FT, MT, & RT

TEST SWITCHES AND TEST PLUGS

KEY BENEFITS

GE Test Switches and Test Plugs have all the features necessary for applications involving the measurement of individual currents and voltages to facilitate testing for metering, substation instrumentation, and protection devices. The make before-break current short circuit feature allows test personnel the convenience of isolating equipment from current transformer circuits.

Voltage measurement can be made directly on the test switch without disturbing existing connections. There is a test clip provision located on the top of each pole that allows connection with standard spring clip test leads.

APPLICATIONS

FT Test Switch

The GE FT test switch and associated test plugs provide a safe, simple, immediate and reliable method to isolate equipment and measure system current and voltage during field testing and commissioning.

RT Rack Mount Test Switches

The GE RT switch assemblies for rack and switchboard mounting permit convenient isolation of switchboard relays, meters and instruments. RT racks allow quick and easy multi-circuit testing by conventional test methods and for faster installation into switchgear.

MT Test Switch

The GE MT electric utility metering style test switches are designed specifically for use with instrument transformer rated watt-hour meters in conjunction with instrument transformers.

FEATURES

FT Test Switch:

- Built with a maximum of fourteen individual poles, of potential, current, and current shorting switch units.
- FT Test Plugs are used in conjunction with the FT Switches to enable easy measurement, calibration, verification or maintenance of relay, meters and instruments.
- Protection: With the cover in place, a meter type seal can be placed through either of the cover studs to prevent unauthorized access. Standard black cover mounts when all switches are in the closed position only. A clear cover is available that can be installed and sealed with the switchblades in the open or closed position.

RT Test Switch:

- RT switches accommodate three FT switches on a 19" wide by 5.22" steel mounting panel providing up to 30 terminals.
- Color and finish can be customized, as well as adjustable rack heights for label options.
- Full-length clear cover standard; full-length black cover, individual clear covers, and individual black covers are available.
- Protection: Once the full-length clear cover is installed, it prohibits access to rack mounting screws. Available with optional clear shield to prevent inadvertent contact with live rear terminals.

MT Test Switch:

- Available with 4, 7,10, or 12 pole bases, of potential, current, and current shorting switch units.
- 1/8" Integral barriers are durable, removable, and extend above and beyond all switch assembly live parts.
- Switches available in nickel, silver, tin-plated, or bare copper. Handles available in up to 10 different colors, and customized configurations.

FT Specifications

Rating

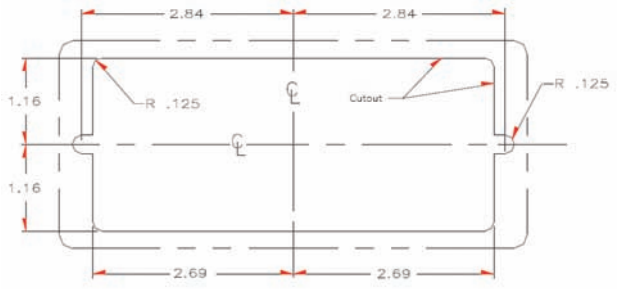
The standard FT Switches are rated at 600 volts and 30 Amps. The Switch meets or exceeds all requirements of ANSI / IEEE Standard C37.90 and UL recognized.

Mounting

FT Switches are designed for semi-flush mounting on the front of switchboard panels, facilitating inspection and accessibility.

Drilling Plan - Inches

Weight	Net Lbs.	Shipping Lbs.
FT Switch	1.4	1.6
Test Plug	1.2	1.4



FT Switch Construction

The base of the FT Switch is made of black electrical grade plastic material, which provides a though, insulated enclosure. Barriers are molded into the base (front and rear) to separate the switch units from one another. The barriers provide insulation between poles, and ample space between terminals.

Cover

FT Switches come with a black opaque cover or a clear see-through cover. Switch covers provide a tough insulated enclosure for the switch and are made from plastic material. The clear cover affords the user the option of leaving switch handles in the open position and replacing the cover while maintaining the provision for a meter type seal when some or all switch handles are in the open position. This feature allows the user to service electrical equipment while still complying with OSHA lockout/tag-out procedures. The clear cover can be ordered separately for retrofit to existing FT Switches. RT racks mounts come standard with a full length clear cover and can be sealed with a meter seal. Padlock option is available. Once secure, the cover prohibits access to rack mounting screws.

Fasteners

Captive fasteners are made of molded plastic with a threaded brass insert for easy cover installation and removal.

FT Switches are available in configuration of 1 to a maximum of 14 individual poles or switch units. Each pole identified by letter (A thru N), which is visible along the top of the base from left to right. The individual switch units are of knife blade type. There are three different types of switch units available: potential, current, and current shorting.

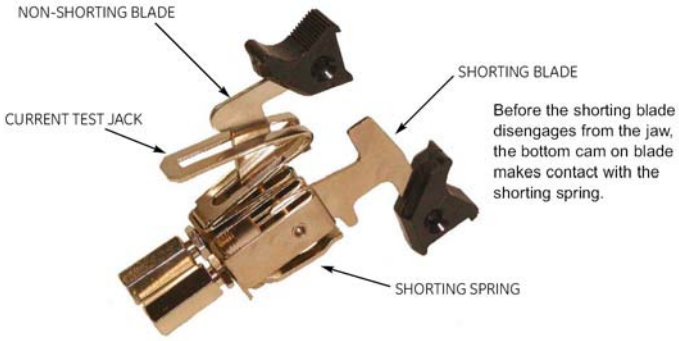


Figure 2: Blade assembly of two position pole "C-C" (Rear View, outside of base)

Switch Handles

Switch handles are made of a molded plastic insulating material typically black in color. Red handles can be supplied by replacing the "P" with "T" for potential handles and replacing "C" with "R" for current handles. Additional colors are available upon request.

Each handle has a dovetail indentation to hold a circuit identification label. Knife blade switches can be operated independently, or ganged together with a horizontal interlocking bar, to suit testing needs.

A hole runs through the middle of each switch handle to allow insertion of interlocking bars, 2 to 10 switch handles can be mechanically tied together.

Terminals

Connection terminals are located at the rear of the switch and can be either screw or stud type. Terminals are numbered 1 thru 28 for easy identification. Each pair of numbered terminals is associated with a matching pole designated by a letter on the front of the switch.

Figure 4: FT Switch Pole Positions as Shown on Front View

FT Test Plugs

The Test Plug with a maximum of 10 positions is designed to match the pole configuration of specific styles of FT Switches. Not every switch or relay pole configuration is suitable to accept a Test Plug. For available styles, see switch selection tables.

The Test Plug is typically used to connect devices measuring the current and voltages being applied to the switchboard relays, meters and instruments without interrupting or short-circuiting the circuit. Only the current test switches with the current jack must be opened before inserting the Series Test Plug. Connections to the test plug must be made before inserting the test plug into the FT Switch.

