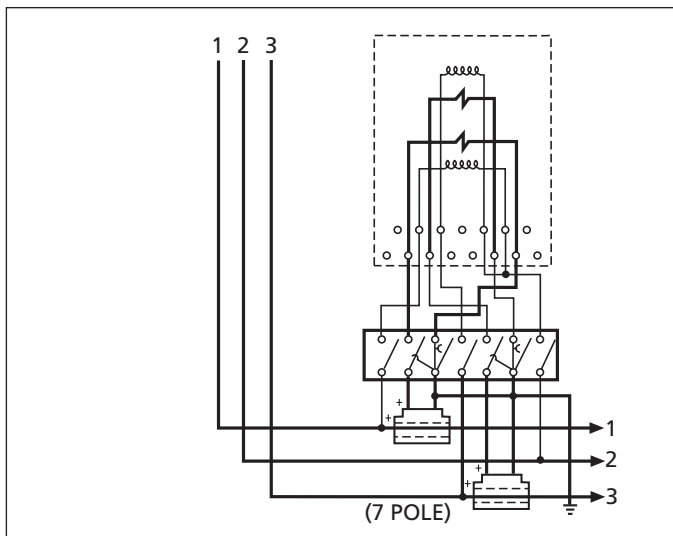
1 ϕ Watt Transducer



4-Pole Test Switch - Part No. 204-N



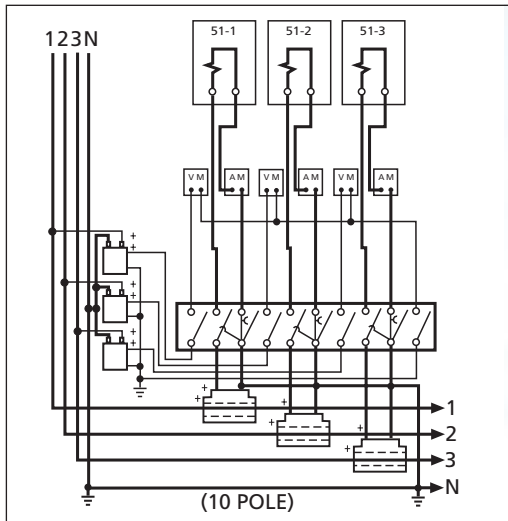
3 ϕ Watthour Meter



7-Pole Test Switch - Part No. 207-K



Overcurrent Relays



10-Pole Test Switch - Part No. 210-E



ORDERING INFORMATION

The part numbers under the arrangements on the following pages are for front-connected switches without covers. These same numbers are also used as the basis for ordering back-connected.

The part numbers are three digits followed by a letter or number combination.

Example: 203-A

1/1/1



203-A

The slashes “/” in the arrangements represent barriers that are installed standard between any adjoining elements of opposite polarity.

To order front-connected switches

Specify the part numbers shown under the arrangements on the following pages.

Example: 210-A

For covers, add the appropriate prefix:

Cover	Prefix
Front-connected, slotted, opaque	C1
Front-connected, slotted, clear	C3

Example: C3-210-A

To order back-connected switches

Specify the desired arrangement and add the suffix -B. All back-connected switches are provided with either a clear or opaque cover. For covers, add the appropriate prefix:

Cover	Prefix
Back-connected, solid, opaque	C2
Back-connected, solid, clear	C4

Example: C4-210-A-B

Special Orders

Special Arrangements: In addition to the typical arrangements shown on the following pages, special arrangements are available. These can be made of any combination of potential or current elements, with a maximum of 52 poles. For more information, refer to the following example and illustrations on Page 40.

To order a customized, 10-pole, back-connected switch with a clear, back-connected cover, specify:

Switch Type: STATES Type MTS

No. of poles: 10-pole test switch

***Arrangement:** 10/2/11/1/16

Style: Back-connected

Cover: Clear, back-connected

Handle Colors: The standard colors for handles are red for potential and black for current. Handles are also available in other colors.

***Arrangements should be given as front view of switch, left to right.**

To specify non-standard colors, add to the element number the appropriate color code:

Color	Color Code	Color	Color Code
Black	k	Red	r
Blue	b	White	w
Green	g	Yellow	y
Orange	e		

To order a switch with handles in non-standard colors, you must specify the arrangement with colors indicated. For example, to order a 10-pole switch with special handle colors, specify: **Arrangement:** 10/10r/10g/10w/1k/1k

Ganged handles: You may specify a yoking bar to gang adjacent handles.

For example, to order a switch with the adjacent potentials ganged, you must specify: **Gang all potentials**

Hinge position: The “U” in an arrangement (next to an element) indicates the hinge is positioned upside down from the typical arrangement.

OPTIONAL ACCESSORIES



Socket Wrench and Insert

To speed installation of the terminal nuts on STATES Test Switches, the socket wrench (Part No. 16028) and 3/8 inch insert (Part No. 16027) are available.

Also available are the 5/16 inch insert (Part No. 16025) for use in installing the terminal nuts on STATES Type Terminal Blocks and STATES Type MTS Test Switches.

The screwdriver attachment (Part No. 16022) makes this wrench your complete meter installation tool.

Dual Circuit Plug

By inserting the STATES Dual Circuit Plug (Part No. 15000) into the test jack, safe measurement can be made of current transformer secondary current.



Jumper Strips

Part No. TBT167 2 Pole Strap

Part No. TBT168 58 Pole Strap

(The TBT168 can be cut to the required length)

This nickel-plated jumper strip is made specially for the STATES Type NT & ZWM Terminal Blocks and the STATES Type MTS Test Switches.



See Accessories on page 67.

STATES

FRONT VIEW 1-POLE



201-A

Color Options: **1k**
201-C
1y
201-D



201-B

2-POLE 1/1



202-A

Color Options: **1k/1k**
202-H
1y/1y
202-D



202-B

2k
202-J



202-C



202-F

Color Option: **11r**
202-L

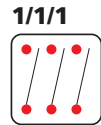


202-E

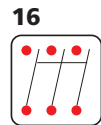
Other 2-Pole
Standard Arrangement:

6-24
202-G

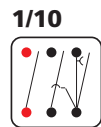
3-POLE



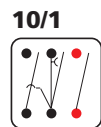
203-A



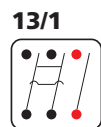
203-D



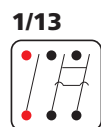
203-B



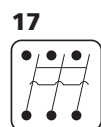
203-C



203-H



203-J



203-E

Other 3-Pole
Standard Arrangements:

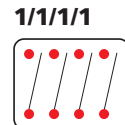
6-6-5
203-K

6-6-24
203-L

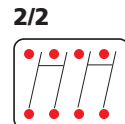
9/9/9
203-F

9/24-5
203-G

4-POLE

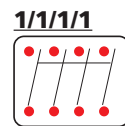


204-A

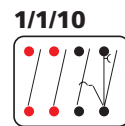


204-D

Color Option: **2k/2k**
204-A2



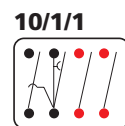
204-E



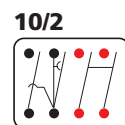
204-F



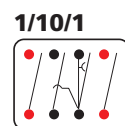
204-J



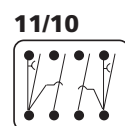
204-K



204-G

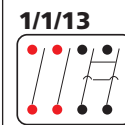


204-N

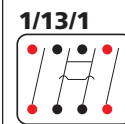


204-Q

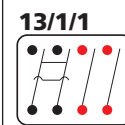
4-POLE (CONT.)



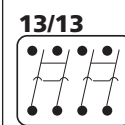
204-B



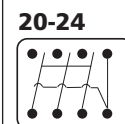
204-L



204-M



204-H



204-C

Other 4-Pole
Standard Arrangements:

1/10/24
204-A3

1/16
204-A5

9/9/9/9
204-R

9/24-14
204-S

11/11
204-W

11b/11e
204-Z

20-9
204-A4

20r-24
204-U

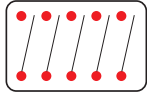
24-19r
204-T

STATES

FRONT VIEW

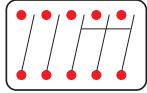
5-POLE

1/1/1/1/1



205-A

1/1/16



205-H

1/1/1/10



205-B

1/1/10/1



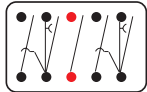
205-C

1/10/1/1



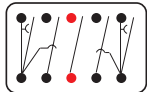
205-D

10/1/10



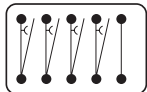
205-F

11/1/10



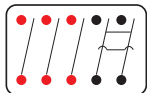
205-G

9/9/9/9/24



205-J

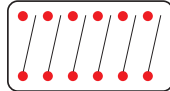
1/1/1/13



205-E

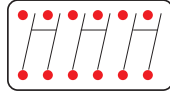
6-POLE

1/1/1/1/1/1



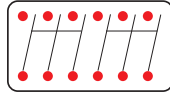
206-A

2/2/2



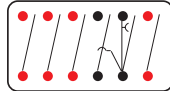
206-D

16/16



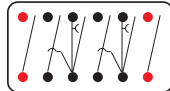
206-E

1/1/1/10/1



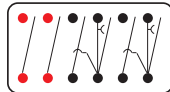
206-F

1/10/10/1



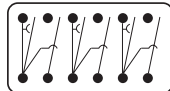
206-G

1/1/10/10



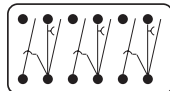
206-J

11/11/11



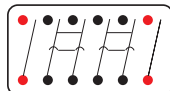
206-K

10/10/10



206-C

1/13/13/1



206-H

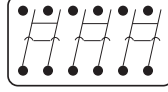
6-Pole (CONT.)

1/1/13/13



206-S

13/13/13



206-B

Other 6-Pole
Standard Arrangements:

1/1/1/1/1/1

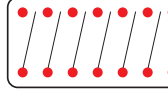
206-P

2/2/13

206-L

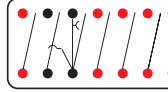
7-POLE

1/1/1/1/1/1/1



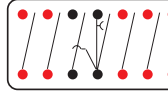
207-A

1/10/1/1/1/1



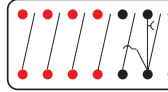
207-G

1/1/10/1/1/1



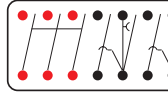
207-F

1/1/1/1/10/1



207-H

16/10/10



207-J

7-Pole (CONT.)

1/10/1/10/1



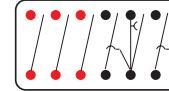
207-K

1/10/1/11/1



207-B

1/1/1/10/10



207-C

Color Option:

1k/1k/1k/10/10

207-P

1/1/1/10/11



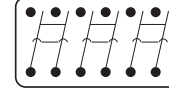
207-E

1/13/1/13/1



207-D

13/13/13/9



207-L

Other 7-Pole
Standard Arrangements:

#1/1/1/1/1/1/1#

207-M

1/1/1/1/11/11

207-Q

1/6-1-6-9-9/1

207-N

6-6-6-6-6-6-24

207-S

9/9/9/24-19

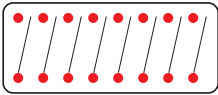
207-R

STATES

FRONT VIEW

8-POLE

1/1/1/1/1/1/1/1



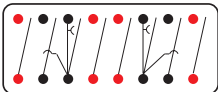
208-D

1/1/1/10/1/1/1



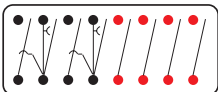
208-E

1/10/1/1/11/1



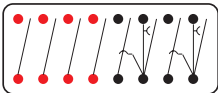
208-A

10/10/1/1/1/1



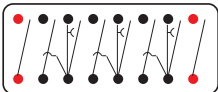
208-B

1/1/1/1/10/10



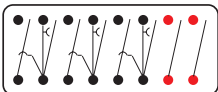
208-G

1/10/10/10/1



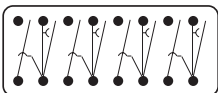
208-K

10/10/10/1/1



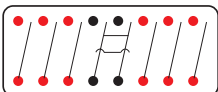
208-L

10/10/10/10



208-P

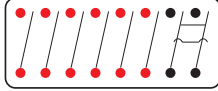
1/1/1/13/1/1/1



208-Q

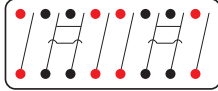
8-Pole (CONT.)

1/1/1/1/1/1/1/3



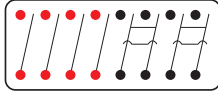
208-C

1/13/1/1/13/1



208-H

1/1/1/1/13/13



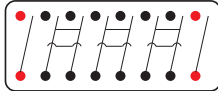
208-J

16/24/13/13



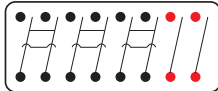
208-F

1/13/13/13/1



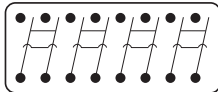
208-M

13/13/13/1/1



208-N

13/13/13/13



208-W

Other 8-Pole
Standard Arrangements:

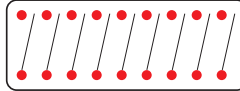
#1/1/1/1/1/1/1/1#
208-T

1/6-1-6-9-1-9/1
208-R

2/2/2/2
208-S

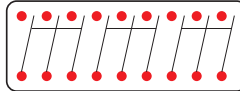
9-POLE

1/1/1/1/1/1/1/1/1



209-A

16/16/16



209-B

1/1/1/10/10/10



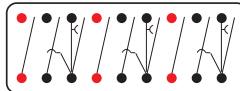
209-U

16/10/10/10



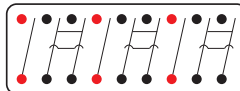
209-E

1/10/1/10/1/10



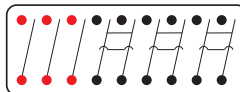
209-K

1/13/1/13/1/13



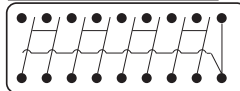
209-H

1/1/1/13/13/13



209-D

6-6-6-6-6-6-6-24



209-C

Other 9-Pole
Standard Arrangements:

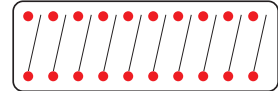
1/1/24/10/10/10
209-F

9/9/9/9/9/9/9/1
209-G

11/9/11/9/11/9
209-J

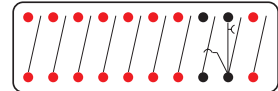
10-POLE

1/1/1/1/1/1/1/1/1/1



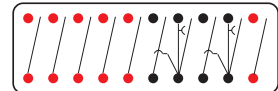
210-A

1/1/1/1/1/1/1/10/1



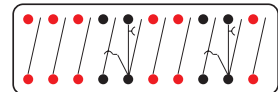
210-B

1/1/1/1/1/10/10/1



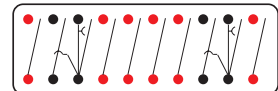
210-C

1/1/1/10/1/1/10/1



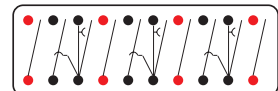
210-D

1/10/1/1/1/1/10/1



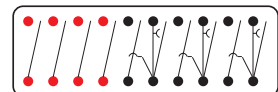
210-F

1/10/1/10/1/10/1



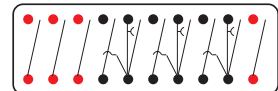
210-E

1/1/1/1/10/10/10



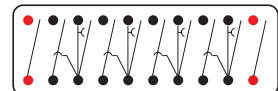
210-H

1/1/1/10/10/10/1



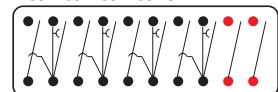
210-J

1/10/10/10/10/1



210-K

10/10/10/10/1/1



210-L

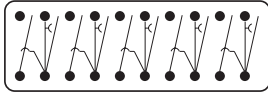
Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White y: Yellow

STATES

FRONT VIEW

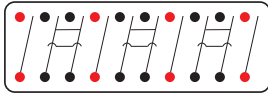
10-Pole (CONT.)

