

Westinghouse



T-Tap™ Three Phase Main Line Sectionalizing Switch Padmount or Submersible

Type PM-1 Thru PM-10 and Type SS

Application:

The Westinghouse T-TAP switch is designed for sectionalizing three phase main feeders on URD circuits. It is multifunctional in that it also provides either fused or unfused tap-off points for single or three phase taps. The T-TAP Switch is available in either padmounted or submersible designs.

Specifications:

Maximum design voltage	15.5 KV
Basic insulation level	95 KV
Maximum continuous current	
Three phase switch	600 amp
Three phase taps	200 amp
Single phase taps	200 amp
Momentary rating	
Three phase switch	20,000 amp asymmetrical
Three phase taps or single phase taps	20,000 amp asymmetricalⓄ
Make and latch rating	
Three phase switch	20,000 amp asymmetrical
Three phase taps or single phase taps	20,000 amp asymmetricalⓄ

Ⓞ These ratings are dependent upon rating of separable connectors used by purchaser.

Padmounted Switch Bill of Material:

Basic Switch Module S

- 2-Westinghouse Safe-T-Vac three phase gang operated 600 amp load break vacuum switches
- 600 amp main bus
- 3-incoming and 3-outgoing 600 amp epoxy bushings suitable for use with purchaser's 600 amp elbow type connectors.
- Operating handle and storage rack
- Contact position viewing window.
- Maintenance access panel. Front mounted access panel release
- Penta-head locking bolt and weather-proof cover with provisions for padlocking

Unfused Tap Module T

- 600 amp main bus
- 200 amp Tap bus
- 3-200 amp bushing wells
- 3-parking stands for 200 amp loadbreak connectors
- Front and rear door locks

Fused Tap Module F

- 600 amp main bus
- 200 amp tap bus
- 3-200 amp bushing wells
- 3-parking stands for 200 amp loadbreak connectors
- Front and rear door locks
- 3-fuse wells designed for the Westinghouse CLB current limiting fuse
- 3-Sets hardware to allow the CLB fuse to be inserted or withdrawn with a hookstick

End Cover Module E C

- Either a right or left hand end cover for mounting next to a switch module when taps are not used.
- Front door lock

Lightning Arrester Module LA¹

- Tap module shell
- 3 – Westinghouse type LV Distribution Arresters mounted in the module

Lightning Arrester Module LA²

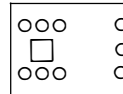
- Tap module shell
- 3 – Westinghouse type IVS Intermediate Arresters mounted in the module

General for All Switches

- Full length 2 in. x ¼ in. copper ground bus with ⅝ inch untapped holes on 6 inch centers for purchasers ground connections
- Each switch is given two coats of ASA-70 gray primer and one final appearance coat of telephone equipment green munsell color 7GY 3.29/1.5
- Nameplates include a one-line diagram of main switch and tap modules.

Submersible Switch Bill of Material:

The submersible switch has both the main line switch and the fused or unfused taps all within one compartment.



- 2 – Westinghouse Safe-T-Vac three phase gang operated 600 amp loadbreak vacuum switches
- 600 amp main bus
- 200 amp tap bus
- 3 – Incoming and 3 – outgoing 600 amp epoxy bushings suitable for use with purchaser's 600 amp elbow type connectors.
- 3 – fuse wells designed for the Westinghouse CLB current limiting fuse (depending on the style number of the switch).
- 3 or 6 (depending upon style number of switch) 200 amp bushing wells
- 3 – Sets hardware (if a fused tap switch is specified) to allow the CLB fuse to be inserted or withdrawn with a hookstick.
- 4 – Parking stands.
- Stainless steel top cover
- Fiberglass tank
- Ground pad
- Contact position viewing window
- Hold down lugs for vault mounting
- Operating handle and storage rack
- Nameplate includes single line diagram

Fuse Information

Fuse holders are a universal 3% inch inside diameter and will accept any of the CLB current limiting fuses 8.3 KV and 15 KV. For prices and specific fuse information refer to Westinghouse East Pittsburgh or catalog section P.L. 36-623. Fuse ratings and style numbers are as follows:

Ampere Rating	Style Number
30	591C152G01
45	591C152G02
60	591C152G03
80	449D598G01
100	449D598G02
125	449D598G03
15 KV 30	151D251G01
45	151D251G02
60	151D251G03

Note: 15 KV fuses will be available after August 1973.