Figure 5: In-Service Series Test Plug

In-Service Test Plug

Provision is made only on current poles with shorting springs to automatically short-circuit current transformer circuits when the knife switches are opened prior to inserting the Test Plug.

Figure 6: Test Plug Style

This Test Plug is typically used to connect devices measuring the currents and voltages being applied to the switchboard relays, meters and instruments without interrupting or short-circuiting the circuit. Only the current test switches with the current jack must be opened before inserting the Series Test Plug. Connections to the test plug must be made before inserting the test plug into the FT Switch. Before inserting the Test Plug, all switches that are opposite bi-conductor paddle switchblades must be placed in the full open position.

Single Pole Current Test Plug with Open CT Protection

- New design with open current transformer (CT) protection prevents shock hazards, outages, and erroneous meter readings all associated with open CTs
- Eliminates risks due to operator error, incorrect equipment settings, and deviation from correct test procedures
- Added safety for operators and technicians
- Provides a safe, simple, fast, and reliable method to isolate and service installed equipment

How it works

If a CT opens during operation:

- Test plug shorts the CT to protect the operator,
- Red LED provides visual indication of a fault

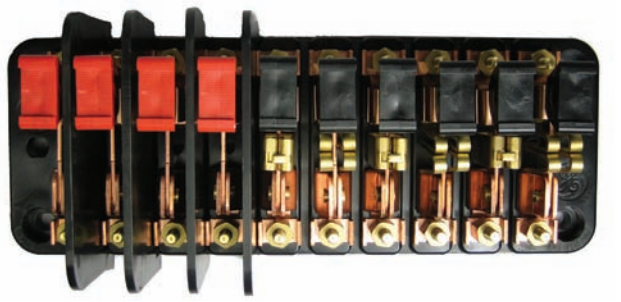
Features

- Ergonomic hand-held design allows in-service current measurement with an ammeter
- Ratings: 600 V, 20 A continuous
- LED indication of over-voltage protection operation
- Specially designed for ITI FT and MT test switches, which are recommended for all installations of CTs
- Two variations available
- ANSI/IEEE C37.90 standards

Part numbers:

SPTP-01 -open CT protection
SPTP-02 -No open CT protection

MT Specifications



Rating

The Standard MT switches are rated 600 Volts and 30 Amps. The switch meets or exceeds all requirements of ANSI/IEEE standard C12.9.

Mounting

The front-connected test switch 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. The mounting provides convenient inspection and testing.

MT Switch Construction

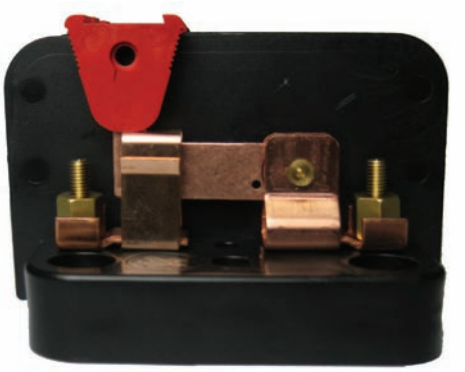
MT switch bases are available in 4,7,10 and 12 pole sizes. The base of the MT switch is made of black electrical grade plastic material, offering non-tracking, 600VAC, high strength and superior durability. Current carrying components are made of highly conductive nonferrous copper, bronze and phosphor bronze. Silver, tin, and nickel plating available for all conductive components. Barriers are durable and also removable for on site configuration changes. Insulating barriers are standard on all potential assemblies having 1" spacing or less to next switching pole. Additional barriers available upon request.

Cover

MT switches are available with a clear or black opaque over. Switch covers provide a tough insulating enclosure for the switch and are made from plastic material.

Switch Handles

Switch handles are made of a molded plastic insulating material. Unless otherwise specified potential handles are red and current handles are black, additional colors are available upon request. A hole for installing a horizontal mechanical lock bar is molded into each switch knob.



Non Standard FT Style Switch Selector

Step 1 The Switch body can support 1 to 10 poles in slot marked A through J
Enter a letter from the legend. Leave unused slots blank.

Position:

A	B	C	D	E	F	G	H	I	J

Example:

A	B	C	D	E	F	G	H	I	J
P	C -	- C	R	C	R -	-R	P	P	P

Legend
P=Potential, Black
T=Potential, Red
C=Current, Non-shorting, Black
C-C or C-C-C- or C-C-C-C = Current , Shorting, Black
R-R, R-R-R, R-R-R-R = Current, Non-shorting, Red
Additional colors available
(Note: some functions will require more than one slot in the switch body)

Step 2 (Optional)
If a tie bar is required then check this box ☐
and draw a dark heavy line over the poles to be joined.
(In the example above positions H, I and J will operate together.)

Step 3 Select a cover style
☐ Clear (installs over open closed switches)

☐ Black (installs only over closed switches)

Step 4 Select a rear terminal type

Screws (Standard) ☐ Or Studs ☐

Factory Use Only
Catalog Number Assignment_____

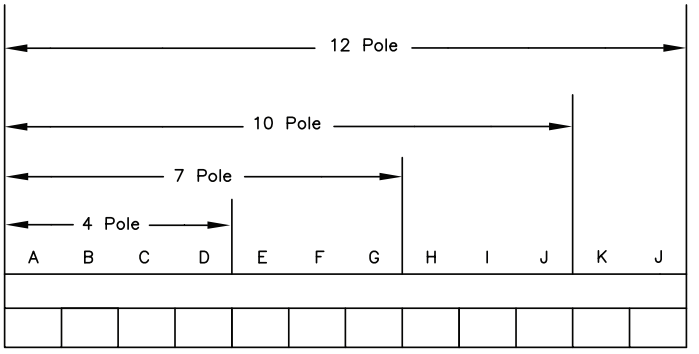
Non Standard MT Style Switch Selector

Step 1 Select 4, 7, 10 or 12 pole base

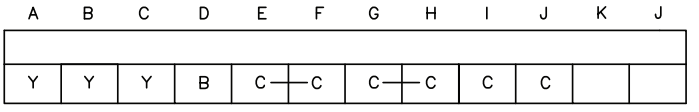
MT–__

Example: for 4 pole base MT–4

Step 2 Select appropriate switch symbol (refer to Legend) and place in the desired position shown below.



Example: MT–10



Legend

P=POTENTIAL, Red
C=CURRENT (NON–SHORTING), Black
C–C or C–C–C or C–C–C–C=CURRENT (SHORTING), Black

O=POTENTIAL – orange handle
Y=POTENTIAL – yellow handle
G=POTENTIAL – green handle
B=POTENTIAL – blue handle
W=POTENTIAL – white handle

CO=Current Non–shorting – orange handle
CY=Current Non–shorting – yellow handle
CG=Current Non–shorting – green handle
CB=Current Non–shorting – blue handle
CW=Current Non–shorting – white handle

CO–CO=Current shorting – orange handle
CY–CY=Current shorting – yellow handle
CG–CG=Current shorting – green handle
CB–CB=Current shorting – blue handle
CW–CW=Current shorting – white handle

* Brown, Purple, and Gray available upon request

Factory Use Only
Catalog Number Assignment_____

Step 3 (Optional)
If a tie bar is required then check this box ☐
and draw a dark heavy line over the poles to be joined.