10/10/10/10/10



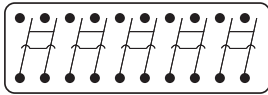
210-M

1/13/1/13/1/13/1



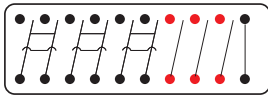
210-G

13/13/13/13/13



210-N

13/13/13/1/1/1/24



210-P

Other 10-Pole
Standard Arrangements:

1/1/1/24/10/10/10
210-T

1/1/1/24/13/13/13
210-AA

1/10/1/10/1/10/24
210-R

2/2/2/2/2
210-Y

9/9/9/9/9/9/9/9/9/9
210-Q

9/9/9/9/24-5-5-5-5-5
210-V

9/9/9/24#-19-19#
210-U

10/10/10/1/1/1/1
210-W

13/13/13/13/13
210-X

1/1/1/1/9-5-9-5-9-5
210-S

11-POLE

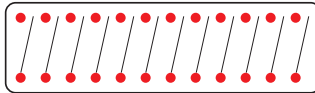
1/1/1/1/1/1/1/1/1/1/1
211-A

10/10/9/10/9/9/2
211-C

13/13/1/1/1/1/1/1/1
211-B

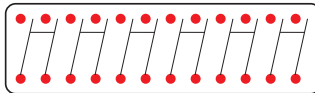
12-POLE

1/1/1/1/1/1/1/1/1/1/1/1



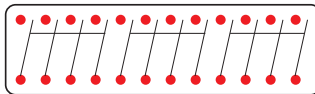
212-A

2/2/2/2/2/2



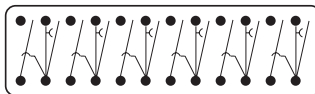
212-B

1/1/1/1/1/1/1/1/1/1/1/1



212-C

10/10/10/10/10/10



212-D

Other 12-Pole
Standard Arrangements:

1/1/10/1/10/1/10/1/1
212-F

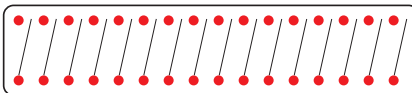
1/10/1/10/1/10/1/10
212-E

9/9/9/9/9/9/9/9/9/16
212-H

13/13/13/13/13/13
212-G

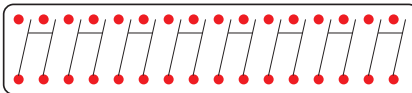
16-POLE

16 - #1 elements



216-A

8 - #2 elements



216-B

Other 16-Pole
Standard Arrangements:

1/1/1/1/13/13/1/1/1/1/1/1/1
216-D

1/1/1/24/10/10/10/10/10/10
216-C

21-POLE

21 - #1 elements

221-A

13/13/13/24/13/13/13/24/13/13/13/24
221-B

24/13w/13g/13k/24/13w/13g/13k/24/13w/13g/13k
221-C

13k/13g/13w/24/13k/13g/13w/24/13k/13g/13w/24
221-D

22-POLE

22 - #1 elements

222-A

2/2/2/2/2/2/2/2/2/2/2/2
222-B

24-POLE

24 - #1 elements

224-A

12 - #2 elements
224-B

12 - #13 elements
224-E

26-POLE

26 - #1 elements

226-A

26 - #1k elements
226-K

40-POLE

40 - #1 elements

240-A

20 - #13 elements
240-B

52-POLE



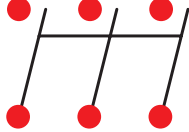
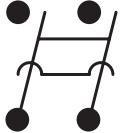
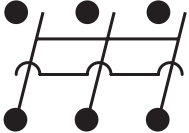


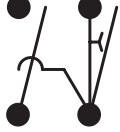
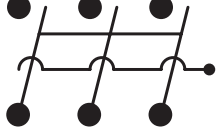


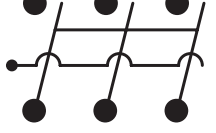






52 - #1 elements

252-A

26 - #13 elements
252-B

STATES

ELEMENTS FOR CUSTOMIZED SWITCHES NOT LISTED UNDER TYPICAL ARRANGEMENTS

<p>1</p>  <p>Single-Pole Potential</p>	<p>2</p>  <p>Ganged Double-Pole Potential</p>	<p>16</p>  <p>Ganged Three-Pole Potential</p>
<p>13</p>  <p>Ganged Two-Pole Short-Circuiting Current Assembly</p>	<p>17</p>  <p>Ganged Three-Pole Short-Circuiting Current Assembly</p>	<p>9</p>  <p>Current Test Jack</p>
<p>6</p>  <p>Short-Circuiting Assembly With Right-Hand Common Bar</p>	<p>10</p>  <p>Right-Hand Current Assembly Consists of Test Jack and Short-Circuiting Current Assemblies</p>	<p>20</p>  <p>Ganged Three-Pole Short-Circuiting Current Assembly, Right Extension</p>
<p>5</p>  <p>Short-Circuiting Assembly With Left-Hand Common Bar</p>	<p>11</p>  <p>Left-Hand Current Assembly Consists of Test Jack and Short-Circuiting Current Assemblies</p>	<p>19</p>  <p>Ganged Three-Pole Short-Circuiting Current Assembly, Left Extension</p>
<p>90</p>  <p>Right-Hand Short-Circuiting Assembly Ending at a Terminal</p>	<p>91</p>  <p>Left-Hand Short-Circuiting Assembly Ending at a Terminal</p>	<p>24</p>  <p>Through Bar</p>
<p>25</p>  <p>600-Volt Fuse Holder</p>	<p>25A</p>  <p>250-Volt Fuse Holder</p>	<p>26</p>  <p>Blank Space</p>

NOTES:

- Barriers are provided between poles of opposite polarity.
- Potential handles are red and current handles are black unless otherwise specified.
- Specify adjacent handles to be ganged (yoked) if desired.
- Arrange elements left to right, front view.
- Element No. 25A accepts standard cartridge fuses rated 250 VAC 30 AMP. **Fuse not included.** Fuse dimensions must be 1/4" diameter and 1 1/4" in length.
- Element No. 25 accepts standard cartridge fuses rated 600 VAC 30 AMP. **Fuse not included.** Fuse dimensions must be 9/32" diameter and 1 1/2" in length.

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White y: Yellow

STATES

Dimensions (in inches)

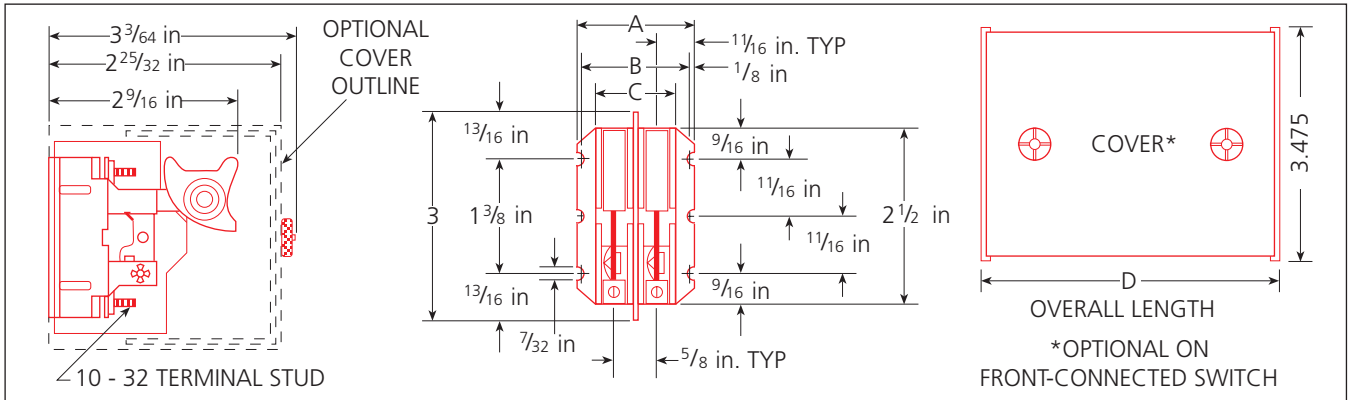
NUMBER OF POLES	A	B	C	D	E
1	1 3/8	1 1/8	9/16	1 13/16	43/64
2	2	1 3/4	1 3/16	2 1/2	1 19/64
3	2 5/8	2 7/32	1 13/16	3 1/8	1 59/64
4	3 1/4	3	2 7/16	3 3/4	2 35/64
5	3 7/8	3 5/8	3 1/16	4 3/8	3 11/64
6	4 1/2	4 1/4	3 11/16	5	3 51/64
7	5 1/8	4 7/8	4 5/16	5 5/8	4 27/64
8	5 3/4	5 1/2	4 15/16	6 1/4	5 3/64
9	6 3/8	6 1/8	5 9/16	6 7/8	5 43/64
10	7	6 3/4	6 3/16	7 1/2	6 19/64
11	7 5/8	7 3/8	6 13/16	8 1/8	6 59/64
12	8 1/4	8	7 7/16	8 3/4	7 35/64
13	8 7/8	8 5/8	8 1/16	9 3/8	8 11/64
14	9 1/2	9 1/4	8 11/16	10	8 51/64
15	10 1/8	9 7/8	9 5/16	10 5/8	9 27/64
16	10 3/4	10 1/2	9 15/16	11 1/4	10 3/64
17	11 3/8	11 1/8	10 9/16	11 7/8	10 43/64
18	12	11 3/4	11 3/16	12 1/2	11 19/64
19	12 5/8	12 3/8	11 13/16	13 1/8	11 59/64
20	13 1/4	13	12 7/16	13 3/4	12 35/64
21	13 7/8	13 5/8	13 1/16	14 3/8	13 11/64
22	14 1/2	14 1/4	13 11/16	15	13 51/64
23	15 1/8	14 7/8	14 5/16	15 5/8	14 27/64
24	15 3/4	15 1/2	14 15/16	16 1/4	15 3/64
25	16 3/8	16 1/8	15 9/16	16 7/8	15 43/64
26	17 5/8	17 3/8	16 13/16	18 1/8	*

NUMBER OF POLES	A	B	C	D	E
27	18 1/4	18	17 7/16	18 3/4	*
28	18 7/8	18 5/8	18 1/16	19 3/8	*
29	19 1/2	19 1/4	18 11/16	20	*
30	20 1/8	19 7/8	19 5/16	20 5/8	*
31	20 3/4	20 1/2	19 15/16	21 1/4	*
32	21 3/8	21 1/8	20 9/16	21 7/8	*
33	22	21 3/4	21 3/16	22 1/2	*
34	22 5/8	22 3/8	21 13/16	23 1/8	*
35	23 1/4	23	22 7/16	23 3/4	*
36	23 7/8	23 5/8	23 1/16	24 3/8	*
37	24 1/2	24 1/4	23 11/16	25	*
38	25 1/8	24 7/8	24 5/16	25 5/8	*
39	25 3/4	25 1/2	24 15/16	26 1/4	*
40	26 3/8	26 1/8	25 9/16	26 7/8	*
41	27	26 3/4	26 3/16	27 1/2	*
42	27 5/8	27 3/8	26 13/16	28 1/8	*
43	28 1/4	28	27 7/16	28 3/4	*
44	28 7/8	28 5/8	28 1/16	29 3/8	*
45	29 1/2	29 1/4	28 11/16	30	*
46	30 1/8	29 7/8	29 5/16	30 5/8	*
47	30 3/4	30 1/2	29 15/16	31 1/4	*
48	31 3/8	31 1/8	30 9/16	31 7/8	*
49	32	31 3/4	31 3/16	32 1/2	*
50	32 5/8	32 3/8	31 13/16	33 1/8	*
51	33 7/8	33 5/8	33 1/16	33 3/4	*
52	34 1/2	34 1/4	33 11/16	34 3/8	*

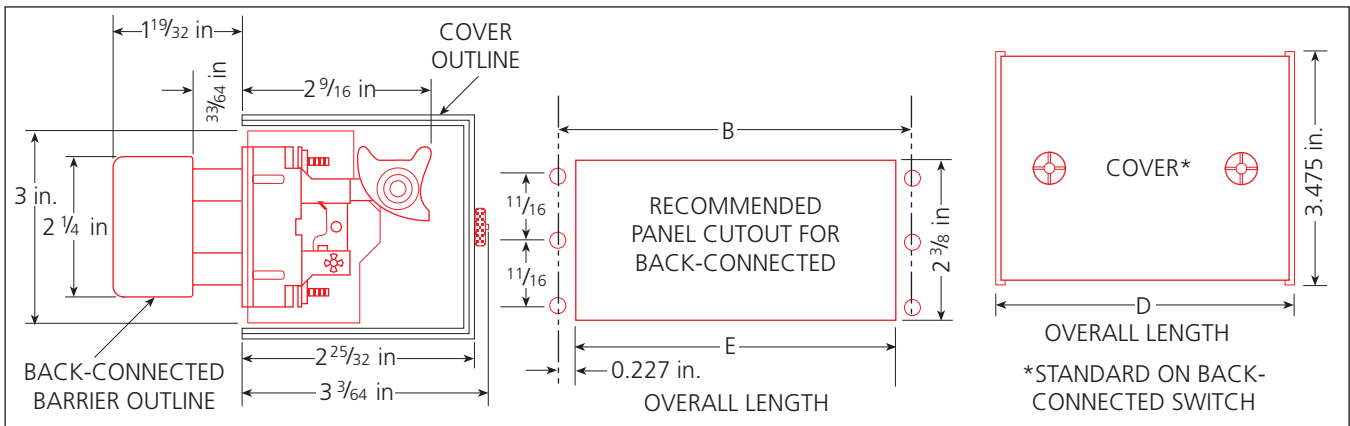
Note: To provide extra mounting support, at 26 poles one blank space is added; at 51 poles two blank spaces are added.

* Panel cutout mounting not recommended

STATES Type MTS Front-Connected Switches

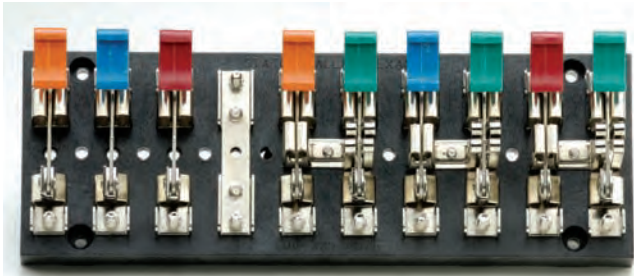


STATES Type MTS Back-Connected Switches



Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White y: Yellow

Type SJK Test Switches



DESCRIPTION

STATES Type SJK Test Switches have long been used for providing a reliable, simple means to test meters, relays and instrument transducers and for control system calibration, disconnection, troubleshooting, checkout and testing. Make-before-break short-circuiting elements for current transformer circuits and test jacks are available. Each switch blade can be operated independently or, where necessary, adjacent handles can be ganged for simultaneous operation. All configurations are available in front-connected, back-connected or flush-mounted styles.

Front-connected switches usually are mounted on the same side of the panel as the wiring. Back-connected switches are mounted on one side of the panel, and the wiring is on the other side. As an option, clear or opaque plastic covers are available for both front-connected or back-connected switches.

Flush-mounted switches match flush- or semiflush-mounted relays, meters, etc., furnished on steel panelboards. They consist of a back-connected switch mounted in an insulated metal cabinet with cover.

FEATURES AND BENEFITS

- **Self-extinguishing materials:** All non-metallic components are made of self-extinguishing, flame-retardant materials with Underwriters Laboratories' best rating for self-extinguishing materials (V-O).
- **Nonferrous material:** All current-carrying metallic components, including hardware, are made of highest quality nonferrous materials such as copper, bronze, brass or phosphor bronze. This ensures excellent conductivity and minimizes galvanic action between dissimilar metals.
- **Nickel plating:** All current-carrying metallic components, including hardware, have a corrosion-resistant nickel finish that ensures good electrical contact and smooth operation of moving parts even after years of inactivity.
- **Safety-grip handle:** A molded handle covers the terminal and includes a lower lip that projects over the metal parts of the switch, thus protecting the operator from contact with live components.