Westinghouse Type Designations and Catalog Numbering System For Pad Mount and Submersible T-TAP™ Switches

Pad Mounted

- PM=Pad mounted switch module S
 Tap Module Shell=any one of the following
- 3 ea. – 200 amp. unfused taps T
 - 3 ea. – 200 amp. fused tap F
 - 3 ea. – Westinghouse type LV Distribution arresters LA¹
 - 3 ea. – Westinghouse type IVS Intermediate arresters LA²

Note 1. All tap module shells are the same size and may be connected in any order on the left or right side of the switch module S

Note 2. T-Tap switches with all tap module shells mounted on either the left or right side of the switch module S require an end cover shell E C for the other side of the switch.

Catalog Number System

- PM- 1= 1 tap module shell
- PM- 2= 2 tap module shells
- PM- 3= 3 tap module shells
- PM- 4= 4 tap module shells
- PM- 5= 5 tap module shells
- PM- 6= 6 tap module shells
- PM- 7= 7 tap module shells
- PM- 8= 8 tap module shells
- PM- 9= 9 tap module shells
- PM-10=10 tap module shells

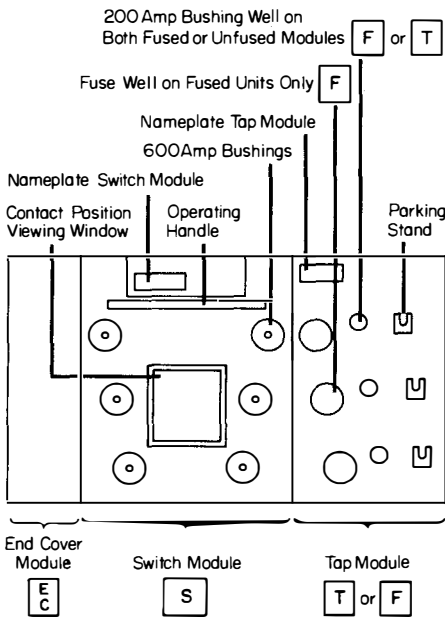
Submersible

- SS – 3T – submersible switch with 3 unfused taps
- SS – 3F – submersible switch with 3 fused taps
- SS – 6T – submersible switch with 6 unfused taps

Westinghouse



Style Numbered Pre-Engineered Pad Mount Configurations



Type

Style Number

Outline Drawing

Single Line Diagram

PM-1

634A706A01

175C481

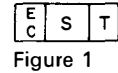
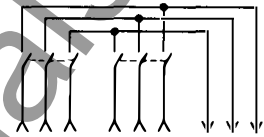


Figure 1



PM-1

634A703A01

175C481

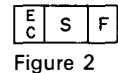
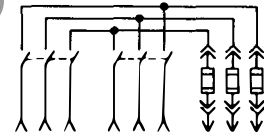


Figure 2



PM-2

634A737A01

175C482

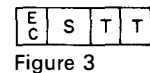
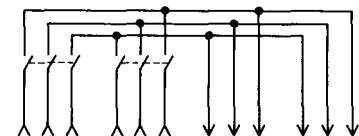


Figure 3



PM-2

634A736A01

175C482

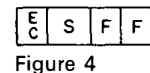
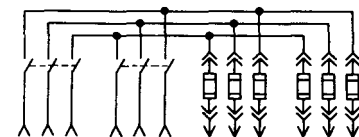


Figure 4



PM-3

634A729A01

175C483

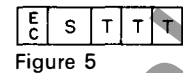
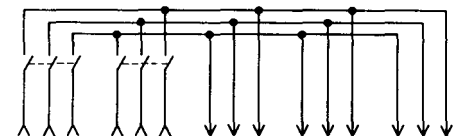