Step 4 Select a cover style (optional)

☐ Clear (installs over open closed switches)

☐ Black (installs over open closed switches)

Catalog Number for FT Style Switches

FT C - 074 S

Cover
Black -------- (Blank)
Clear -------- **C**

Configuration
See website,
www.GEDigitalEnergy.com

Terminals
Screws ------ (Blank)
Studs -------- **S**

Catalog Number for MT Style Switches

MTC - 4 - 001 - N

Cover
No Cover ------- (Blank)
Clear ------- C
Black ------- B

Base Selection
4 Pole -------- 4
7 Pole -------- 7
10 Pole -------- 10
12 Pole -------- 12

Configuration
See chart page 16

No Plating (Blank)
Nickel Plating ---- N
Tin Plating ---- T
Silver Plating ---- S

Catalog Number for RT Style Rack Mount Switches

Left | Center | Right

1 2 3 4 5 6 7 8 9 10 11 12 13 14

R T 2 G G 0 6 6 0 8 4 1 2 5

RT-19" Rack

Terminal Connectors
*Screw ---------- **T**
Stud ---------- **S**

Panel Height
2 rack unit, 3.47"
3 rack unit, 5.22"
4 rack unit, 6.97"

Color
*ANSI 61 ------- **G**
ANSI 70 ------- **A**
Brush Al ------- **B**
Black ------- **X**

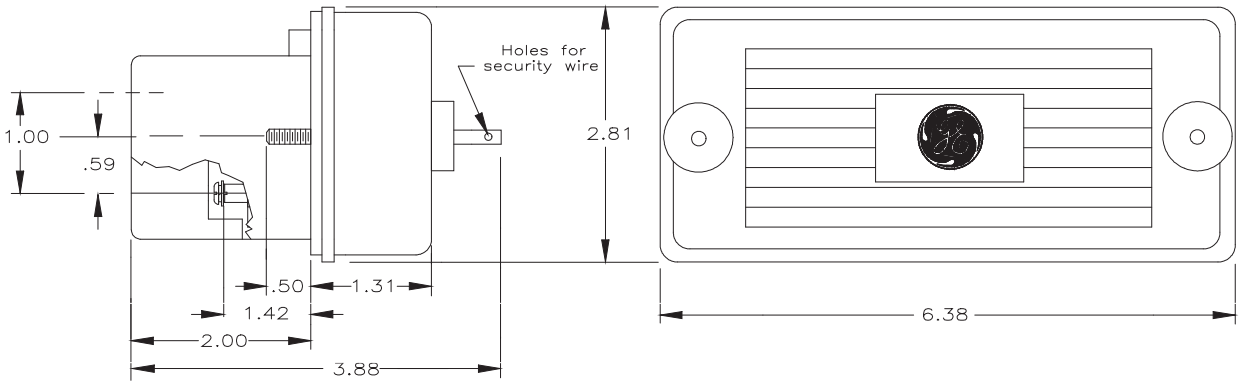
Cover
Full Length Clear ---------- **G**
3 Individual Clear Covers ---------- **A**
3 Individual Black Covers ---------- **B**
Full Length Black ---------- **C**

Position # (As viewed from front)**
Left
Center
Right
000 = Blank

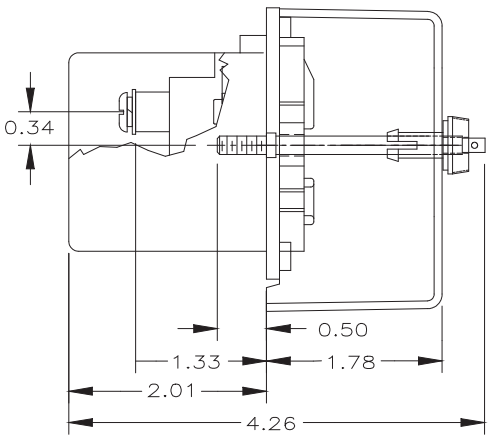
* Denotes standard configuration
** See on-line configurator for 3 digit codes @ www.GEITI.com

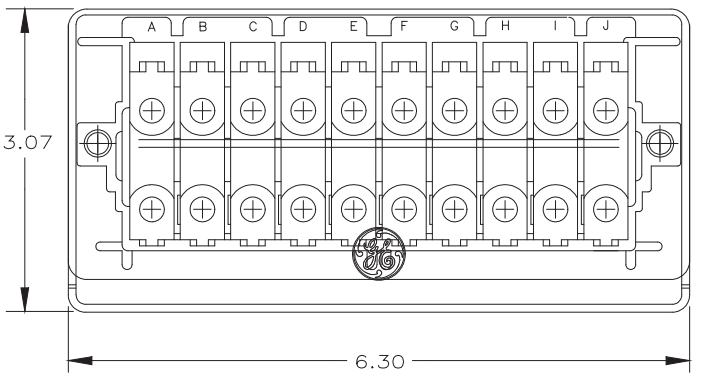
Dimensional Drawing - Type FT Test Switch

Black cover and screw terminals

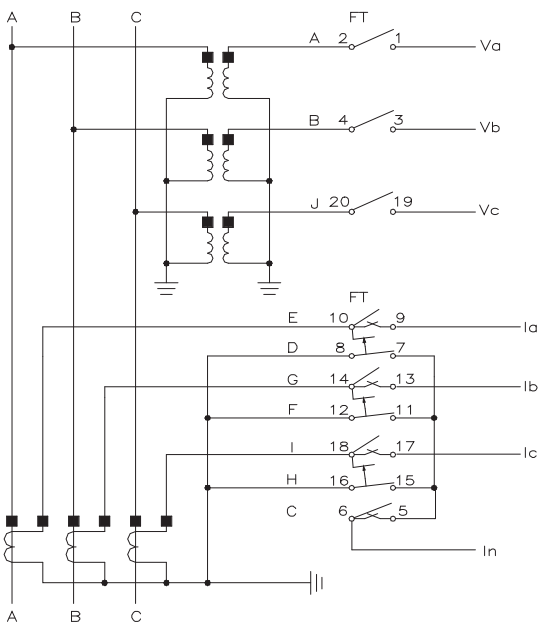


Clear cover and stud terminals





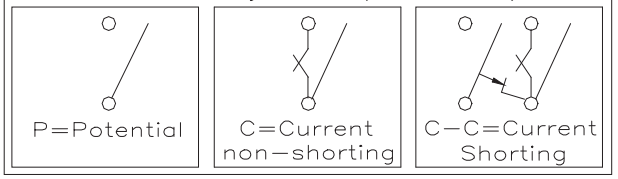
Typical FT Switch Connection Schematic using an FT-76 switch