- **No-barrier design**
- **Self-extinguishing materials**
- **Front-connected, back-connected and flush-mounted styles**
- **Blades operate independently or can be ganged together**

- **One-piece jaw and hinge:** One-piece construction of hinge and jaw eliminates unnecessary, multiple connection points.
- **Special blade shape:** All blades are shaped so that the edge of the blade enters at a right angle to the jaw; thus, the blade enters and exits the full width of the jaw simultaneously.
- **Test lug:** The large corrugated test lug provided for each terminal stud is a secure surface for attaching test clips.
- **Switch jaws:** All STATES Test Switches have uniform contact pressure over the full width of the blade. The "ping" heard when opening the blade is due to the special, spring-grade phosphor bronze used in the jaw. This design ensures an excellent low-resistant contact that will not overheat.
- **Short-circuit jaw:** A rugged, make-before-break element is used to short the secondary of a current transformer.
- **Fixed terminal studs:** The screw terminals on which wiring connections are made are a part of a rigid, immovable assembly and cannot be turned or backed out.
- **Test jack:** The test jack eliminates the possibility of opening current transformer secondaries and permits safe, easy measurements to be made in current circuits without disturbing permanent wiring. A dual-circuit test plug, such as the STATES Part No. 15000, inserted into the test jack puts the measuring instrument in series with the current circuit. The test jack does not carry current except when making a test because it is shunted by a standard switch blade that is opened only when the test jack is used.
- **Color-coded handles:** Unless otherwise specified, potential elements have red handles and current elements have black; however, the following other colors are available at additional cost: blue, orange, white, yellow, brown and green.
- **Identification card holder:** Each safety grip handle is slotted for insertion of an identification card for marking or coding. Cards are available under Part No. SB678.
- **Bases:** Type SJK Test Switches are available in 1-, 2-, 3-, 4-, 7- and 10-pole base sizes. The bases are made of rugged, $\frac{3}{4}$ inch, non-tracking material with excellent insulating properties.
- **Extra-wide element separation:** Elements are $\frac{1}{16}$ inches center-to-center to allow for easy installation of test leads.

ORDERING INFORMATION

The part numbers under the arrangements on the following pages are for front-connected switches without covers, which are designated by the first three characters in the Part No., 20K. **Example: 20K10-E**

COVERS

Any front- or back-connected switch, up to 10 poles, can be ordered with a cover. Covers are available on 4-, 7- and 10-pole bases. Although you may choose a larger base, usually a 1- to 4-pole switch is built on a 4-pole base; a 5- to 7-pole switch is built on a 7-pole base; and an 8- to 10-pole switch is built on a 10-pole base.

To order front-connected switches

To order front-connected switches without covers, specify the Part No. shown under the arrangements on the following pages.

Example: 20K10-E

For covers, change the 20K prefix to one of the following prefixes:

Cover	Prefix
Front-connected, slotted, clear	60K
Front-connected, slotted, opaque	80K

Example: 60K10-E

To order back-connected switches

To order back-connected switches without covers, specify the desired arrangement and add the suffix -B.

Example: 20K10-E-B

Covers are available for 4-, 7- and 10- pole switches.

For covers, add the appropriate prefix:

Cover	Prefix
Back-connected, solid, opaque	90K
Back-connected, solid, clear	70K

Example: 90K10-E-B

To order flush-mounted switches

Add the prefix **G** to the number of the desired arrangement.

Example: G-20K10-E

Flush-mounted switches are provided with a cover. (The prefix **G** mentioned above designates a flush-mounted switch and its' standard cover.)

SPECIAL ORDERS

Special Arrangements: In addition to the typical arrangements shown on the following pages, special arrangements are available. These can be made of any combination of potential or current elements, with a maximum of 10 poles. For more information, refer to the following example and illustrations on Page 47.

Example: To order a customized, 10-pole, back-connected switch with a clear, back-connected cover, specify:

Switch Type: STATES Type SJK

No. of poles: 10-pole test switch

***Arrangement:** 1-10-1-10-1-10-1

Style: Back-connected

Cover: Clear, back-connected

***Arrangements should be given as front view of switch, left to right.**

Handle Colors: The standard colors for handles are red for potential handles and black for current handles. Handles are also available in other colors.

To specify non-standard colors, add to the element number the appropriate color code:

Color	Color Code	Color	Color Code
Black	k	Red	r
Blue	b	White	w
Green	g	Yellow	y
Orange	e	Brown	n

To order a switch with handles in non-standard colors, you must specify the arrangement with colors indicated. For example, to order a 10-pole switch with special handle colors, specify: **Arrangement:** 1k/10g/1y/10b/1e/10r/1w
Ganged handles: You may specify a yoking bar to gang adjacent handles.

For example, to order a switch with the adjacent potentials ganged, you must specify: **Gang all potentials**

Hinge position: The "U" in an arrangement indicates the hinge is positioned upside down from the typical arrangement.

Bases: An 8- or 9-pole test switch is built on a 10-pole base. A 5-, 6-, or 7-pole test switch usually is built on a 7-pole base but can be provided on a 10-pole base if desired.

OPTIONAL ACCESSORIES



Socket Wrench and Insert

To speed installation of the terminal nuts on STATES Test Switches, the socket wrench (Part No. 16028) and $\frac{3}{8}$ inch insert (Part No. 16027) are available.

The screwdriver attachment

(Part No. 16022) makes this wrench your complete meter installation tool.

Dual Circuit Plug

By inserting the STATES Dual Circuit Plug (Part No. 15000) into the test jack, safe measurement can be made of current transformer secondary current.



See Accessories on page 67.

STATES

FRONT VIEW

1-POLE

(On 1-Pole base unless otherwise noted)



20K01-B (1-Pole base)

Color Options: **1y**
20K01-F

1k
20K01-K
(1-pole base)



20K01-E (1-Pole base)

Other 1-Pole
Standard Arrangements:

1-26
20K01-P (2-Pole base)

9-26
20K01-E2 (2-Pole base)

2-POLE

(On 2-pole base unless otherwise noted)



20K02-D2 (2-Pole base)



20K02-B (2-Pole base)

Color Option: **2y**
20K02-N2
(2-Pole base)



20K02-D (2-Pole base)



20K02-G (2-Pole base)

2-POLE (CONT.)



20K02-E (2-Pole base)

Other 2-Pole
Standard Arrangements:

1/1g
20K02-J4 (2-Pole base)

26-1-1-26
20K02-K2 (4-Pole base)

26-2-26
20K02-A (4-Pole base)

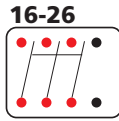
26-13-26
20K02-V2 (4-Pole base)

3-POLE

(On 4-Pole base unless otherwise noted)

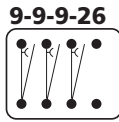
1-1-1-26
20K03-B2 (4-Pole base)

Color Option: **1y-1y-1y-26**
20K03-N3
(4-Pole base)



20K03-T (4-Pole base)

Color Option: **16K-26**
20K03-D4
(4-Pole base)



20K03-V2 (4-Pole base)

17 (3-pole base)



20K03-E2 (4-Pole base)

Other 3-Pole
Standard Arrangements:

1-10-26
20K03-E3 (4-Pole base)

3-POLE (CONT.)

1-11
20K03-C6 (3-Pole base)

1-25-25-26
20K03-A7 (4-Pole base)

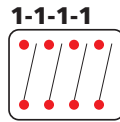
15-24-26
20K03-A2 (4-Pole base)

16
20K03-D (3-Pole base)

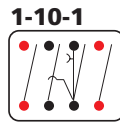
17-26
20K03-A3 (4-Pole base)

4-POLE

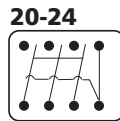
(On 4-pole base unless otherwise noted)



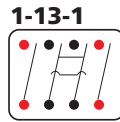
20K04-P



20K04-M



20K04-S3



20K04-D

Other 4-Pole
Standard Arrangements:

1-1-1-1
20K04-SA

1/1/10
20K04-X

1-1-11
20K04-C

1-1-25-25
20K04-A3

1-26-1-26-26-11
20K04-T6 (7-Pole base)

1-26-10-26-1-26
20K04-AK (7-Pole base)

4-POLE (CONT.)

4-1-1-5
20K04-E2

6-6-6-7
20K04-G5

9-24-14
20K04-GA

9-9-9-9
20K04-W

9-26-9-26-9-26-9
20K04-Z8 (7-Pole base)

10-1-1
20K04-K

10-2
20K04-C7

10-10
20K04-B

13-13
20K04-H

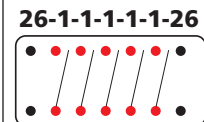
22
20K04-Q2

25-25-1-1
20K04-YA

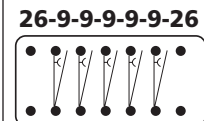
26-26-26-4-1-1-5
20K04-RA (7-Pole base)

5-POLE

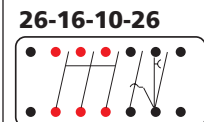
(On 7-pole base)



20K05-P



20K05-G5



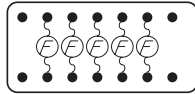
20K05-S3

STATES

FRONT VIEW

5-POLE (CONT.)

26-25-25-25-25-26



20K05-N5

Other 5-Pole
Standard Arrangements:

1-26-1-26-13-24
20K05-C8

1-26-26-10-11
20K05-B6

13-26-26-16
20K05-J4

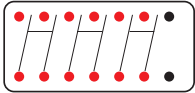
26-10-1-10-26
20K05-K

26-1-1-1-1-1-26
20K05-L5

26-2/1/1-1-26
20K05-B8

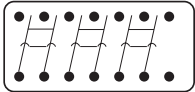
6-POLE (ON 7-POLE BASE)

2-2-2-26



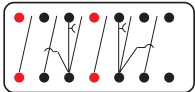
20K06-N4

13-13-13-26



20K06-F

1-10-1-11-26



20K06-T

Other 6-Pole
Standard Arrangements:

1-1-1-1-1-1-26
20K06-B

1-1-1-1-1-1-26
20K06-V8

1y-1y-1y-1y-1y-26
20K06-B8

1-1-1-26-25-25-25
20K06-LC

2-2/26-13
20K06-S5

4-6-4-6-4-5-26

6-POLE (CONT.)

20K06-S2

9-9-9-9-9-26
20K06-P5

11-11-11-26
20K06-Q3

10-10-10-26
20K06-R7

13-13-26/1/1
20K06-A

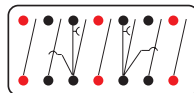
13-13-26/2
20K06-C5

13-13-13-26
20K06-DC

13r-13r-13r-26
20K06-FR

7-POLE (ON 7-POLE BASE, UNLESS OTHERWISE NOTED)

1-10-1-11-1



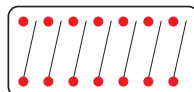
20K07-A

16-10-10



20K07-B2

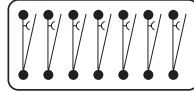
1-1-1-1-1-1-1



20K07-S

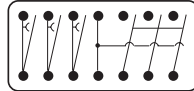
Color Option: 1y-1y-1y-1y-1y-1y-1y
20K07-B8

9-9-9-9-9-9-9



20K07-R8

9-9-9-24-19



20K07-T8

Other 7-Pole
Standard Arrangements:

/1/1/1/10-10
20K07-BP

1e-1b-1g-10eg-10bg
20K07-BQ

1-1-1-10-11
20K07-E

1-1-1-1-11-1
20K07-RA

1/1/1-26-26-10-10
20K07-CE (10-Pole base)

1-10-1-10-1
20K07-K

/1/10/1/11/1/
20K07-M

/1k/10wg/1b/10gy/1/
20K07-CC

1-11-1-11-1
20K07-Z

1-13-1-13-1
20K07-D

1-13-1-13-1
20K07-AZ

/1/13/1y/13/1
20K07-DY3

1-26-1-26-1-26-10-11
20K07-CF (10-Pole base)

/1/26-10-26/1/26-10/1/
20K07-CG 10-Pole base)

1-26-10-26-1-26-11/1/
20K07-C2 10-Pole base)

1-26-13-26-1-26-13/1/
20K07-CD 10-Pole base)

9-11-9-11-9
20K07-NA

10-11-1-1-1
20K07-G

13-13-13-1
20K07-AX

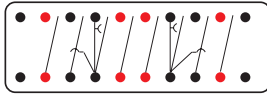
Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

STATES

FRONT VIEW

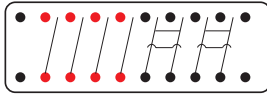
8-POLE (ON 10-POLE BASE)

26-1-10-1-1-11-1-26



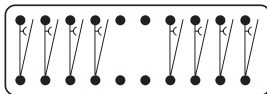
20K08-B

26-1-1-1-1-13-13-26



20K08-CD

9-9-9-9-26-26-9-9-9-9



20K08-U9

Color Option:

9r-9r-9r-9r-26-26-9r-9r-9r-9r
20K08-XA

Other 8-Pole

Standard Arrangements:

1b/1g/1/24/-26-10-26-11rr

20K08-CF

26-1-1-1-1-1-1-1-1-26

20K08-N

26-1-1-1-1-1-1-1-1-26

20K08-AB

26-1-1-1-1-10-10-26

20K08-PE

26-1-1-1-1-10-11-26

20K08-E2

26-1/1/1/1/13-13-26

20K08-B6

26/1/6/1/6-4/1/3/1/26

20K08-CG

26-1r-6r-9k/1k/1w-9w-5g-1g-26

20K08-P6

26-1-10ek-1y-1w-10gk-1k-26

20K08-ME

26-1-10-10-10-1-26

20K08-F7

26-1-13-1-1-13-1-26

20K08-J

26-9-9-9-9-9-9-9-26

20K08-T9

26-9-9-9-24-19-5-26

20K08-TE

26-10-10-10-1-1-26

20K08-V

26-10-10-10-10-26

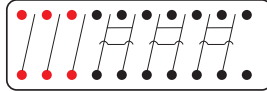
20K08-K6

26-16-24-13-13-26

20K08-JE

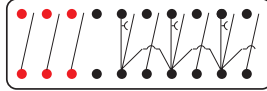
9-POLE (ON 10-POLE BASE)

1-1-1-13-13-13-26



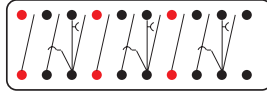
20K09-C

1-1-1-26-4-6-4-6-4-5



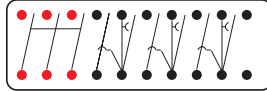
20K09-D8

1-10-1-10-1-10-26



20K09-K

16-10-10-10-26



20K09-XU

Other 9-Pole

Standard Arrangements:

1-1-1-1-1-1-1-1-26

20K09-W

1-1-1-1-1-13-13-26

20K09-C7

1-1-1-10-10-10-26

20K09-U

1-1-1-11-11-11-26

20K09-P

1-1-24-26-4-6-4-6-4-5

20K09-F8

1-10-10-1-10-1-26

20K09-G

1-11-1-11-1-11-26

20K09-N

1-13-1-13-1-13-26

20K09-H

9-9-9-9-9-9-9-9-26

20K09-Q4

9-10-10-10-10-26

20K09-U7

10-10-10-1-1-26

20K09-D

10-10-10-10-9-26

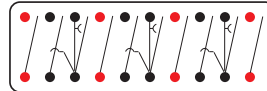
20K09-AB

11-9-11-9-11-9-26

20K09-XB

10-POLE (ON 10-POLE BASE)

1-10-1-10-1-10-1



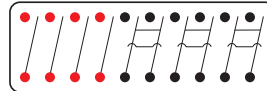
20K10-E

Color Options:

1-10bw-1y-10gw-1e-10nw-1w
20K10-BZ

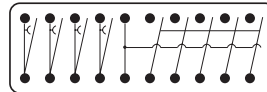
1-10rk-1w-10wb-1g-10ge-1k
20K10-Z5

1-1-1-1-13-13-13



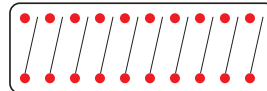
20K10-C

9-9-9-9-24-14-19



20K10-MA

1-1-1-1-1-1-1-1-1-1



20K10-Y

Color Options:

1y-1y-1y-1y-1y-1y-1y-1y-1y-1y
20K10-H8

1k-1k-1k-1k-1k-1k-1k-1k-1k-1k
20K10-K8

1-1-1-1-10-10-10

20K10-BT

1e-1b-1-24-10eg-10bg-10rg

20K10-BV

/1/1/1/24-11-11-11

20K10-D7

1-1-10-10-1-1-1-1

20K10-BB

1-6-1-6-1-6-4-4-4-24

20K10-X

/1/10/1/10/1/10/1/

20K10-EM

1-13-1-13-1-13-1

20K10-G

/1/13/1/13/1/13/1y/

20K10-W5

1-13-1-13-1-13-24

20K10-F

/1/13/1/13/1/13/24/

20K10-M

2-2-2-2-2

20K10-AA

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

STATES

FRONT VIEW

10-POLE (CONT.)