Figure 5



PM-3

634A742A01

175C483

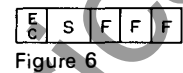
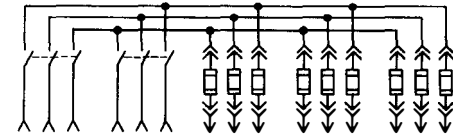


Figure 6



PM-1

634A733A01

175C484

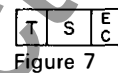
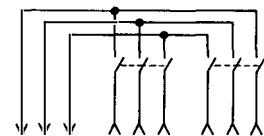


Figure 7



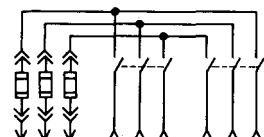
PM-1

634A730A01

175C484




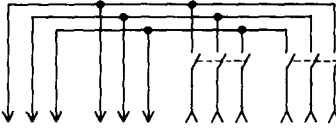
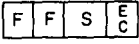
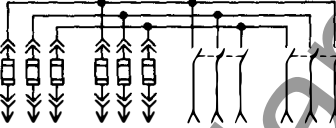

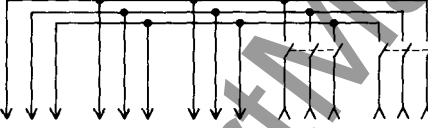

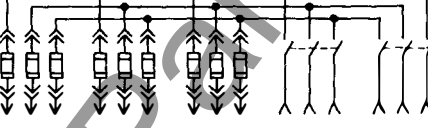
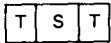
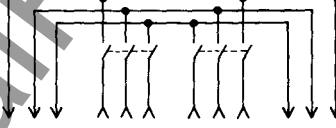
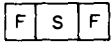
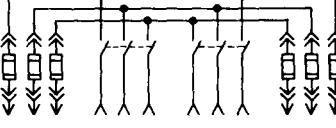
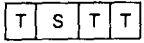
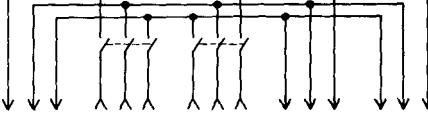
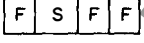
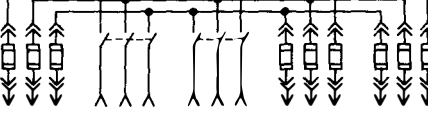

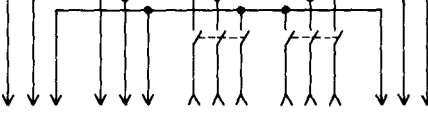
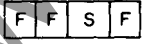
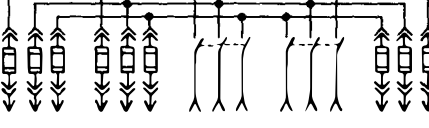
Figure 8



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T-Tap™ Three Phase Main Line Sectionalizing Switch Padmount or Submersible

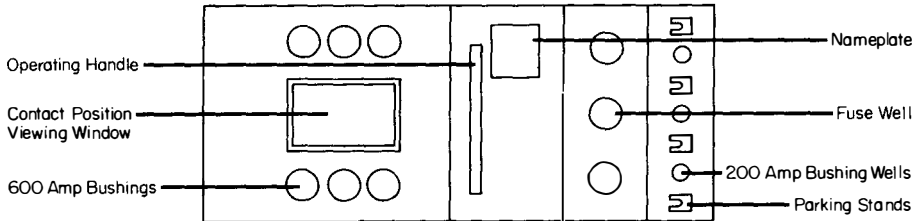
Type PM-1 Thru PM-10 and Type SS

Type	Style Number	Outline Drawing	Single Line Diagram
PM-2  Figure 9	634A734A01	175C485	
PM-2  Figure 10	634A731A01	175C485	
PM-3  Figure 11	634A735A01	175C486	
PM-3  Figure 12	634A732A01	175C486	
PM-2  Figure 13	634A707A01	175C487	
PM-2  Figure 14	634A704A01	175C487	
PM-3  Figure 15	634A741A01	175C488	
PM-3  Figure 16	634A740A01	175C488	
PM-3  Figure 17	634A739A01	175C489	
PM-3  Figure 18	634A738A01	175C489	