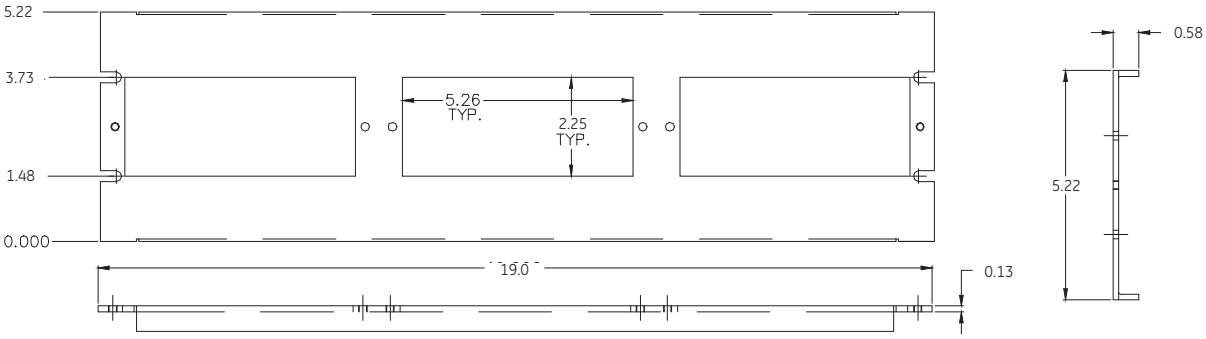
Terminal Arrangement (Rear View)

●19	●17	●15	●13	●11	●9	●7	●5	●3	●1
J	I	H	G	F	E	D	C	B	A
●20	●18	●16	●14	●12	●10	●8	●6	●4	●2

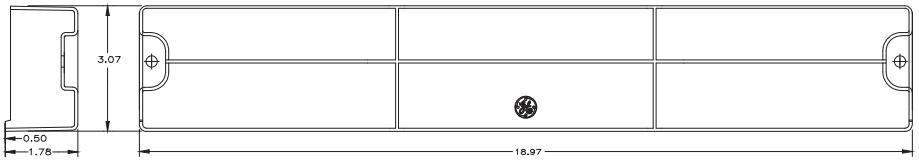
Schematic Symbols (Front View)