2-2-2-2-13
20K10-CK

9-9-9-9-9-9-24-19
20K10-M9

9-9-9-9-24-5-5-5-5-5
20K10-B5

9-9-9-9-24-19-19
20K10-G9

9-9-9-24-19-19
20K10-V9

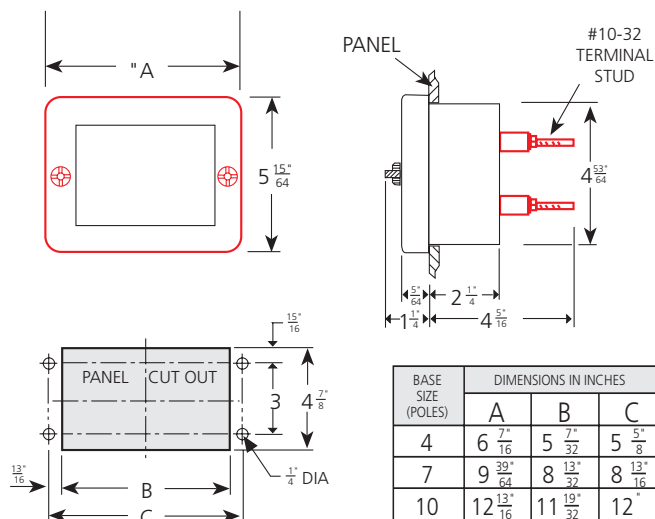
10-10-10-10-10
20K10-M4

13-13-13-1-1-1-24
20K10-BU

ELEMENTS FOR CUSTOMIZED SWITCHES NOT LISTED UNDER TYPICAL ARRANGEMENTS

1 Single-Pole Potential	2 Ganged Double-Pole Potential	16 Ganged Three-Pole Potential	13 Ganged Two-Pole Short-Circuiting Current Assembly	17 Ganged Three-Pole Short-Circuiting Current Assembly
9 Current Test Jack	6 Short-Circuiting Assembly With Right-Hand Common Bar	10 Right-Hand Current Assembly Consists of Test Jack and Short-Circuiting Current Assemblies	20 Ganged Three-Pole Short-Circuiting Current Assembly, Right Extension	5 Short-Circuiting Assembly With Left-Hand Common Bar
11 Left-Hand Current Assembly Consists of Test Jack and Short-Circuiting Current Assemblies	19 Ganged Three-Pole Short-Circuiting Current Assembly, Left Extension	22 Left-Hand Through Bar and Three-Pole Short-Circuiting Current Assembly	23 Right-Hand Through Bar and Three-Pole Short-Circuiting Current Assembly	24 Through Bar
26 Blank Space	25 30-Amp Fuse Mounting Clip	3 Current Test Jack With Left-Hand Common Bar	4 Current Test Jack With Right-Hand Common Bar	NOTES: 1. Barriers are provided between poles of opposite polarity. 2. Potential handles are red and current handles are black unless otherwise specified. 3. Arrange elements left to right, front view. 4. Covers are only available on 4, 7 and 10 pole bases. 5. Element No. 25 accepts standard cartridge fuses rated 600 VAC 30 AMP. Fuse dimensions must be 1/2" diameter and 2" in length (Fuses Not Included)

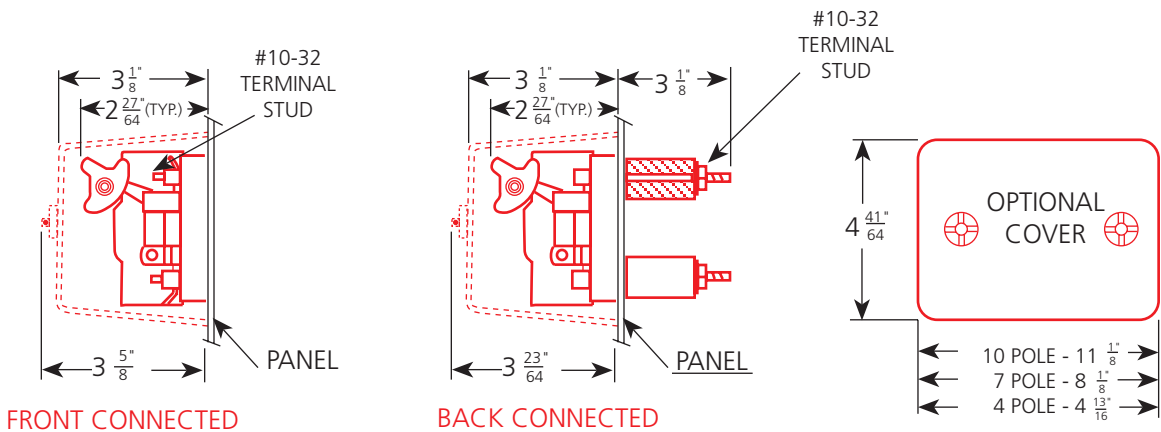
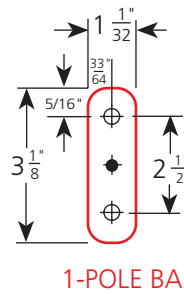
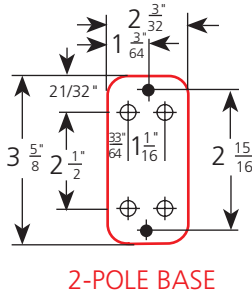
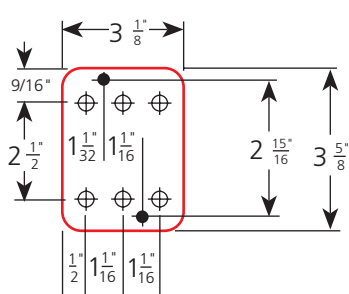
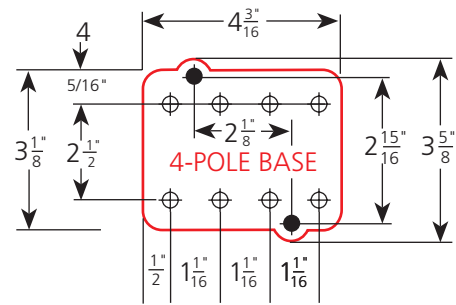
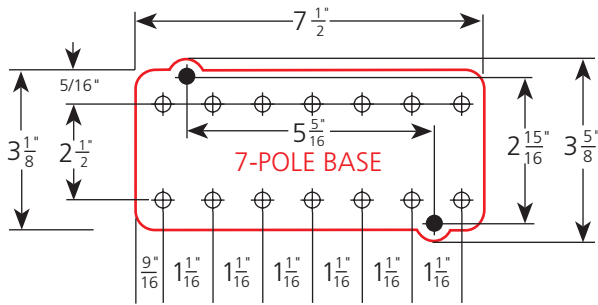
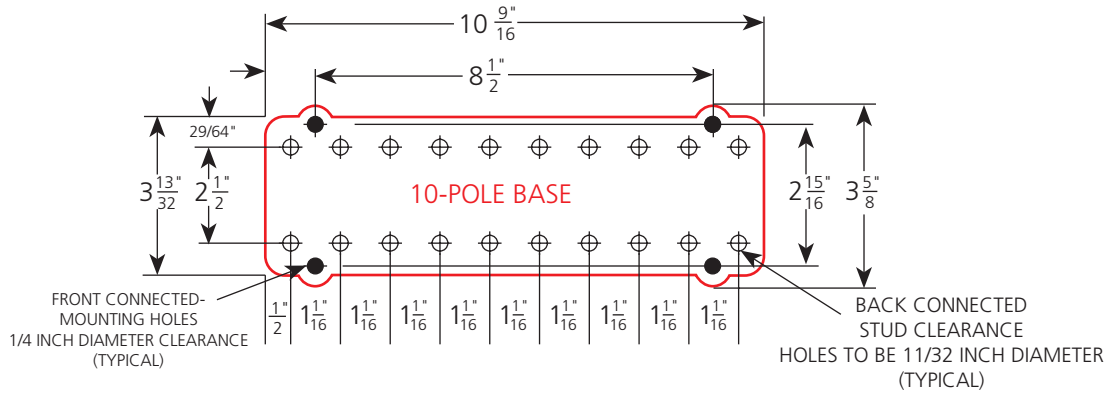
DIMENSIONS (IN INCHES) FLUSH MOUNT SWITCH



Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

STATES

DIMENSIONS (IN INCHES)



Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

STATES

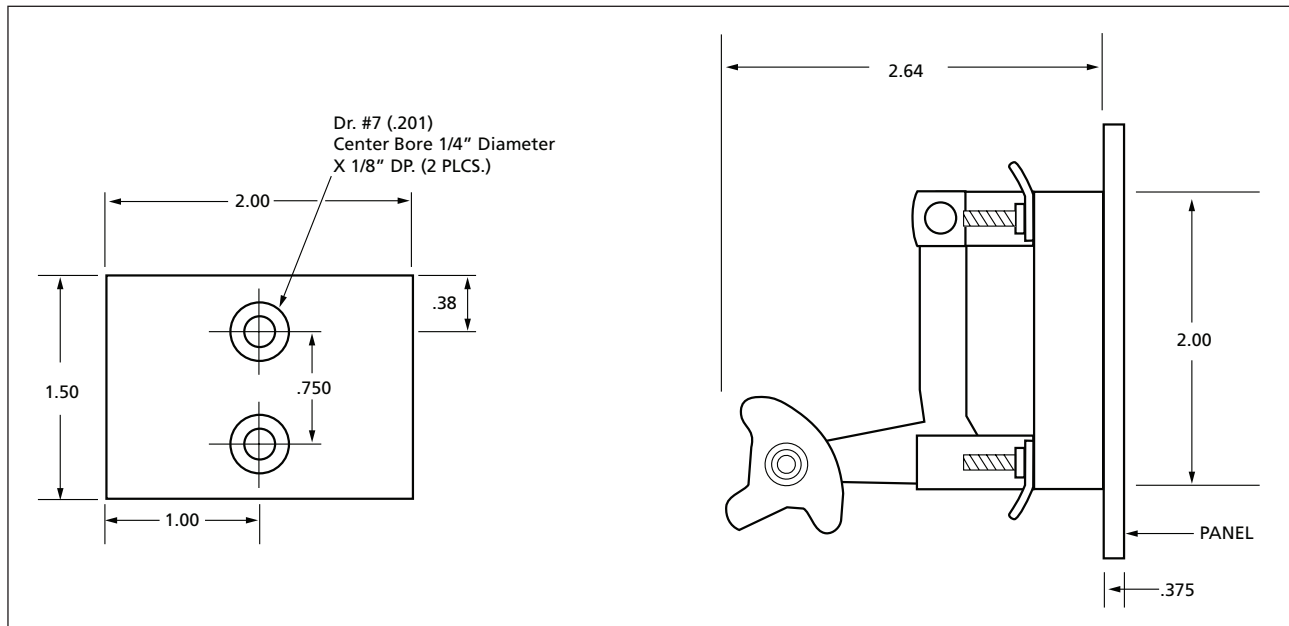
STATES SJK-2RK1 Test Switch



ORDERING INFORMATION

Part No.

- 2RK1-A – Yellow Handle
- 2RK1-B – Red Handle
- 2RK1-C – Black Handle
- 2RK1-D – White Handle
- 2RK1-E – Blue Handle
- 2RK1-F – Green Handle



Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow

Type SMH Test Switches



DESCRIPTION

STATES Type SMH Test Switches combine over 60 years of experience in the design and manufacture of test switches with the latest improvements in material composition and construction techniques.

A complete line of switches is available for meter, relay, instrument, transducer and control system calibration, disconnection, troubleshooting, checkout and testing. All the features you need for any application – potential elements, current elements, make-before-break short-circuiting elements for current transformer circuits, test jacks – are included.

Each switch blade can be operated independently or, where requirements dictate, adjacent handles can be ganged for simultaneous operation.

Features are incorporated for safety, durability, ruggedness and reliability. Where applicable, dimensions are in accordance with EEI-AEIC Meter and Service Committee Standards.

All configurations are available in front-connected, back-connected or flush-mounted styles.

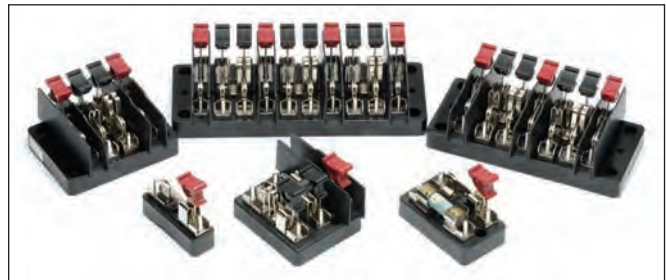
RECOGNIZED BY UL AND CUL

Underwriters Laboratories recognizes STATES Type SMH Test Switches under its component program, File No. E75355, with a rating of 600 volts, 30 amperes.

- **High barriers**
- **Recognized by UL and CUL**
- **Self-extinguishing materials**
- **Nonferrous material**
- **Corrosion-resistant nickel finish**
- **Safety-grip handle**

FEATURES AND BENEFITS

- **Self-extinguishing materials:** All non-metallic components are made of self-extinguishing, flame-retardant materials with Underwriters Laboratories' best rating for self-extinguishing materials (V-O).
- **Nonferrous material:** All current-carrying metallic components, including hardware, are made of highest quality nonferrous materials such as copper, bronze, brass or phosphor bronze. This ensures excellent conductivity and minimizes galvanic action between dissimilar metals.
- **Nickel plating:** All current-carrying metallic components, including hardware, have a corrosion-resistant nickel finish that ensures good electrical contact and smooth operation of moving parts even after years of inactivity.
- **One-piece jaw and hinge:** One-piece construction of hinge and jaw eliminates unnecessary, multiple connection points.



Type SMH Test Switches are available in 1-, 2-, 3-, 4-, 7- and 10-pole base sizes. The bases are made of rugged, 3/8 inch, nontracking material with excellent insulating properties and are impervious to moisture. Mounting dimensions of the 4-, 7-, and 10-pole bases conform to applicable EEI-AEIC Meter and Service Committee Standards.

STATES

- **Special blade shape:** All blades are shaped so that the edge of the blade enters at a right angle to the jaw; thus, the blade enters and exits the full width of the jaw simultaneously.
- **Test lug:** The large corrugated test lug provided for each terminal stud is a secure surface for attaching test clips.
- **Switch jaws:** All STATES Test Switches have uniform contact pressure over the full width of the blade. The “ping” heard when opening the blade is due to the special, spring-grade phosphor bronze used in the jaw. This design ensures an excellent low-resistance contact that will not overheat.
- **Short-circuit jaw:** A rugged, make-before-break element is used to short the secondary of a current transformer.
- **Fixed terminal studs:** The screw terminals on which wiring connections are made are part of a rigid, immovable assembly and cannot be turned or backed out.
- **Test jack:** The test jack eliminates the possibility of opening current transformer secondaries and permits safe, easy measurements to be made in current circuits without disturbing permanent wiring. A dual-circuit test plug, such as the STATES Part No. 15000, inserted into the test jack puts the measuring instrument in series with the current circuit. The test jack does not carry current except when making a test because it is shunted by a standard switch blade that is opened only when the test jack is used.

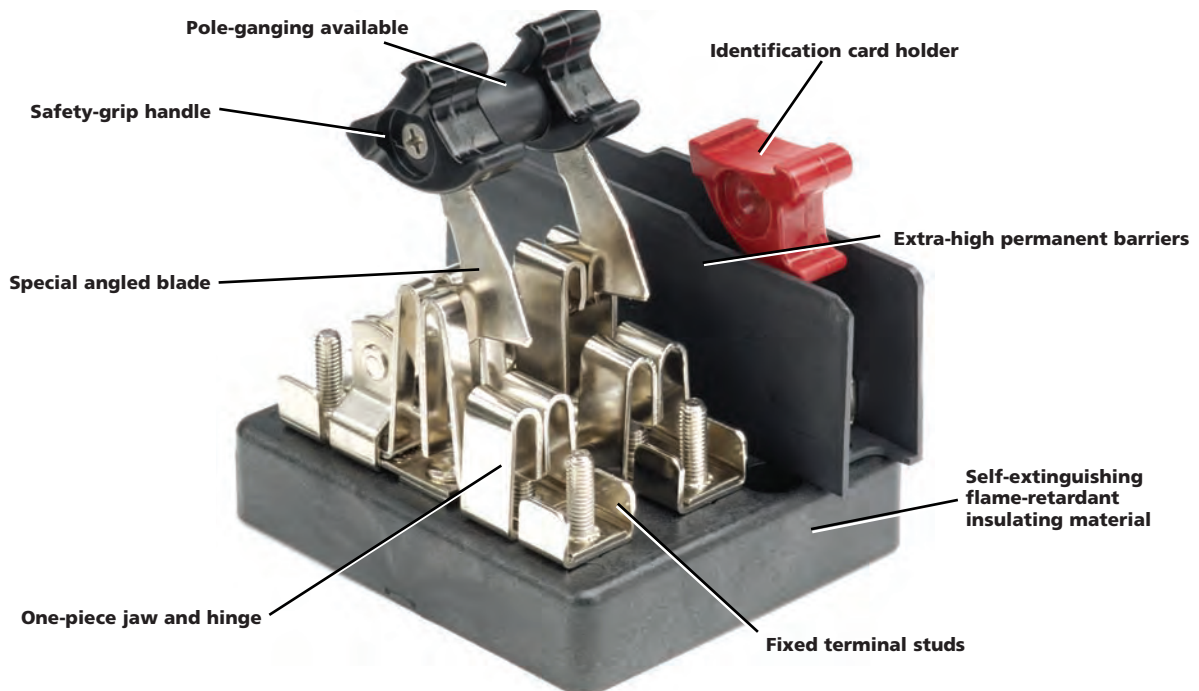


Safety-grip handle: A molded handle covers the terminal and includes a lower lip that projects over the metal parts of the switch, thus protecting the operator from contact with live components.



