

PST

Automatic Source Transfer Switchgear
The Ability In Reliability.



KYLE® PST PADMOUNT SOURCE TRANSFER

When trust in power transfer reaches the critical stage, transfer to PST from Kyle. Health, education, finance and manufacturing all depend on reliability and power quality as a way of life. They can all depend on PST for reliable source transfer. And so can you.



15, 25, 35kV

Fast Source Transfer

Improved System Reliability

Vacuum Interruption

Deadfront Construction



Critical customer loads, such as health, educational, financial, and manufacturing facilities, require optimum power quality and reliability. These loads are normally provided with a preferred and an alternate source of power. Source transfer packages are used to switch the load to the alternate source when the preferred source is lost, and to transfer back when voltage is restored.

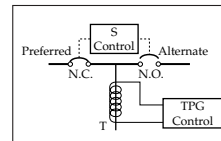
Cooper Power Systems PST (Padmount Source Transfer) packages are self-contained devices, which provide automatic source transfer in 6 cycles or less, and fault protection for 15, 25 and 35kV underground systems.

PST combines several time-proven Kyle® products: S control, which performs the automatic transfer based on loss of voltage detection; TPG control, which provides fault detection; and CI vacuum fault interrupters, which perform three-phase switching and fault interruption.

PST Packages

PST is available in two configurations: The PST Model 6 is the industry standard, and includes two CI mechanisms which are operated by an

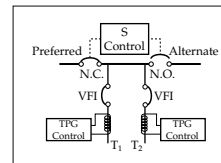
S control during loss of voltage conditions (transfer), and by a TPG control during fault conditions (tripping).



PST-6

Occasionally, two critical loads must be served, each independently, from the same source. The PST

Model 9 includes two CI mechanisms which are operated by an S control during loss of voltage conditions (transfer); and two three-phase VFI (vacuum



PST-9

fault interrupter) mechanisms operated by two TPG controls during fault conditions. This

arrangement provides independent transfer and fault protection operations of the PST.

PST Components

CI INTERRUPTERS

The CI interrupters feature Kyle's patented, long-life, maintenance-free vacuum interrupters, for many years of trouble-free performance.

When energized, a motor winds the CI interrupter mechanism to

charge the opening and closing springs; this provides quick-open and quick-close operation of the vacuum interrupters. This results in transfer times of 6 cycles or less. Each CI mechanism can also be operated manually, should control power be lost. A shotgun stick can be used to operate the trip/close levers, and the push-pull handles for manual charging of the springs. Viewing ports provide access to the contact position indicators and operation counters for each interrupter.



TPG CONTROL

Kyle's TPG control provides overcurrent detection, and issues trip signals to the CI mechanism or the VFI

mechanism depending on the PST configuration.

The TPG control is powered by the current sensing transformers in the PST; no external voltage supply or battery backup is required. TPG is not affected by system

voltage conditions such as overvoltage transients. A wide variety of time-current curves and settings are available for flexibility of coordination, and a SCADA accessory for remote control and monitoring. The TPG control can be programmed via the front panel, without the use of a computer.

S CONTROL

Kyle's S control is a time-proven, user-friendly control that provides the timing and control logic required to perform the automatic source transfer. Simple relay logic and analog timers assure reliable operation, ease of installation and quick troubleshooting. The front panel of the control provides visual indication of the status of each CI interrupter, control settings and manual operation capabilities. The S control can be programmed via the front panel, without the use of a computer.