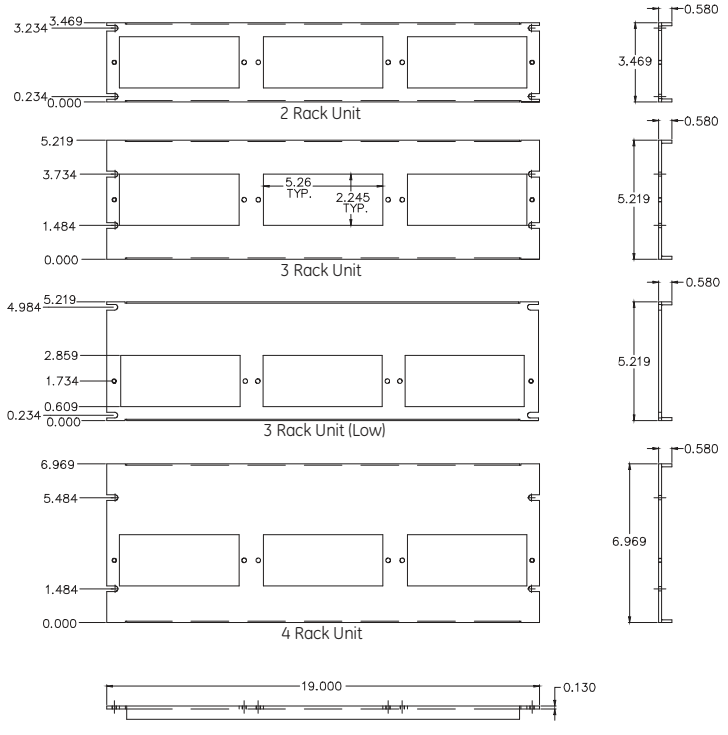
RT Mounting Racks

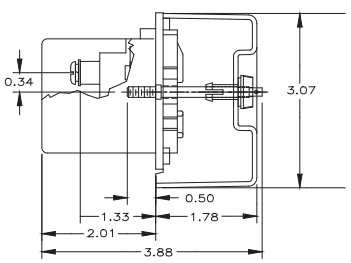


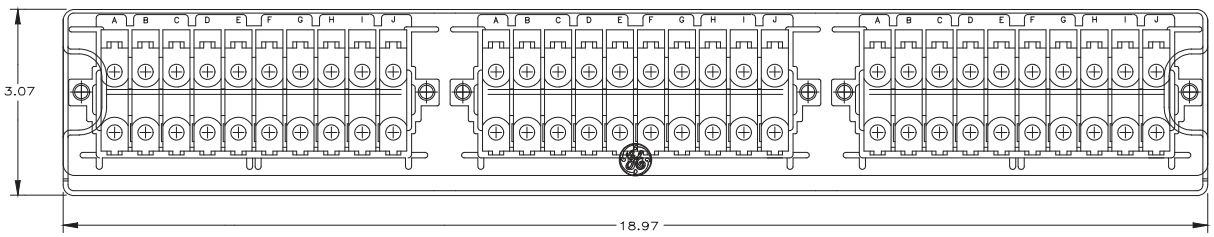
Side & Top View of Plastic Cover



Optional RT Mounting Racks

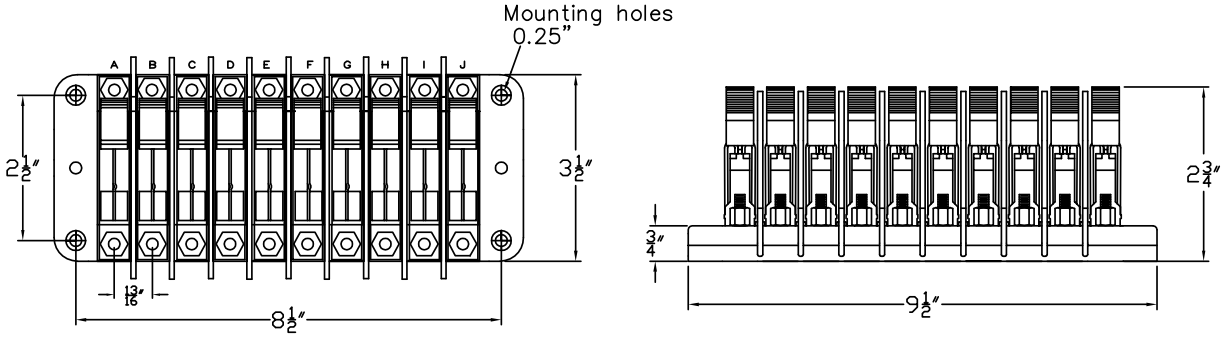


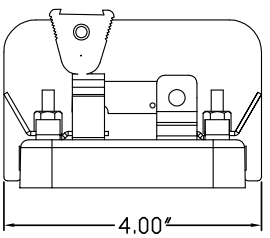




Dimensional Drawing - Type MT Test Switch

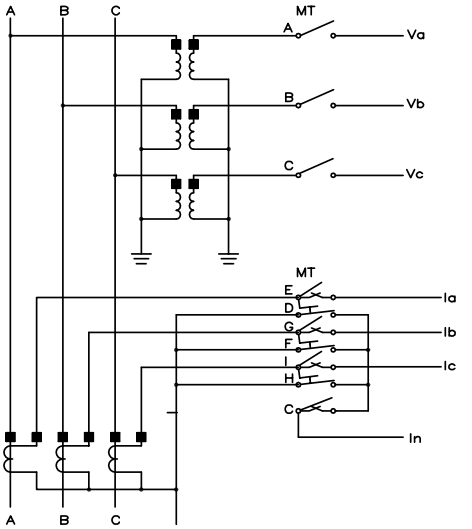
10 Pole configuration shown

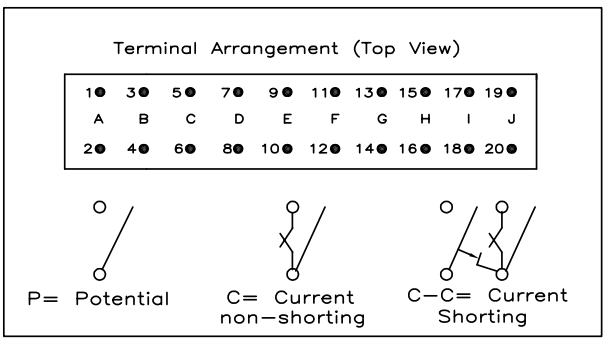


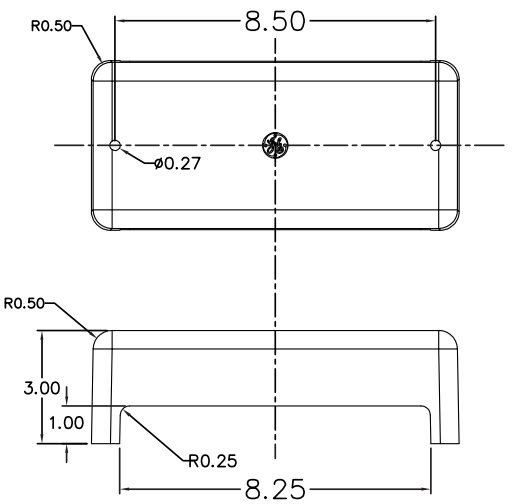


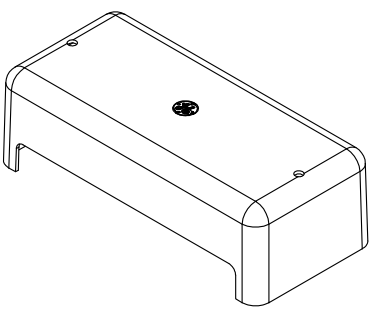
Note: Each terminal connection is provided with:
1–10/32 Terminal with hex nut.

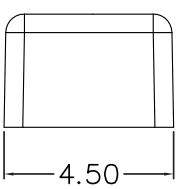
Typical 10 Pole MT Switch Connection Schematic