High barriers: Maximum circuit isolation is obtained by extra-high barriers that provide uncompromised protection. Barriers are permanently mounted and cannot fall out or be knocked out, as in some “snap-in” designs.

- **Color-coded handles:** Unless otherwise specified, potential elements have red handles and current elements have black; however, the following other colors are available at additional cost: blue, orange, white, yellow, brown, green, black and white.
- **Identification card holder:** Each safety grip handle is slotted for insertion of an identification card for marking or coding. Cards are available under Part No. SB678.



STATES

FRONT-CONNECTED SWITCHES

The front-connected test switch usually is used where wiring entering and leaving the test switch is located on the same side of the panel that the test switch is mounted.

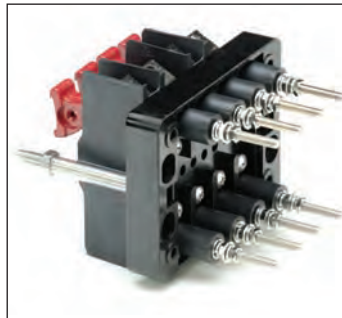
To order front-connected test switches, refer to **Ordering Information**.



BACK-CONNECTED SWITCHES

All switches can be provided in a back-connected version so that the switch is mounted on one side of a panel and the wiring connections are made on the opposite side. Back-connected switches have factory-installed insulated studs that project from the rear of the switch.

To order back-connected switches, refer to **Ordering Information**.

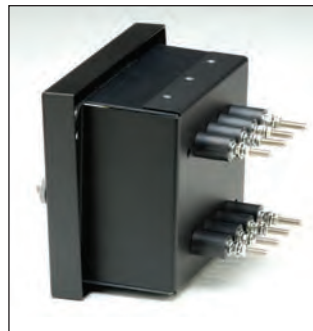


FLUSH-MOUNTED SWITCHES

Flush-mounted switches consist of a standard back-connected test switch mounted in an insulated metal cabinet with cover. Flush-mounted switches match flush-mounted or semi-flush-mounted relays, instruments, meters, etc., furnished on steel panelboards.

The switch cabinet has a black finish to match the panelboard and/or devices mounted in the panelboard. The cabinet cover, which has a protective glass insert, can be sealed. Self-extinguishing, flame-retardant insulating material lines the cabinet. The cabinet is mounted by inserting it into a panel cutout and fastening it with screws that are hidden when the cover is attached.

To order flush-mounted switches, refer to **Ordering Information**.



STATES

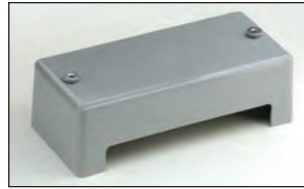
COVERS

Rugged, virtually unbreakable covers for STATES Test Switches are available in clear or opaque styles. The covers are manufactured from tough, self-extinguishing, flame-retardant polycarbonate and are available for front- or back-connected versions.

The covers are constructed so that all switch blades must be closed when the cover is properly sealed. Switches provided with covers include two insulated, cadmium-plated steel cover studs that have holes for wire seals.

Covers for front-connected switches are open or slotted at the bottom of each side to permit wiring to enter and exit between the cover and the panel.

Covers for back-connected switches fit flush with the panel because all wiring exits at the rear of the test switch. To add a cover, refer to **Ordering Information**.



Front-connected opaque (C1) cover



Front-connected clear (C3) cover



Back-connected opaque (C2) cover

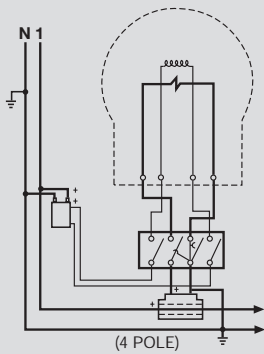


Back-connected clear (C4) cover

Cover style must be specified at order placement

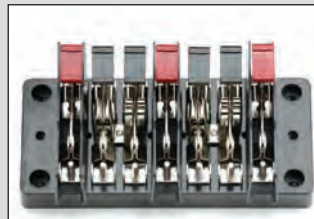
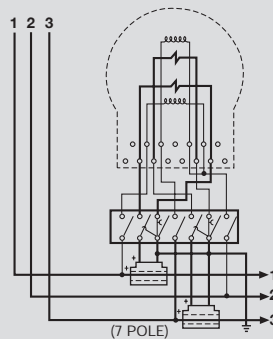
TYPICAL INSTALLATIONS

1 ϕ 2-Wire with CT and PT



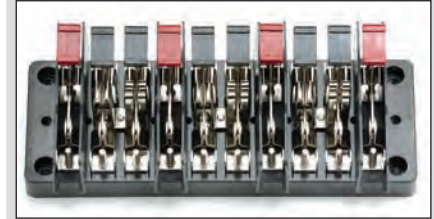
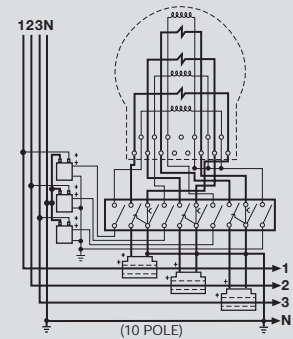
**4-Pole Test Switch
Part No. 404-N**

3 ϕ 3-Wire 2-Element



**7-Pole Test Switch
Part No. 407-K**

3 ϕ 4-Wire Y 3-Element



**10-Pole Test Switch
Part No. 410-E**

ORDERING INFORMATION

The part number under the arrangements on the following pages are for front-connected switches without covers. These same numbers are also used as the basis for ordering back-connected and flush-mounted switches. The part numbers are three digits followed by a letter or letter and number combination. **Example: 402-A**

42/42/



402-A

The slashes (/) in the arrangements represent barriers that are installed standard between any adjoining elements of opposite polarity.

To order front-connected switches: Specify the part numbers shown under the arrangements on the following pages.

Example: 410-A1

Covers are available for 4-, 7- and 10-pole base sizes. For covers, add the appropriate prefix:

Cover	Prefix
Front-connected, slotted, opaque	C1
Front-connected, slotted, clear	C3

Example: C3-410-A1

To order back-connected switches specify the desired arrangement and add the suffix -B.

For covers, add the appropriate prefix:

Cover	Prefix
Back-connected, solid, opaque	C2
Back-connected, solid, clear	C4

Example: C2-410-A1-B

To order flush-mounted switches: Add the prefix G- to the number of the desired arrangement. **Example: G-410-A1**
Flush-mounted switches are provided with a cover.

SPECIAL ORDERS

Special Arrangements: In addition to the typical arrangements shown on the following pages, special arrangements are available. These can be made of any combination of potential or current elements, with a maximum of 10 poles. For more information, refer to the following example and illustrations on Page 61.

Example: To order a unique switch in a back-connected version and with a clear back-connected cover, specify:

Switch Type: STATES Type SMH
No. of poles: 10-pole test switch
***Arrangement:** /42/44/42/46/61/45/73/
Style: Back-connected
Cover: Clear, back-connected

***Arrangements should be given as frontview of switch, left to right**

Handle Colors: The standard colors for handles are red for potential handles and black for current handles. Handles are also available in other colors.

STATES Type SMH test switches are available in literally thousands of configurations.

To specify non-standard colors, add to the element number the appropriate color code:

Color	Color Code	Color	Color Code
Black	k	Red	r
Black and White	kw	White	w
Blue	b	Yellow	y
Green	g	Brown	n
Orange	e		

To order a switch with handles in non-standard colors, you must specify the arrangement with colors indicated. For example, to order a 4-pole switch with special handle colors, specify: **Arrangement: 71g/42/42b/68w**

Ganged handles: You may specify a yoking bar to gang adjacent handles.

For example, to order a switch with the adjacent potentials ganged, you must specify: **Gang all potentials**

Hinge position: The "U" (next to an element) in an arrangement indicates the hinge is positioned upside down from the typical arrangement.

Bases: An 8- or 9-pole test switch is built on a 10-pole base. A 5-, 6-, or 7-pole test switch usually is built on a 7-pole base but can be provided on a 10-pole base if desired.

OPTIONAL ACCESSORIES



Socket Wrench and Insert

To speed installation of the terminal nuts on Type SMH Test Switches, the socket wrench (Part No. 16028) and 3/8 inch insert (Part No. 16027) are available.

The screwdriver attachment (Part No. 16022) makes this wrench your complete meter installation tool.

Dual Circuit Plug

By inserting the STATES Dual Circuit Plug (Part No. 15000) into the test jack, safe measurement can be made of current transformer secondary current.



See Accessories on page 67.

STATES

FRONT VIEW 1-POLE

42



401-A (1-Pole Base)

Color Option: 42Y
401-D
(1-Pole Base)

72



401-B (1-Pole Base)

73



401-C (1-Pole Base)

Other 1-Pole
Standard Arrangements:

/42/
401-G (1-Pole Base)

72-35
401-F (2-Pole Base)

2-POLE

42/42/



402-A (2-Pole Base)

72-72



402-B (2-Pole Base)

73/73/



402-C (2-Pole Base)

62



402-D (2-Pole Base)

2-POLE (CONT.)

44



402-E (2-Pole Base)

45



402-F (2-Pole Base)

46



402-G (2-Pole Base)

Other 2-Pole
Standard Arrangements:

35-44-35
402-N (4-Pole Base)

35-45-35
402-S (4-Pole Base)

35-46-35
402-J (4-Pole Base)

35-62/35
402-Y (4-Pole Base)

42-35-42
402-T (3-Pole Base)

42-35-42
402-U (3-Pole Base)

42-35-42-35
402-M (4-Pole Base)

42-35-42-35
402-P (4-Pole Base)

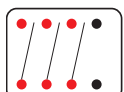
42-42
402-Q (2-Pole Base)

42-42
402-R (2-Pole Base)

/62/
402-W (2-Pole Base)

3-POLE

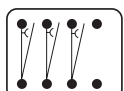
42/42/42-35



403-A (4-Pole Base)

Color Option:
42Y/42Y/42Y-35
403-M (4-Pole Base)

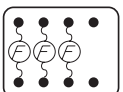
72-72-72-35



403-B (4-Pole Base)

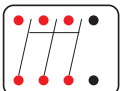
3-POLE (CONT.)

73/73/73-35



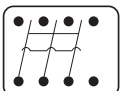
403-C (4-Pole Base)

78-35



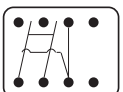
403-D (4-Pole Base)

79-35



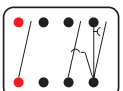
403-E (4-Pole Base)

77-61-35



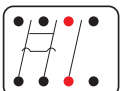
403-F (4-Pole Base)

42-35-46



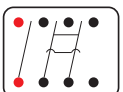
403-G (4-Pole Base)

44/42/35



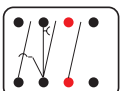
403-H (4-Pole Base)

/42/44-35



403-J (4-Pole Base)

46/42/35



403-K (4-Pole Base)

/42/46



403-S (3-Pole Base)

Other 3-Pole
Standard Arrangements:

#42-42-42#
403-N (3-Pole Base)

42Y/42Y/42Y
403-P (3-Pole Base)

42/42/42
403-T (3-Pole Base)

42-42-42
403-V (3-Pole Base)

42-46
403-R (3-Pole Base)

78
403-U (3-Pole Base)

79
403-Q (3-Pole Base)

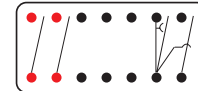
4-POLE

42/42/42/42/



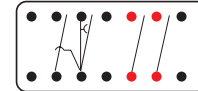
404-A

42/42K/35-35-35-45RWRK



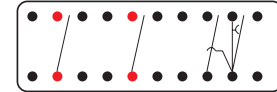
404-AA (7-Pole Base)

35-46RW-35/42R/42W/35



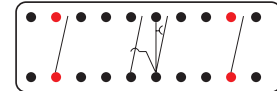
404-AB (7-Pole Base)

35-42-35-35-42-35-35-46-35



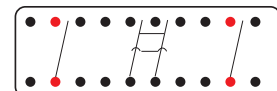
404-AC (10-Pole Base)

35-42-35-35-46-35-35-42-35



404-AD (10-Pole Base)

35/42/35-35-44-35-35/42/35



404-AE (10-Pole Base)

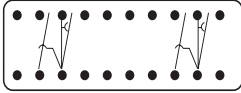
Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow kw: Black and White

STATES

FRONT VIEW

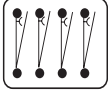
4-POLE (CONT.)

35-46-35-35-35-35-46-35



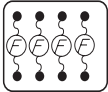
404-AF (10-Pole Base)

72-72-72-72



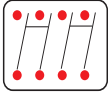
404-B

73/73/73/73/



404-C

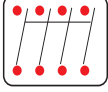
/62/62/



404-D

Color Option: /62RK/62RK/
404-AR

#42/42/42/42/#



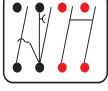
404-E

42/42/46



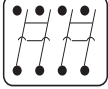
404-F

46/62



404-G

44-44



404-H

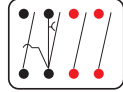
42/42/45



404-J

4-POLE (CONT.)

46/42/42



404-K

/42/44/42



404-L

44/42/42



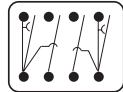
404-M

/42/46/42/



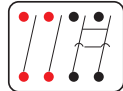
404-N

45-46



404-P

42/42/44



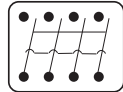
404-Q

81-61



404-R

71-71-71-70



404-S

Other 4-Pole
Standard Arrangements:

35-35/42/46/42/35
404-AP

35-35-69/42/42/70-35
404-AH

42-35-42-35-35-45
404-AK

4-POLE (CONT.)

42-35-42-35-35-46
404-AL (7-Pole Base)

42-35-46-35-42-35
404-AG (7-Pole Base)

42-42-42-42
404-AZ

46-45
404-AY

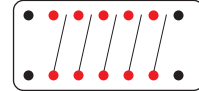
69/42/42/70
404-Y

71G/42/42B/68W
404-X

72-35-72-35-72-35-72
404-AJ (7-Pole Base)

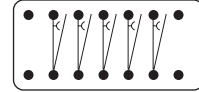
5-POLE

35-42/42/42/42/42-35



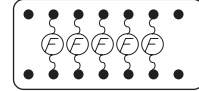
405-A

35-72-72-72-72-72-35



405-B

35-73/73/73/73/73-35



405-C

35/42/46/42/42-35



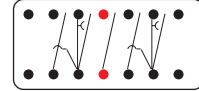
405-D

35/42/42/42/44-35



405-E

35-46/42/46-35



405-F

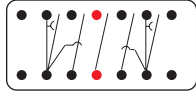
Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow kw: Black and White

STATES

FRONT VIEW

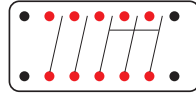
5-POLE (CONT.)

35-45/42/46-35



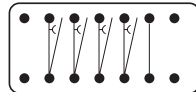
405-G

35-42/42/78-35



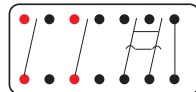
405-H

35-72/72/72/72/61-35



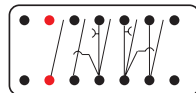
405-J

42-35-42-35-44-61



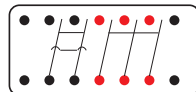
405-K

35/42/46-45-35



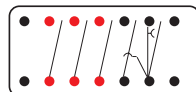
405-L

35-44/78/35



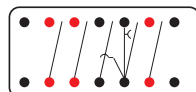
405-M

35/42/42/42/46-35



405-N

35-42/42/46/42/35



405-P

Other 5-Pole

Standard Arrangements:

35-72/72/72/72-35

405-U (7-Pole Base)

35-71-71-71-61-35

405-Y (7-Pole Base)

42-35-35-46-45

405-S (7-Pole Base)

5-POLE (CONT.)