T-Tap™ Three Phase Main Line Sectionalizing Switch Padmount or Submersible

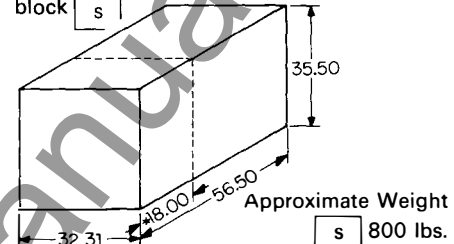
Type PM-1 Thru PM-10 and Type SS

Style Numbered Pre-Engineered Submersible Configurations



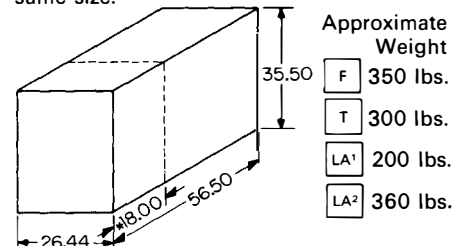
Weights and Dimensions For Pad Mounted and Submersible T-Tap™ Switches

Pad mounted switches The switch module is the basic building block **S**

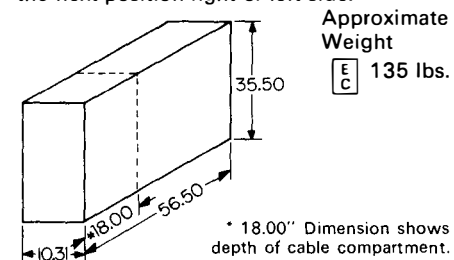


Type	Top View	Style Number	Outline Drawing	Single Line Diagram
SS-3T Figure 30		634A700A01	175C634	
SS-6T Figure 31		634A701A01	175C635	
SS-3F Figure 32		634A702A01	175C636	

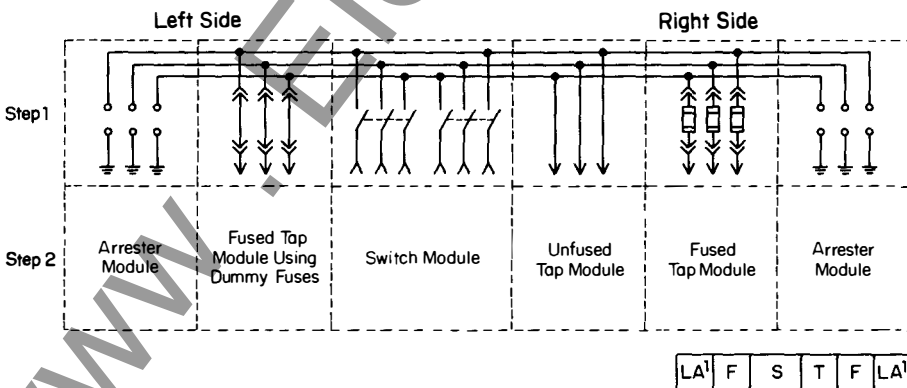
Tap module either fused **F** or unfused **T** or lightning arrester module **LA¹** or lightning arrester module **LA²** are all the same size.



End cover module **E_C** is required if the switch module does not have a tap module **F** or **T** or **LA¹** or **LA²** mounted in the next position right or left side.



Application Rules for Non-Preengineered Padmounted T-Tap Switches General:
 Due to the inherent design flexibility of the Westinghouse T-TAP switch a large number of combinations of the switch module and tap modules may be used in a specific application. To apply the T-TAP to applications where the pre-engineered design is not cataloged:
Step 1: Determine single line.
Step 2: Draw front view of T-TAP and determine line-up of switch module, end cover, fused or unfused tap module, lightning arrester module.
Step 3: Obtain price from PL 38-840.



Submersible T-Tap™ Switches