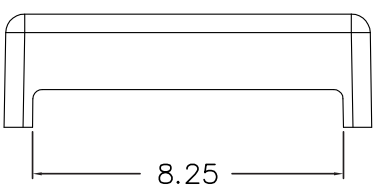




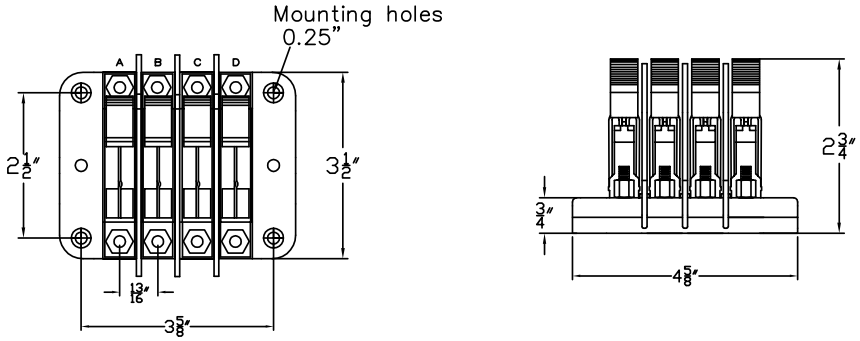




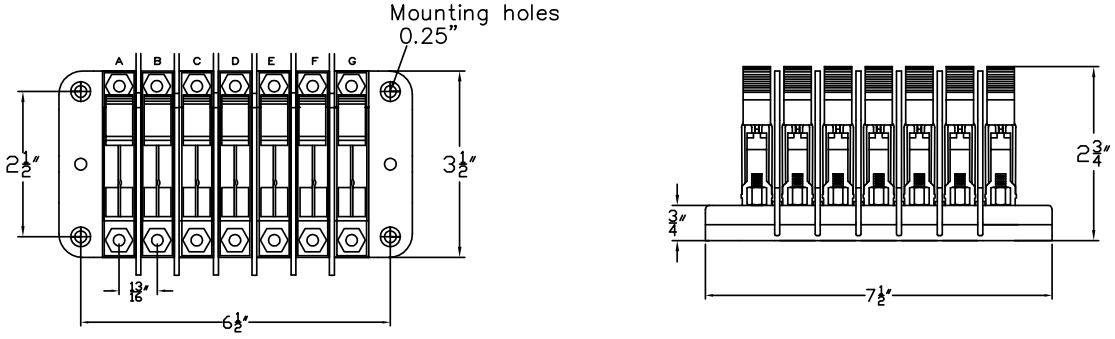




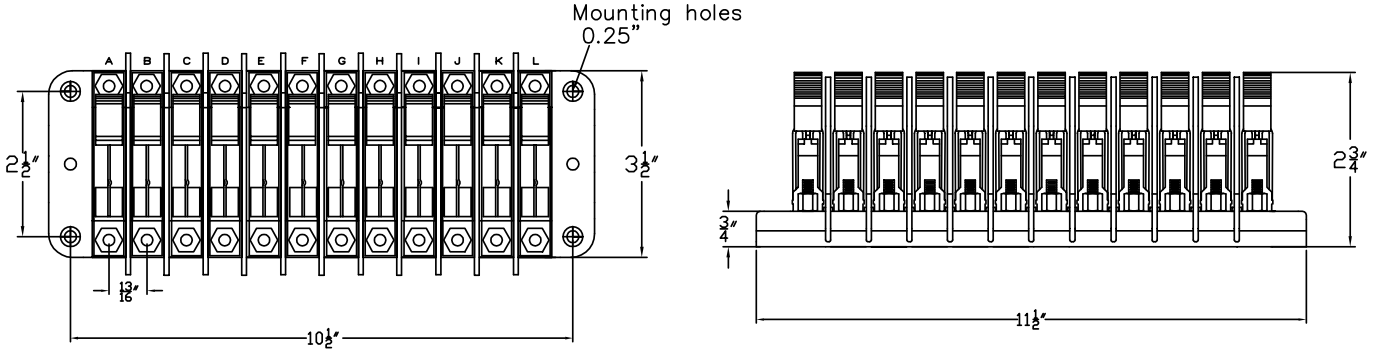
4 Pole dimensions shown



7 Pole dimensions shown



12 Pole dimensions shown



Configuration Selection Chart

INDIVIDUAL FT SWITCH NUMBER	POLES			SWITCH CONFIGURATION P=POTENTIAL * C=CURRENT (NON-SHORTING) * C-C=CURRENT (SHORTING)										TEST PLUG NUMBER
	TOTAL	V	A	A	B	C	D	E	F	G	H	I	J	
-001	2	2	0	P	P									TP-109
-002	2	2	0				P			P				TP-109
-003	2	0	2		C———C									TP-106
-004	2	0	2						C———C					TP-107
-005	2	0	2								C———C			TP-101
-006	4	4	0	P	P	P							P	TP-109
-007	4	4	0	P	P							P	P	TP-109
-008	4	4	0	P							P	P	P	TP-109
-009	4	4	0			P	P	P	P					TP-109
-010	4	2	2	P	P						C———C			TP-101
-011	4	2	2	P							C———C		P	TP-101
-012	4	0	4		C———C		C———C							TP-108
-013	4	0	4						C———C		C———C			TP-102
-014	4	0	4		C	C	C	C						
-015	5	5	0	P	P						P	P	P	TP-109
-016	5	3	2	P	P						C———C		P	TP-101
-017	5	3	2	P	C———C		P						P	TP-108
-018	5	1	4		C	C		C		C			P	
-019	5	0	5	C		C		C		C		C		
-020	6	6	0	P	P	P	P					P	P	TP-109
-021	6	6	0	P	P	P					P	P	P	TP-109
-022	6	6	0				P	P	P	P	P	P		TP-109
-023	6	4	2	P					P	P	C———C		P	TP-101
-024	6	3	3	P	P						C———C		P	TP-102
-025	6	2	4	P					C———C		C———C		P	TP-102
-026	6	0	6	C		C		C			C	C	C	
-027	6	0	6		C———C			C———C			C———C			
-028	6	0	6			C	C	C	C	C	C			
-029	6	0	6				C———C		C———C		C———C			TP-103
-030	6	0	6				C	C	C	C	C	C		
-031	7	7	0	P	P	P	P			P	P	P		TP-109
-032	7	7	0	P	P	P	P				P	P	P	TP-109
-033	7	7	0		P	P	P	P	P	P	P			TP-109
-034	7	7	0	P			P	P	P	P	P	P		TP-109
-035	7	7	0	P			P	P	P		P	P	P	TP-109
-036	7	5	2	P	P	P	P	P			C———C			TP-101
-037	7	5	2	P	P				C———C		P	P	P	TP-107
-038	7	5	2	P	C———C		P				P	P	P	TP-106
-039	7	4	3	P	P	C		C		C		P	P	TP-113
-040	7	3	4	P	P	P			C———C		C———C			TP-102
-041	7	3	4	P	P				C———C		C———C		P	TP-102
-042	7	3	4	P	C	C		C		C		P	P	
-043	8	8	0	P	P	P	P	P			P	P	P	TP-109
-044	8	8	0	P	P	P	P			P	P	P	P	TP-109
-045	8	8	0	P			P	P	P	P	P	P	P	TP-109
-046	8	6	2	P	P	P	P	P			C———C		P	TP-101
-047	8	6	2	P	P	P			C———C		P	P	P	TP-106
-048	8	4	4	P	P	P	P		C———C		C———C			TP-102
-049	8	4	4	P	P		C	C	C	C		P	P	
-050	8	4	4	P	P		C———C		C———C			P	P	TP-110

Configuration Selection Chart

INDIVIDUAL FT SWITCH NUMBER	POLES			SWITCH CONFIGURATION P=POTENTIAL * C=CURRENT (NON-SHORTING) * C-C=CURRENT (SHORTING)										TEST PLUG NUMBER
	TOTAL	V	A	A	B	C	D	E	F	G	H	I	J	
-051	8	4	4	P	C———C		P			P	C———C		P	TP-105
-052	8	4	4			P	P	P	C———C		C———C		P	TP-102
-053	8	2	6		C———C		C———C		C———C		P	P		TP-108
-054	8	2	6		C———C		C———C		C———C			P	P	TP-108
-055	8	1	7	P		C	C———C		C———C		C———C			TP-111
-056	8	0	8	C	C	C	C			C	C	C	C	
-057	8	0	8		C	C	C	C	C	C	C	C		
-058	8	0	8		C———C		C———C		C———C		C———C			TP-111
-059	9	9	0	P	P	P	P		P	P	P	P	P	TP-109
-060	9	9	0	P	P		P	P	P	P	P	P	P	TP-109
-061	9	6	3	P	P	P	P	P		C———C		C	P	
-062	9	5	4	P	P	P	P	P	C———C		C———C			TP-102
-063	9	5	4	P	P	P	P		C———C		C———C		P	TP-102
-064	9	3	6	P	P		C———C		C———C		C———C		P	TP-103
-065	9	0	9	C	C———C		C———C		C———C		C———C			
-066	10	10	0	P	P	P	P	P	P	P	P	P	P	TP-109
-067	10	9	1	C	P	P	P	P	P	P	P	P	P	
-068	10	8	2	P	P	P	P	P	P	P	C———C		P	TP-101
-069	10	7	3	P	P	P	P	P	P	C	C———C		P	
-070	10	6	4	P	P	P	P	P	C———C		C———C		P	TP-102
-071	10	6	4	P	P	P	C———C		P	P	C———C		P	TP-104
-072	10	6	4	P	C———C		P	P	P	P	C———C		P	TP-105
-073	10	6	4	C———C		C———C		P	P	P	P	P	P	
-074	10	4	6	P	P	P	C———C		C———C		C———C		P	TP-112
-075	10	4	6	P	C———C		P	C———C		P	C———C		P	
-076	10	3	7	P	P	C	C———C		C———C		C———C		P	TP-111
-077	10	2	8	P	C	C	C	C	C	C	C	C	P	
-078	10	2	8	P	C———C		C———C		C———C		C———C		P	TP-111
-079*	10	2	8	C———C		C———C		C———C		C———C *		P	P	
-080	10	1	9	C	C	C	C	C	C	C	C	C	P	
-081	10	0	10	C	C	C	C	C	C	C	C	C	C	
-082	10	0	10	C———C		C———C		C———C		C———C		C———C		
-083	10	10	0	P-T	P-T	P–T	P-T	P-T	P–T	P-T	P–T	P-T	P–T	
-084	10	4	6	P	P	P	P	C———C		C———C		C———C		
-085	10	2	8	C———C		C———C		C———C		C———C		P	P	
-086	10	3L	7	L	C———C		L	C———C		L	C———C		C	
-087	10	4	6	P	P	P	C———C		C———C		C———C		P–T	TP-112
-088														
-089	10	2	8	P	P	C———C		C———C		C———C		C———C		
-090	10	0	10	C	C———C		C———C		C———C		C———C		C	
-091	9	9	0	P	P	P	P	P	P		P	P	P	TP-114
-092	8	2	6	C	C	C	C	C	C	P	P			
-093	6	6	0	P	P	P	P	P	P					TP-114
-094	6	4	2	P	P	P	C———C		P					TP-115
-095	8	0	8	C———C				C———C		C———C		C———C		
-096	9	3	6	P	P	P	C———C		C———C			C	C	
-097	9	3	6	P	P	P	C———C		C———C		C———C			
-098	10	4	6	C———C		C———C		C———C		P	P	P	P	
-099	10	4	6	C———C		C———C		C———C		T	T	T	T	
-100	10	10	0	P	P	P	P	P	P	P	P	T	T	