42-35-42/42/42-35-42

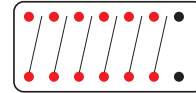
405-V (7-Pole Base)

44-35-35-35-42-35-42-35-42

405-T (10-Pole Base)

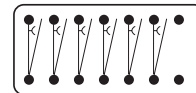
6-POLE

42/42/42/42/42/35



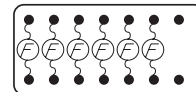
406-A

72-72-72-72-72-35



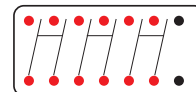
406-B

73/73/73/73/73/35



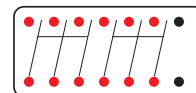
406-C

62/62/62/35



406-D

78/78/35



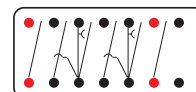
406-E

/42/42/42/46/42/35



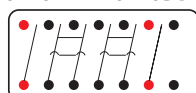
406-F

/42/46-46/42/35



406-G

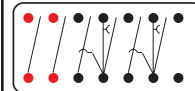
/42/44-44/42/35



406-H

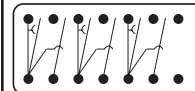
6-POLE (CONT.)

42/42/46-46-35



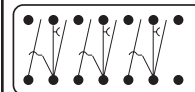
406-J

45-45-45-35



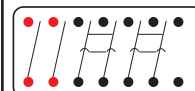
406-K

46-46-46-35



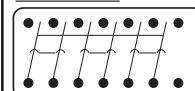
406-L

42/42/44-44-35



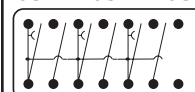
406-M

44-44-44-35



406-N

69-71-69-71-69-70-35



406-P

Other 6-Pole

Standard Arrangements:

/42/35-46-35-35-45-35/42/

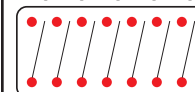
406-T (10-Pole Base)

/42/46-35-46/42/

406-AB (7-Pole Base)

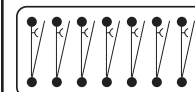
7-POLE

42/42/42/42/42/42/42



407-A

72-72-72-72-72-72-72



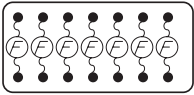
407-B

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow kw: Black and White

STATES

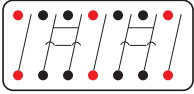
FRONT VIEW 7-POLE (CONT.)

73/73/73/73/73/73/73



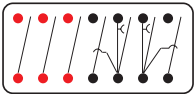
407-C

/42/44/42/44/42/



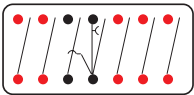
407-D

/42/42/42/46-45



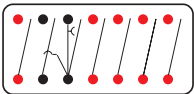
407-E

42/42/46/42/42/42/



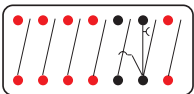
407-F

/42/46/42/42/42/42



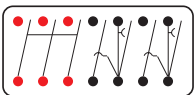
407-G

42/42/42/42/46/42



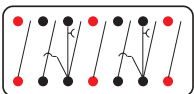
407-H

78/46-46



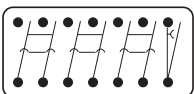
407-J

/42/46/42/46/42/



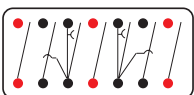
407-K

44-44-44-72



407-L

/42/46/42/45/42/



407-M

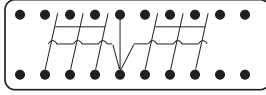
7-POLE (CONT.)

/42/42/42/46-46



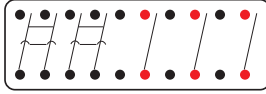
407-N

35-81-61-80-35-35



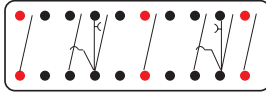
407-Q (10-Pole Base)

44-44-35/42/35/42/35/42/



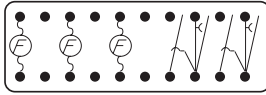
407-AA (10-Pole Base)

/42/35-46-35/42/35-46/42/



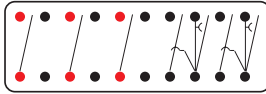
407-P (10-Pole Base)

73-35-73-35-73-35-46-46



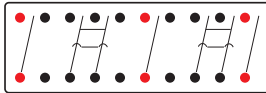
407-AC (10-Pole Base)

/42/35/42/35/42/35-46-46



407-T (10-Pole Base)

42-35-44-35-42-35-44/42/



407-U (10-Pole Base)

Other 7-Pole

Standard Arrangements:

42-35-42-35-42-35-46-45

407-AF (10-Pole Base)

/42/35-44-35/42/35-44/42/

407-AS (10-Pole Base)

42-35-46-35-42-35-45/42/

407-AD (10-Pole Base)

/42K/35-46RKW-35/42W/35-

45EG/42B

407-AT (10-Pole Base)

/42/42W/42K/46EG-46BG

407-AE

7-POLE (CONT.)

42/42G/42W-35-35-35-46EB-46KWK

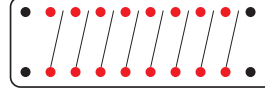
407-AG (10-Pole Base)

79-61/78

407-AB

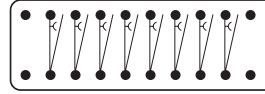
8-POLE

35-42/42/42/42/42/42/42/35



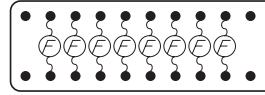
408-A

35-72-72-72-72-72-72-72-35



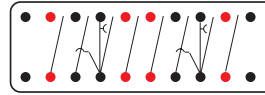
408-B

35-73/73/73/73/73/73/73/35



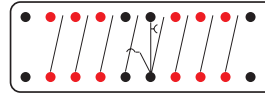
408-C

35/42/46/42/42/46/42/35



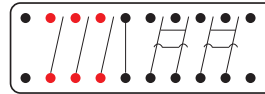
408-D

35/42/42/42/46/42/42/42/35



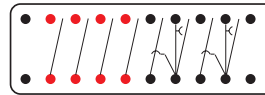
408-E

35-42/42/42/61/44-44-35



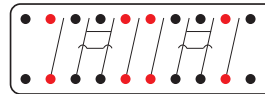
408-F

35-42/42/42/42/46-46-35



408-G

35/42/44/42/42/44/42/35



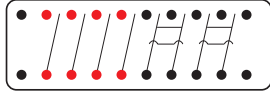
408-H

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow
kw: Black and White

STATES

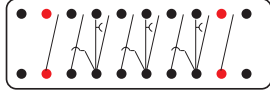
FRONT VIEW - 8-POLE (CONT.)

35-42/42/42/42/44-44-35



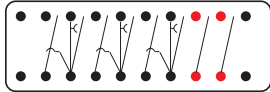
408-J

35/42/46-46-46/42/35



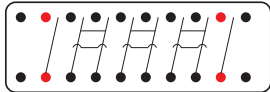
408-K

35-46-46-46/42/42-35



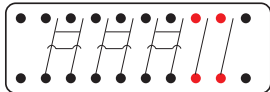
408-L

35/42/44-44-44/42/35



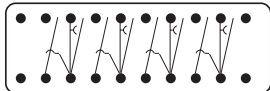
408-M

35-44-44-44/42/42-35



408-N

35-46-46-46-35



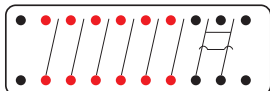
408-P

35/42/42/42/44/42/42/35



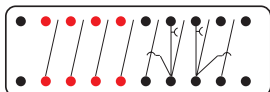
408-Q

35-42/42/42/42/42/44-35



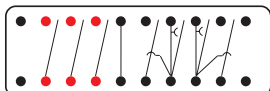
408-R

35-42/42/42/42/46-45-35



408-S

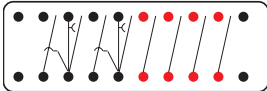
35-42/42/42/61/46-45-35



408-T

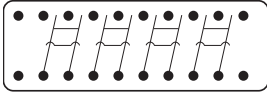
8-POLE (CONT.)

35-46-46/42/42/42/42-35



408-U

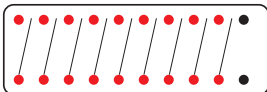
35-44-44-44-35



408-W

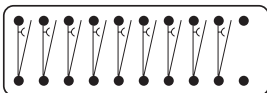
9-POLE

42/42/42/42/42/42/42/42/42-35



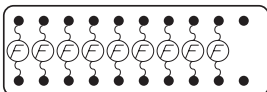
409-A

72-72-72-72-72-72-72-72-35



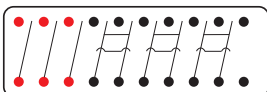
409-B

73/73/73/73/73/73/73/73-35



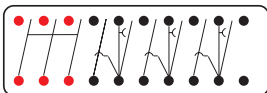
409-C

/42/42/42/44-44-44-35



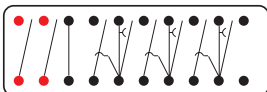
409-D

/78/46-46-46-35



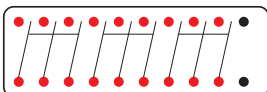
409-E

/42/42/61/46-46-46-35



409-F

78/78/78-35



409-G

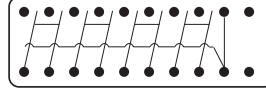
9-POLE (CONT.)

/42/44/42/44/42/44-35



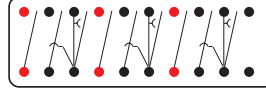
409-H

77-77-77-77-61-35



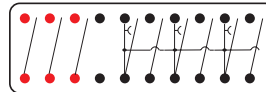
409-I

/42/46/42/46/42/46-35



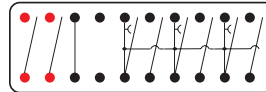
409-K

42/42/42-35-69-71-69-71-69-70



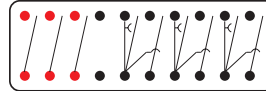
409-L

/42/42/61-35-69-71-69-71-69-70



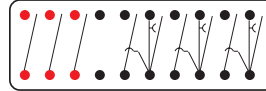
409-M

/42/42/42/35-45-45-45



409-N

/42/42/42/35-46-46-46



409-O

Other 9-Pole

Standard Arrangement:

/42/42/61/35-45-45-45

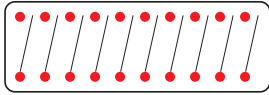
409-S

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow
kw: Black and White

STATES

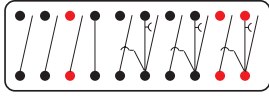
FRONT VIEW - 10-POLE

42/42/42/42/42/42/42/42/42/42/



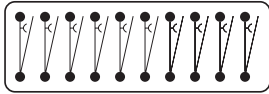
410-A

/42K/42G/42/61-46-46G-46R



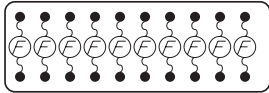
410-A1

72-72-72-72-72-72-72-72-72-72



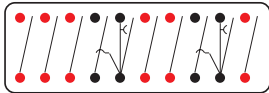
410-B

73/73/73/73/73/73/73/73/73/73/



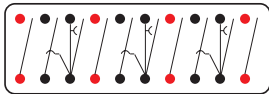
410-C

/42/42/42/46/42/42/46/42/



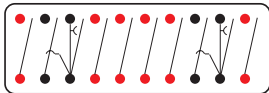
410-D

/42/46/42/46/42/46/42/



410-E

/42/46/42/42/42/42/46/42/



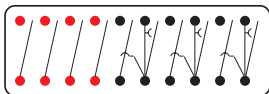
410-F

/42/44/42/44/42/44/42/



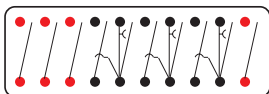
410-G

42/42/42/42/46-46-46



410-H

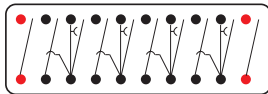
/42/42/42/46-46-46/42/



410-J

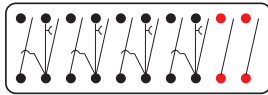
10-POLE (CONT.)

/42/46-46-46-46-/42/



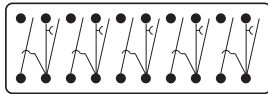
410-K

46-46-46-46/42/42



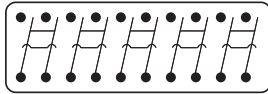
410-L

46-46-46-46-46



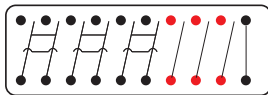
410-M

44-44-44-44-44



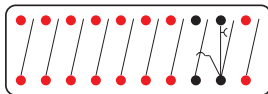
410-N

44-44-44/42/42/42/61/



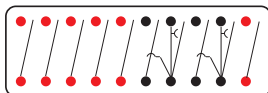
410-P

/42/42/42/42/42/42/42/46/42/



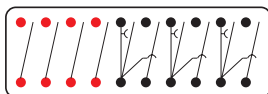
410-Q

/42/42/42/42/42/46-46/42/



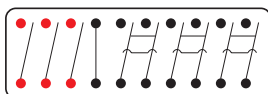
410-R

42/42/42/42/45-45-45



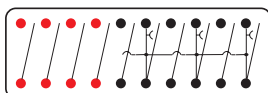
410-S

42/42/42/61/44-44-44



410-T

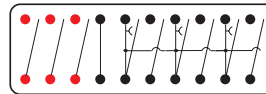
42/42/42/42/71-69-71-69-71-72



410-U

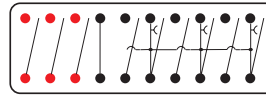
10-POLE (CONT.)

42/42/42/61/69-71-69-71-69-70



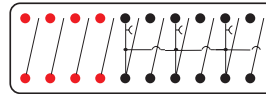
410-V

42/42/42/61/71-69-71-69-71-72



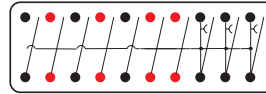
410-W

42/42/42/42/69-71-69-71-69-70



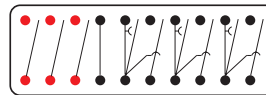
410-X

71/42/71/42/71/42/42/69-69-72



410-Y

42/42/42/61/45-45-45



410-Z

Other 10-Pole
Standard Arrangements:

42/42/42/61/46-46-46
410-T1

/42/46/42/46/42/71-69-42
410-Z1

**/42EU/46B/42WU/46G/42KWU/
46R/42KU/**
410-C7

**46RW/42E/46KW/42KW/46GW/
42B/42W**
410-C6

50/50/50/50/50
410-B5

**71G/42/71E/42B/71KW/42K/
42W/68W-68W-68W**
410-G1




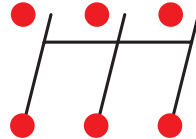

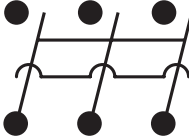

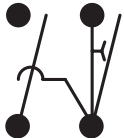
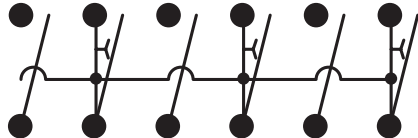

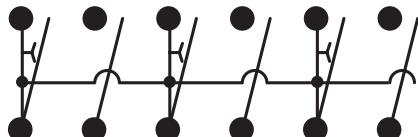

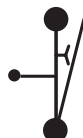
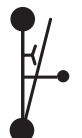



73/73/73/61/46-46-46
410-D7

Refer to next page for individual elements
to customize arrangements not shown on
these pages.

Color Key: k: Black b: Blue g: Green
e: Orange r: Red w: White n: Brown
y: Yellow kw: Black and White

STATES

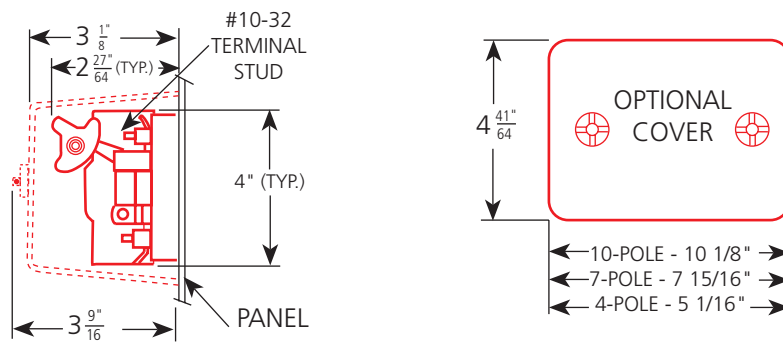
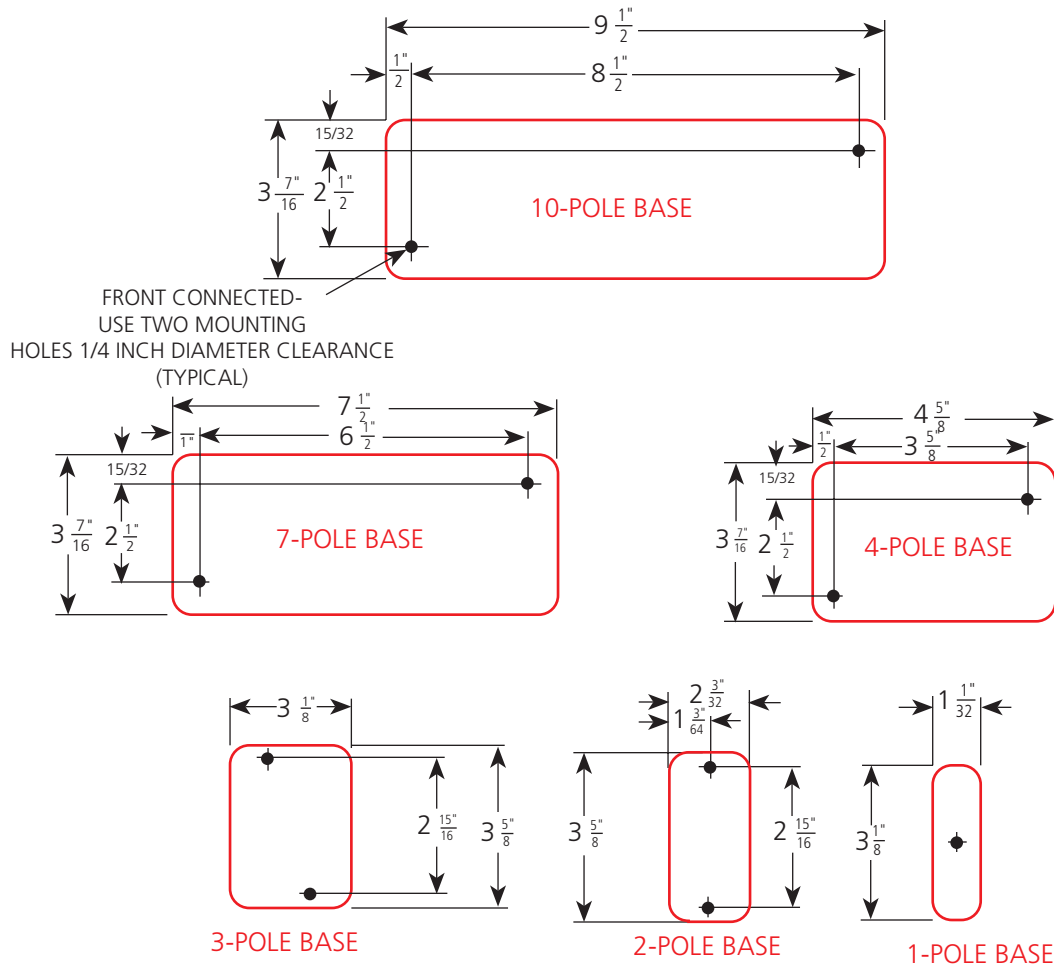
ELEMENTS FOR CUSTOMIZED SWITCHES NOT LISTED UNDER TYPICAL ARRANGEMENTS

<p>35</p>  <p>Blank Space</p>	<p>42</p>  <p>Single-Pole Potential</p>	<p>62</p>  <p>Ganged Double-Pole Potential</p>	<p>78</p>  <p>Ganged Three-Pole Potential</p>
<p>44</p>  <p>Ganged Two-Pole Short-Circuiting Current Assembly</p>	<p>79</p>  <p>Ganged Three-Pole Short-Circuiting Current Assembly</p>	<p>61</p>  <p>Through Bar</p>	
<p>46</p>  <p>Right-Hand Current Assembly Consists of Test Jack and Short-Circuiting Current Assemblies</p>	<p>84</p>  <p>Three Interconnected Right-Hand Current Assemblies</p>		
<p>45</p>  <p>Left-Hand Current Assembly Consists of Test Jack and Short-Circuiting Current Assemblies</p>	<p>85</p>  <p>Three Interconnected Left-Hand Current Assemblies</p>		
<p>72</p>  <p>Current Test Jack</p>	<p>68</p>  <p>Current Test Jack With Left-Hand Common Bar</p>	<p>69</p>  <p>Current Test Jack With Right-Hand Common Bar</p>	<p>71</p>  <p>Short-Circuiting Assembly With Right-Hand Common Bar</p>
<p>70</p>  <p>Short-Circuiting Assembly With Left-Hand Common Bar</p>	<p>73</p>  <p>30-Amp Fuse Mounting Clips</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. Barriers are provided between poles of opposite polarity. 2. Potential handles are red and current handles are black unless otherwise specified. 3. Specify adjacent handles to be ganged (yoked) if desired. 4. Fuse holder (assembly 73) does not include fuse. 5. Rating 30 amperes, 600 volts. 6. Arrange elements left to right, front view. 7. Covers are only available on 4, 7 and 10 pole bases. 8. Element No. 73 accepts standard cartridge fuses rated 600 VAC 30 AMP. Fuse dimensions must be 1/2" diameter and 2" in length. <p>(Fuses Not Included)</p>		

STATES

DIMENSIONS (IN INCHES)

FRONT-CONNECTED SWITCHES

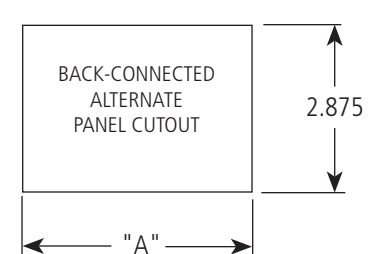
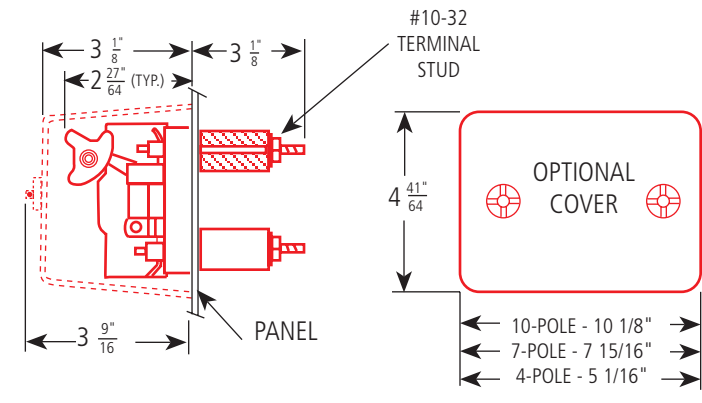
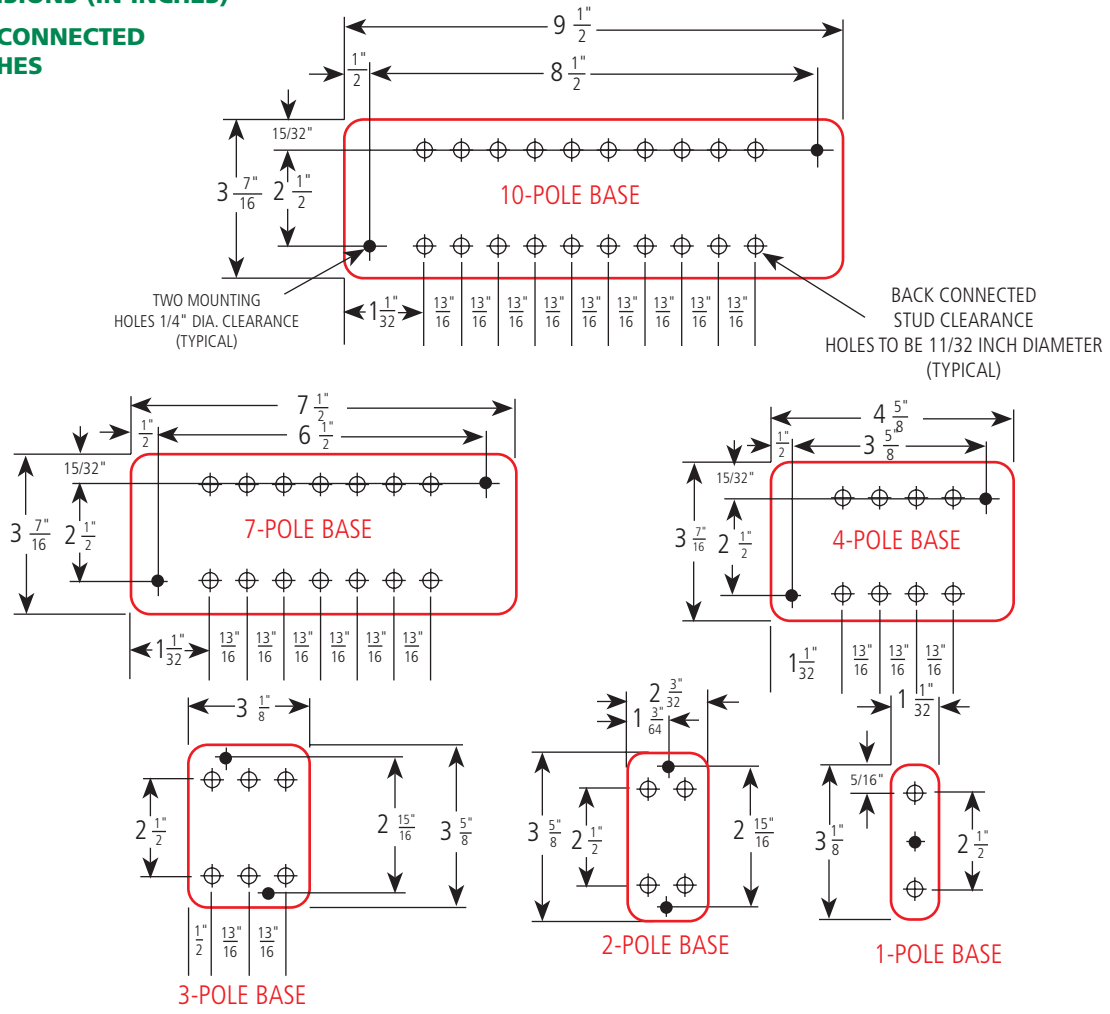


Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow kw: Black and White

STATES

DIMENSIONS (IN INCHES)

BACK-CONNECTED SWITCHES

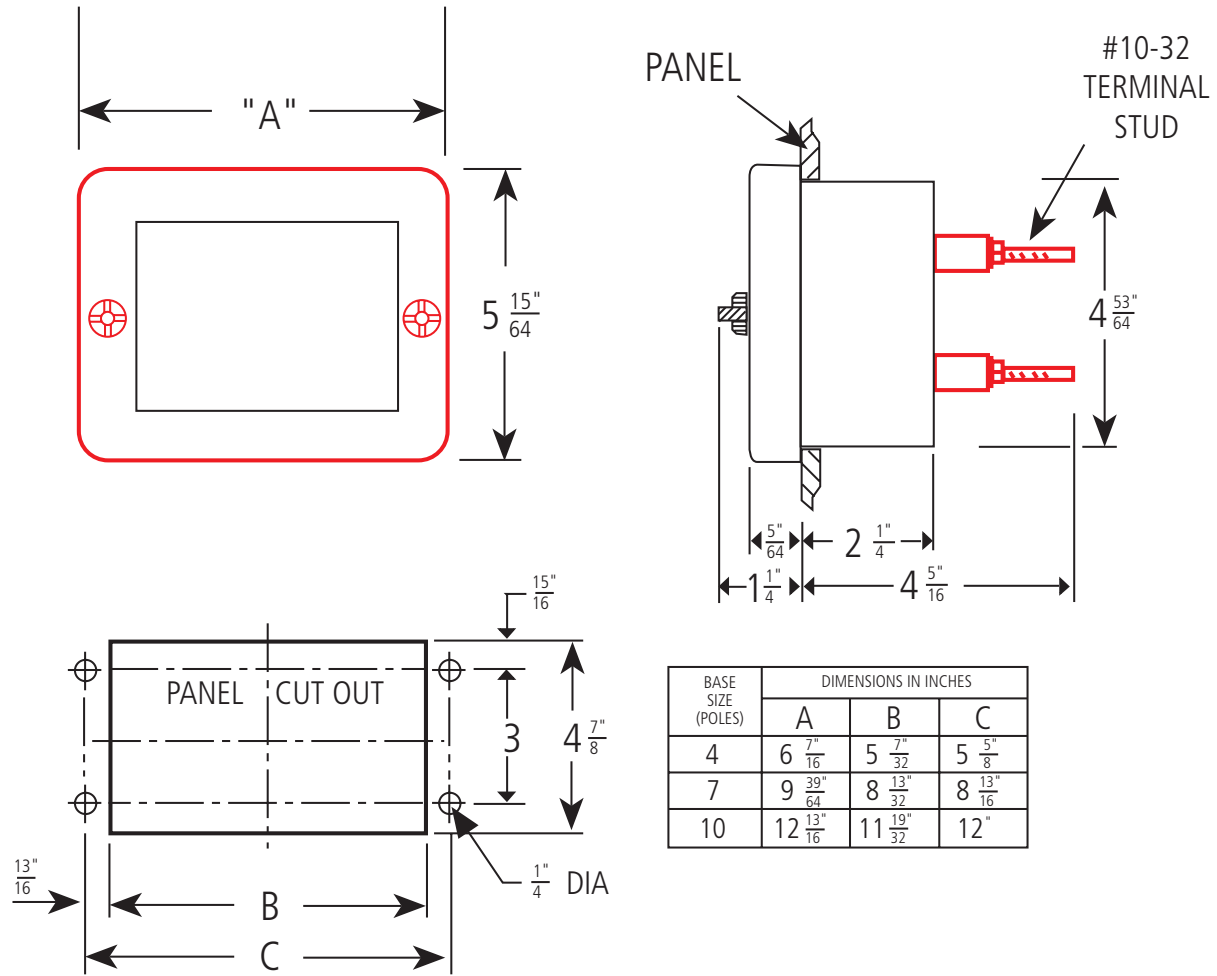


NUMBER OF POLES	DIMENSION "A"
4	2 13/16
7	5 1/4
10	7 11/16

Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow kw: Black and White

STATES

DIMENSIONS (IN INCHES) FLUSH-MOUNTED SWITCHES



Color Key: k: Black b: Blue g: Green e: Orange r: Red w: White n: Brown y: Yellow kw: Black and White

STATES

Type RTS Test Switches



RTS Switch features a convenient push-pull knob.

DESCRIPTION

STATES Type RTS Test Switches are designed to simplify and speed testing and check-out of relay, control and instrumentation systems. They eliminate the need to change connections and prevent open-circuiting CTs during tests. Featured is a unique arrangement of stationary and sliding contacts in a well insulated glass-filled polycarbonate body. RTS switches are essentially double-pole, double-throw switches operated by push-pull knob. Multiple switches made up of two to four units operated by a single shaft and knob are available in several arrangements (see table below).

RATINGS

600 volts, 15 amps

FUNCTION OF THE DIFFERENT UNITS

(When used in conjunction with relays)

Type C

Current Unit - Make-Before-Break

Short-circuits the current transformer and connects the relay current coil to the test terminals on the switch.

Type P

Potential Unit - Break-Before-Make

Opens the trip circuit and connects the relay contacts to the test terminals on the switch.

Type A

Ammeter Unit - Make-Before-Break

Connects current transformer to ammeter circuit on test switch before opening relay current coil circuit.

Type S

Single-Pole, Double-Throw Switch

The knob is pulled out to bring the switch to the “test” position. After testing is completed, the knob is pushed into its original position, assuring that CTs will not be left shorted and that the relay is properly reconnected to its circuit. A typical application would be for a dual unit switch, Part No. 29102-A, consisting of a potential and current unit. Pulling the switch to the test position will simultaneously open the trip circuit, short-circuit the CT and connect the relay’s current coil and contacts to test terminals on the switch.