Configuration Selection Chart

INDIVIDUAL FT SWITCH NUMBER	POLES			SWITCH CONFIGURATION P=POTENTIAL * C=CURRENT (NON-SHORTING) * C-C=CURRENT (SHORTING)										TEST PLUG NUMBER
	TOTAL	V	A	A	B	C	D	E	F	G	H	I	J	
-101	10	10	0	T	T	P	P	P	P	P	P	P	P	
-102	10	0	10	R——R		R——R		R——R		R——R		R——R		
-103	9	9	0	T	T	T	T		T	T	T	T	T	TP-109
-104	10	8	2	P	P	P	P	P	P	C——C		P	P	
-105	7	0	7			C	C——C		C——C		C——C			
-106	3	3	0	T				T					T	
-107	10	4	6	P	P	P	C——C		C——C		C——C		T	
-108	9	3	6	P	P	P	C——C		C——C		C——C			
-109	2	2	0	T									T	
-110	6	0	6	C——C		C——C		C——C						
-111	10	10	0	P	P	P	P	P	P	P	T	P	T	TP-109
-112	10	10	0	P	P	P	P	P	P	P	P	P	T	TP-109
-113	10	2	8	P	C——C		C——C		C——C		C——C		T	TP-111
-114	10	10	0	T	T	T	T	T	T	T	T	T	T	TP-109
-115	6	6	0	T	T	T	T					T	T	TP-109
-116	10	10	0	P	P	P	T	T	P	P	P	P	P	TP-109
-117	10	10	0	P	P	P	P	P	P	T	T	P	P	TP-109
-118	10	2	8	C——C		C——C		C——C		C——C		T	T	TP-111
-119	10	2	8	P	C——C		C——C		C——C		C——C		T	TP-111
-120	8	8	0	T	T	P	P			P	P	P	P	TP-109
-121	10	10	0	T	T	P	P	P	P	P	P	T	T	TP-109
-122	10	6	4	P	P	C	P	C	P	C	P	C	P	TP-111
-123	7	7	0	T	T	P	P				P	P	P	TP-109
-124	10	2	8	T	T	C——C		C——C		C——C		C——C		
-125	4	4	0	T	T	T							T	TP-109
-126	10	6	4	C——C		C——C		T	T	T	T	T	T	
-127	6	6	0				T	T	T	T	T	T		TP-109
-128	10	4	6	P	P	P	R——R		R——R		R——R		P	TP-112
-129	10	10	0	O	O	O	O	O	O	O	O	O	O	TP-109
-130	10	2	8	C——C——C——C				C——C——C			B	P	P	
-131	10	4	6	P	P	P	P	R——R		R——R		R——R		TP-112
-132	10	4	6	P	P	P	P	O	O	O	O	O	O	
-133	10	6	4	R	R	R	R	P	P	P	P	P	P	
-134	6	6	0					P	P	P	P	P	P	
-135	10	2	8	R	R	R	R	P	P	R	R	R	R	
-136	10	10	0	P	P	P	P	P	P	P	P	T	T	
-137	8	0	8	R	R	R	R			R	R	R	R	
-138	8	4	4	P	P		R	R	R	R		P	P	
-139	6	6	0	T	T	T	T					T	T	
-140	10	0	10	R	R	R	R	R	R	R	R	R	R	
-141	10	2	8	P	P	R——R		R——R		R——R		R——R		
-142	4	0	4		R	R	R	R						
-143	10	10	0	P	P	P	P	P	P	P	T	T	T	
-144	10	8	2	C——C		T	T	T	T	T	T	T	T	
-145	10	1	9	C——C		C——C		C——C		C	C——C		T	
-146	10	4	6	P	P	T	C——C		C——C		C——C		T	
-147	10	10	0	P	P	P	P	T	T	T	T	T	T	
-148	4	4	0				P——P——P——P							
-149	10	10	0	T——T		T	T	T	T	T	T	T	T	
-150	10	10	0	P	P	P	P	T	T	T	T	P	P	

Configuration Selection Chart

INDIVIDUAL FT SWITCH NUMBER	POLES			SWITCH CONFIGURATION P=POTENTIAL * C=CURRENT (NON-SHORTING) * C-C=CURRENT (SHORTING)										TEST PLUG NUMBER
	TOTAL	V	A	A	B	C	D	E	F	G	H	I	J	
-151	10	10	0	P	T	P	P	T	P	P	T	P	P	
-152	10	2	8	P	C———C		C———C		C———C		C———C		P	TP-111
-153	10	3	7	P	P	C	C———C		C———C		C———C		T	TP-111
-154	10	4	6	P	C———C		C———C		C———C		P	P	P	
-155	10	10	0	P	T	P	P	P	P	P	P	P	T	
-156	10	10	0	P	T	P	P	P	P	P	P	T	T	
-157	10	10	0	P	T	P	P	P	P	P	T	T	T	
-158	10	10	0	P	T	T	P	P	P	P	P	T	T	
-159	10	10	0	P	T	T	P	P	P	P	T	T	T	
-160	10	10	0	P	T	T	P	P	P	T	T	T	T	
-161	10	10	0	P	T	T	P	P	T	T	T	T	T	
-162	10	10	0	P	T	T	P	T	T	T	T	T	T	
-163	10	10	0	P	T	T	T	T	P	T	T	T	T	
-164	10	10	0	P	T	T	T	T	T	T	T	T	T	
-165	10	10	0	P	T	P	P	T	P	P	P	P	T	
-166	10	10	0	P	T	T	T	T	P	P	P	P	P	
-167	8	0	8		R———R		R———R		R———R		R———R			TP-111
-168	8	4	4			R	P	R	P	R	P	R	P	
-169	10	8	2	C———C		P	P	P	P	P	P	P	P	
-170	10	2	8	T	R———R		R———R		R———R		R———R		T	TP-111
-171	10	10	0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	TP-109
-172	10	1	9	C———C		C———C		C———C		C	C———C		P	
-173	10	10	0	P	P	T	T	T	T	T	T	P	P	
-174	10	10	0	P	P	T	T	T	T	T	T	P	P	
-175	10	10	0	O	O	O	O	O	Y	Y	Y	Y	Y	TP-109
-176	5	1	4		C		C	P	C		C			TP-109
-177	10	6	4	C———C		T	P	P	P	T	P	C———C		
-178	10	4	6	T	T	T	T	C———C		C———C		C———C		
-179	10	10	0	P	T	P	P	P	P	P	P	T	P	TP-109
-180	10	6	4	C———C		T	P	P	P	T	P	C———C		
-181	10	0	10	C———C———C———C				C———C———C———C				C———C		
-182	10	0	10	C———C		C———C		C———C		C———C———C———C				
-183	10	4	6	C———C———C———C				P	P	P	P	C———C		
-184	10	10	0	B	B	B	B	B	B	B	B	T	P	TP-109
-185	10	10	0	T	T	T	T	T	T	P	P	P	P	TP-109
-186	10	10	0	T	T	T	T	P	P	P	P	P	P	TP-109
-187	10	4	6	T	T	T	C———C		C———C		C———C		T	TP-112
-188	10	4	6	C———C		C———C		C———C		P	P	P	T	
-189														
-190														