DIMENSIONS

Requiring very little panel space, type RTS switches are mounted through a single $\frac{3}{8}$ inch hole in panels up to $\frac{1}{2}$ inch thick. Behind the panel, each double-pole, double-throw unit is only $2\frac{3}{8}$ inch high (including terminals) x $1\frac{1}{8}$ inch wide x $6\frac{1}{8}$ inch long. Single-pole, double-throw switches (Type S) are $4\frac{1}{8}$ inch long.

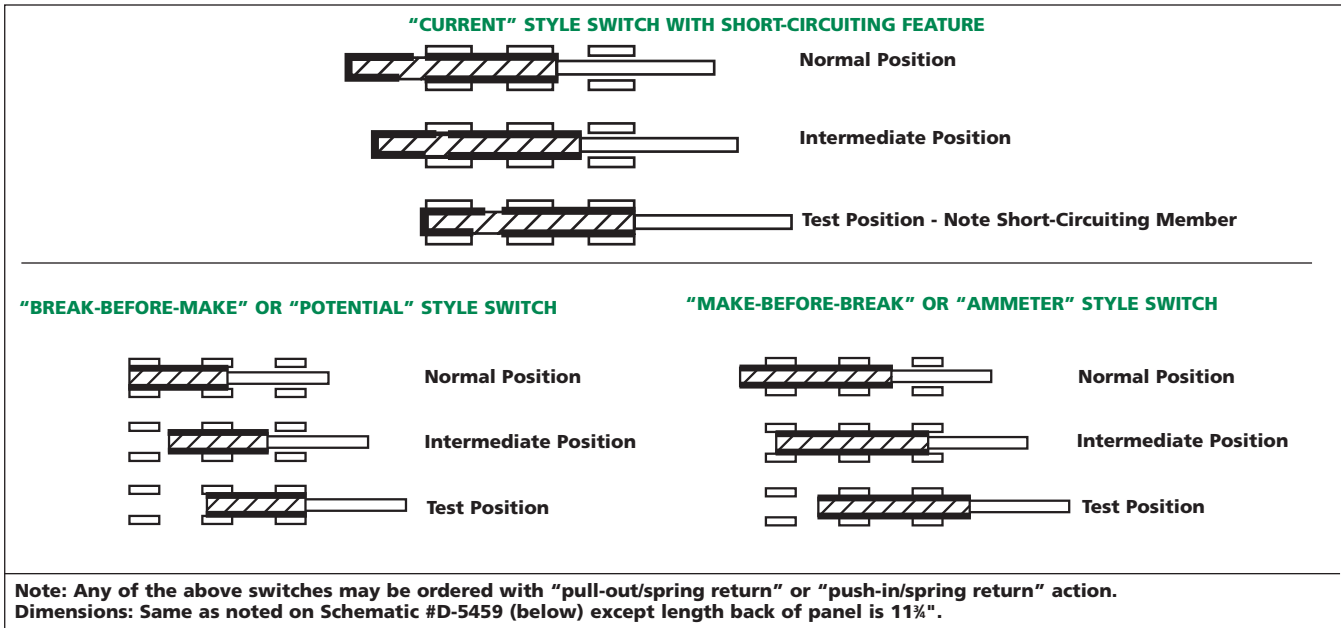
STANDARD ARRANGEMENTS

Type C: Current Unit			Type A: Ammeter Unit	Type P: Potential Unit	Type S: Single-Pole, Double-Throw Unit	
No. of Units	Unit Arrangement	Part No.		No. of Units	Unit Arrangement	Part No.
1	C	25100		3	SSS	29103-A
	P	R-261 00			PCP	29103-B
	A	27100			PPP	R-29103-C
	S	28100			PAP	29103-D
2	PC	29102-A			CPC	29103-E
	PP	R-29102-B			AAA	29103-F
	CC	29102-C			CCC	29103-G
	AA	29102-D		4	PCPP	29104-A
			CCPP		29104-B	
			CCCP		29104-C	

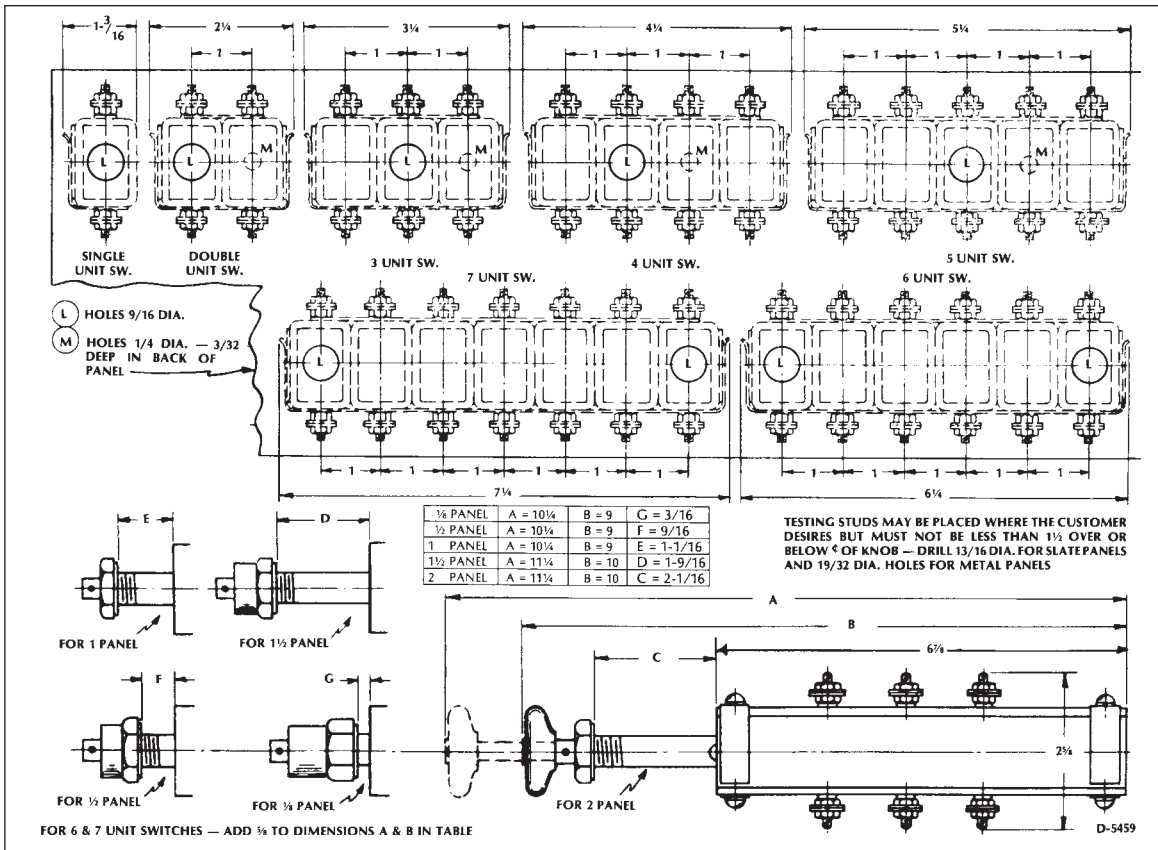
Note: “P” Potential Switches are supplied with red (R) knob unless specified with black knob.

STATES

SCHEMATIC DIAGRAM OF CERTAIN "RTS" SWITCHES



DIMENSIONS OF TYPE "RTS" SWITCHES



ORDERING INFORMATION

Contact Technical Sales for Ordering Information 1-800-325-4574

See Accessories on page 67.

STATES

Testing Accessories

- Test Paddles
- Test Paddle Attachment
- Clips
- Plugs
- Binding Posts
- Insulated Socket Wrench
- Jumper Strips
- Test Lead Kit

TEST PADDLES

The 10 and 14 pole potential test paddles are feature packed and have been designed to make a test technician's job easier.

Handle – use one hand to connect to test switch

Labeled – locate connector to corresponding switch

Use for STATES FMS Test Switch and ABB FT-1 10 Pole Test Switch.

Part No. V1TP10 - 10 Pole Test Paddle

Part No. FTP14 - 14 Pole Test Paddle

The TPA10 Test Paddle Attachment gives you more ways to connect when using the STATES FTP10, 10 Pole Test Paddle, for testing.

Part No. TPA10 - 10 Pole Test Paddle Attachment

Test Paddle Knobs are also available under Part No. 677099.

CLIPS

Crocodile Clip

Part No. 40051B - Black

Part No. 40051R - Red

This small clip has slender, strong jaws with teeth that mesh along the entire length as well as on the front end. It can be insulated with only jaws exposed.

Potential Clip

Part No. 40251B - Black

Part No. 40251R - Red

This handy clip is especially suited to connecting potential leads to potential screws in 3-wire meter terminal chambers.

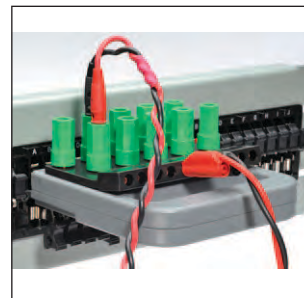
Test Clips

STATES test clips are valuable timesavers in any electrical work requiring quick, temporary connections. Strong jaws bite through corrosion to ensure a good connection.

Amperes	Jaw Spread	Part No.	Color
10	3/8 in.	11985B	Black
10	3/8 in.	11985R	Red
20	5/16 in.	11980B	Black
20	5/16 in.	11980R	Red
50	1 in.	11981B	Black
50	1 in.	11981R	Red
100	1 1/2 in.	11982B	Black
100	1 1/2 in.	11982R	Red



10 Pole Test Paddle



10 Pole Test Paddle shown with Attachment



Test Paddle Knobs



Crocodile Clip



Potential Clip



Test Clips

STATES

PLUGS

Test Plug

Part No. 15000

Used in connection with the current shunt jack on STATES test switches, this plug provides a safe, quick connection for indicating or testing instruments without opening current transformer secondaries or disturbing permanent wiring. The plug is easily inserted at right angles to the test block.



Plug Receptacles

Plug receptacles are used with STATES straight plugs.

Receptacles for 1 in. Insulated Panel Mounting

	25 Ampere	75 Ampere
<u>Color</u>	<u>Part No.</u>	<u>Part No.</u>
Black	40067B	40017B
Red	40067R	40017R



Receptacles with Insulators for Metal Panel Mounting

	25 Ampere	75 Ampere
<u>Color</u>	<u>Part No.</u>	<u>Part No.</u>
Black	40141B	40139B
Red	40141R	40139R

Plug for Type A Bottom-Connected Watthour Meter Terminals



Part No. 40202B — Black
 Part No. 40202R — Red
 These handy plugs are designed for making potential connections up through the small holes in bottom-connected watthour meter terminals. Pin is $\frac{1}{8}$ inch in diameter.

Interchangeable Right-Angle Pin Terminals

Ideal for making connections in tight places. States pin terminals can be screwed into the side or end of the insulated handle, simply by removing the setscrew. The handle can be purchased separately, or in combination with any of four different terminals.

(a) Handle only

Part No. 40220B Black
 Part No. 40220R Red

(b) $\frac{1}{4}$ in. terminal

Part No. XP28 (shown screwed into handle)

(c) $\frac{3}{16}$ in. terminal

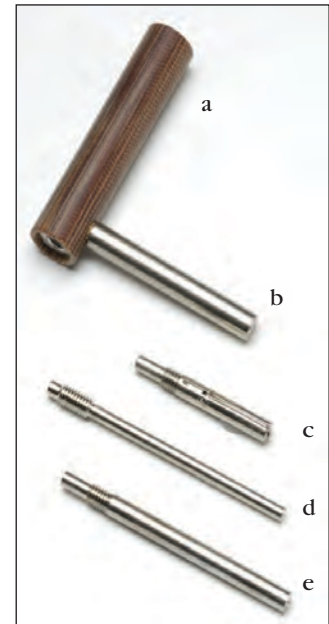
Part No. XP34

(d) $\frac{1}{8}$ in. terminal

Part No. XP101

(e) $\frac{3}{16}$ in. straight pin terminal

Part No. XP29
 (1 $\frac{13}{16}$ in. long)



STATES

PHENOLIC HEAD BINDING POSTS

The body is a bolt with internal and external thread and can be fastened securely to the switchboard or other base by one hex nut. The binding head and stud collar are made of molded phenolic. The head screws into the body with a long thread that makes a good contact and prevents the tendency of the head to fall off and become lost. All metal parts are brass.

Part No. 40091B (black)

Part No. 40091R (red)



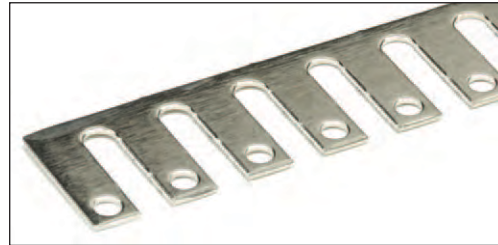
JUMPER STRIPS

Part No. TBT167 2 Pole Strap

Part No. TBT168 58 Pole Strap

(The TBT168 can be cut to the required length)

This nickel-plated jumper strip is made specially for the STATES Type NT & ZWM Terminal Blocks and the STATES Type MTS Test Switches.

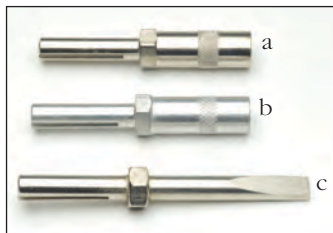


INSULATED SOCKET WRENCH



Part No. 16028

This compact, lightweight, 7 inch wrench with insulation to the socket head has a hollow shank that extends 2½ inches over a ⅜ inch stud and 1⅞ inches over a ⅝ inch stud. It is designed for use as a ½ inch socket wrench or as the handle for the following screwdriver and socket adapters:



(a) Socket, ⅜ in.

Part No. 16027

(b) Socket, ⅝ in.

Part No. 16025

(c) Screwdriver

Part No. 16022

FMS 10 Pole Test Lead Kit



This kit can be used with:

- **ABB FT-1**
- **STATES FMS 10 Pole Test Switches**
- **Westinghouse Mechanical Relays**

To order complete kit, please use Part. No. FTPKIT-V1

Part No. FTPKIT-V1 contains the following

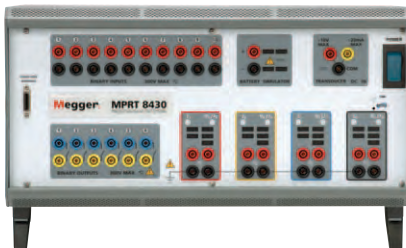
Item	Part No.	Description	QTY
A	V1TP10	FMS 10 Pole Potential Test Paddle	1
B	150LS	I PROBE - (15000) Leads W/Red and Black Lugs	1
C	620088	*15923 - Test lead, red, 6 mm dia., 150 cm long, use with current outputs (up to 30 Amps) CAT II Insulation	1
		*15924 - Test lead, black, 6 mm dia., 150 cm long, use with current outputs (up to 30 Amps) CAT II Insulation	1
*We do not sell the 15923 and 15924 individually, only combined/twisted into Part No. 620088.			
D	684025	Test lead, red, 200 cm long, use with voltage/current (up to 15 Amps) and timer, CAT II insulation	1
D	684026	Test lead, black, 200 cm long, use with voltage/current (up to 15 Amps) outputs and timer, CAT II insulation	1
E	684027	Lug adapter, red, 6.2 mm, use with voltage/current (up to 30 Amps) outputs and timer, CAT II Insulation	1
E	684028	Lug adapter, black, 6.2 mm, use with voltage/current (up to 30 Amps) outputs and timer, CAT II Insulation	1
F	684029	Lug adapter, red, 4.1 mm, use with voltage/current (up to 20 Amps) outputs and timer, CAT II Insulation	1
F	684030	Lug adapter, black, 4.1 mm, use with voltage/current (up to 20 Amps) outputs and timer, CAT II Insulation	1

The only thing missing here is a Megger MPRT Relay Test Set!



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Show this page to your relay test engineers. See if they use the MPRT to test your protection relays. If not, maybe they should.



They can call this number and request a hands-on demonstration, 1-800-723-2861 ext. 3519 and ask for Mike Ditmore.

Oh yes, STATES® is a division of Megger and Megger is a manufacturer of high quality electrical test instruments including the MPRT Relay Test Set.

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