P = POTENTIAL- black handle
T = POTENTIAL- red handle
C = Current Non-shorting - black handle
R = Current Non-shorting - red handle
C-C = Current shorting - black handle
R-R = Current shorting - red handle
O = POTENTIAL- orange handle
Y = POTENTIAL- yellow handle
G = POTENTIAL- green handle
B = POTENTIAL- blue handle
W = POTENTIAL- white handle

CO = Current Non-shorting - orange handle
CY = Current Non-shorting - yellow handle
CG = Current Non-shorting - green handle
CB = Current Non-shorting - blue handle
CW = Current Non-shorting - White handle
CO-CO = Current shorting - orange handle
CY-CY = Current shorting - yellow handle
CG-CG = Current shorting - green handle
CB-CB = Current shorting - blue handle
CW-CW = Current shorting - white handle

* = SHORT CIRCUIT WITHOUT JAW OR BLADE AT POSITION "H"
= FT-79* FT-85 APPEAR SIMILAR EXCEPT THAT FT-79 IS SHORT CIRCUIT WITHOUT JAW OR BLADE AT POSITION "H"

Note: Selection Chart does not include all possible configurations

MT Configuration Selection Chart

STANDARD MT SWITCH CONFIGURATIONS

P=POTENTIAL * C=CURRENT (NON–SHORTING) * C–C=CURRENT (SHORTING)

	SWITCH CATALOG NO.	A	B	C	D	E	F	G	H	I	J	K	J
4 POLE	MT–4–001	P	P	P	P								
	MT–4–002	P	P	C——C									
	MT–4–003	C——C		C——C									
	MT–4–004	C	C	C	C								
	MT–4–005	P	C——C		P								
7 POLE	MT–7–001	P	P	P	P	P	P	P					
	MT–7–002	C	C	C	C	C	C	C					
	MT–7–003	P	C——C		P	C——C		P					
	MT–7–004	P	P	P	C——C		C——C						
	MT–7–005	P	P	C——C		P	P	P					
	MT–7–006	P	C——C		P	P	P	P					
	MT–7–007	P	P	P	P	C——C		P					
	MT–7–008	P	C——C		C——C		C——C						
	MT–7–009	P	P	C——C		C——C		C					
	MT–7–010	P	P	P	P	P	C——C						
10 POLE	MT–10–001	P	P	P	P	P	P	P	P	P	P		
	MT–10–002	C	P	P	P	P	P	P	P	P	P		
	MT–10–003	P	P	P	P	P	P	P	C——C		P		
	MT–10–004	P	P	P	P	P	P	C	C——C		P		
	MT–10–005	P	P	P	P	P	C——C		C——C		P		
	MT–10–006	P	P	P	C——C		P	P	C——C		P		
	MT–10–007	P	C——C		P	P	P	P	C——C		P		
	MT–10–008	C——C		C——C		P	P	P	P	P	P		
	MT–10–009	P	P	P	C——C		C——C		C——C		P		
	MT–10–010	P	C——C		P	C——C		P	C——C		P		
	MT–10–011	P	P	C	C——C		C——C		C——C		P		
	MT–10–012	P	C	C	C	C	C	C	C	C	P		
	MT–10–013	P	C——C		C——C		C——C		C——C		P		
	MT–10–014	C——C		C——C		C——C		C——C		P	P		
	MT–10–015	C	C	C	C	C	C	C	C	C	P		
	MT–10–016	C	C	C	C	C	C	C	C	C	C		
	MT–10–017	C——C		C——C		C——C		C——C		C——C			
	MT–10–018	T	T	T	T	T	T	T	T	T	T		
	MT–10–019	P	P	P	P	C——C		C——C		C——C			
	MT–10–020	C——C		C——C		C——C		C——C		P	P		
12 POLE	MT–12–001	P	P	P	P	P	P	P	P	P	P	P	P
	MT–12–002	C	P	P	P	P	P	P	P	P	P	P	C
	MT–12–003	P	P	C——C		P	P	C——C		P	P	C——C	
	MT–12–004	P	P	P	P	P	P	C	C——C		P	C	C
	MT–12–005	P	P	P	P	P	C——C		C——C		P	P	P
	MT–12–006	P	P	P	C——C		P	P	C——C		P	P	P
	MT–12–007	P	C——C		P	P	P	P	C——C		P	P	C
	MT–12–008	C——C		C——C		P	P	P	P	P	P	P	P
	MT–12–009	P	P	P	C——C		C——C		C——C		P	P	P
	MT–12–010	P	C——C		P	C——C		P	C——C		P	P	P
	MT–12–011	P	P	C	C——C		C——C		C——C		P	P	P
	MT–12–012	P	C	C	C	C	C	C	C	C	P	C——C	
	MT–12–013	P	C——C		C——C		C——C		C——C		P	P	P
	MT–12–014	C——C		C——C		C——C		C——C		P	P	P	P
	MT–12–015	C	C	C	C	C	C	C	C	C	P	P	P
	MT–12–016	C	C	C	C	C	C	C	C	C	C	C	C
	MT–12–017	C——C		C——C		C——C		C——C		C——C		C——C	
	MT–12–018	C	C	P	C	C	P	C	C	P	C	C	P
	MT–12–019	P	P	P	P	C——C		C——C		C——C		P	P
	MT–12–020	C——C		C——C		C——C		C——C		P	P	P	P
	MT–12–021	C——C		C——C		C——C		C——C		C——C		C——C	
	MT–12–022	C——C		P	C——C		P	C——C		P	C——C		P

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