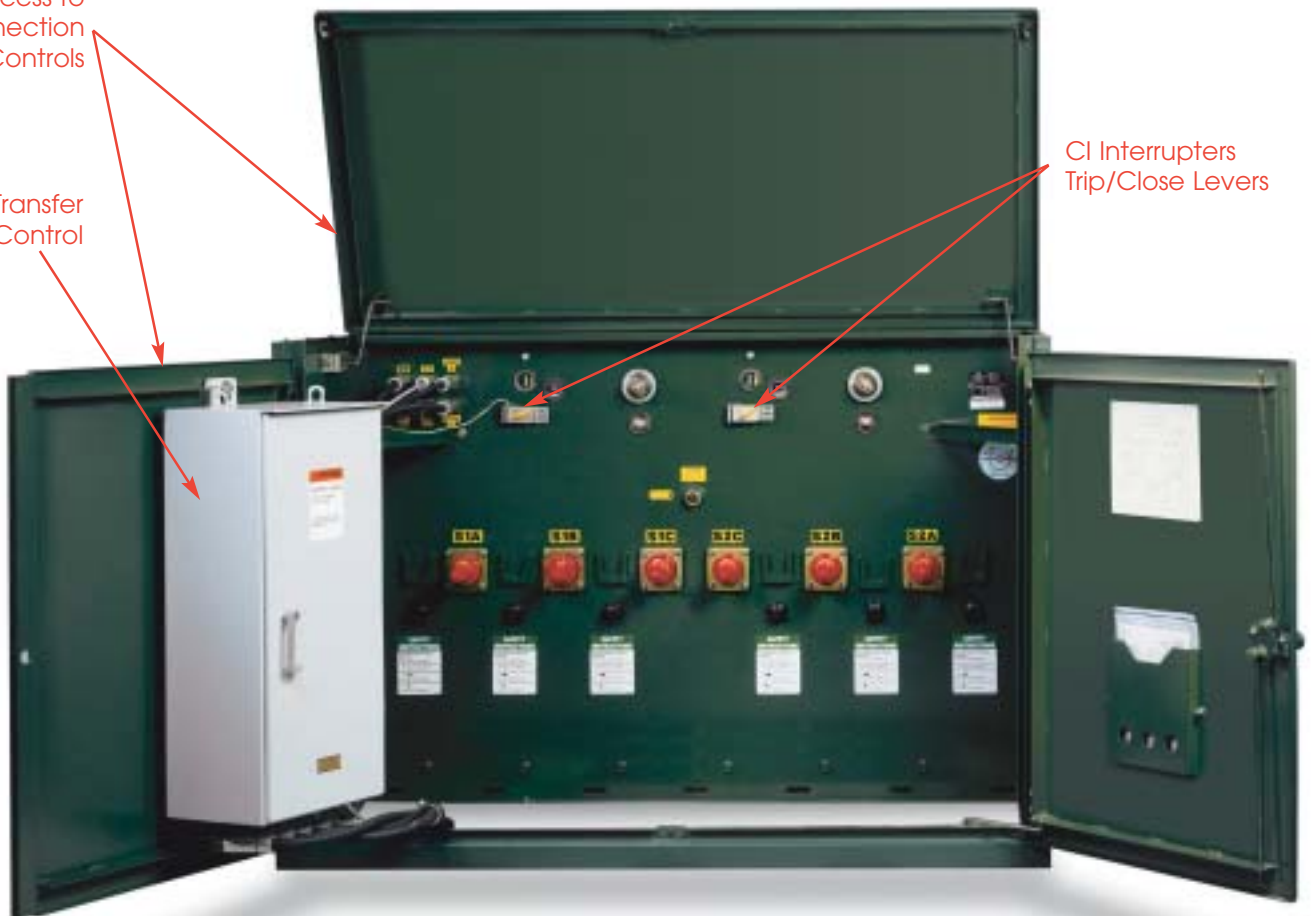


SOURCE-SIDE COMPARTMENT

Easy Access to Connection and Controls

Source Transfer S Control

CI Interrupters Trip/Close Levers



SOURCE I SOURCE II
(Either source can be the preferred.)

ANSI Standards

The Type PST padmount transfer package meets ANSI C37.72 for manually operated, deadfront padmount switchgear with load-interrupting switches, and ANSI C37.60 for automatic circuit reclosers and fault interrupters.

Additional Information

For additional information on PST padmount switchgear, refer to the following publications:

PST-6 Installation Manual	S285-60-3
PST-9 Installation Manual	S285-60-1
S Control Service Bulletin	S260-75-1

Ratings for PST Switchgear

Nominal Voltage	15kV	25kV	35kV
BIL, kV.	95	125	150
Interrupting Current (sym.), kA	12	12	12
Load Break and Continuous Current Rating (sym.), Amps . .	600/200	600/200	600/200
Momentary Current 10 Cycles (asym.), kA	20	20	25

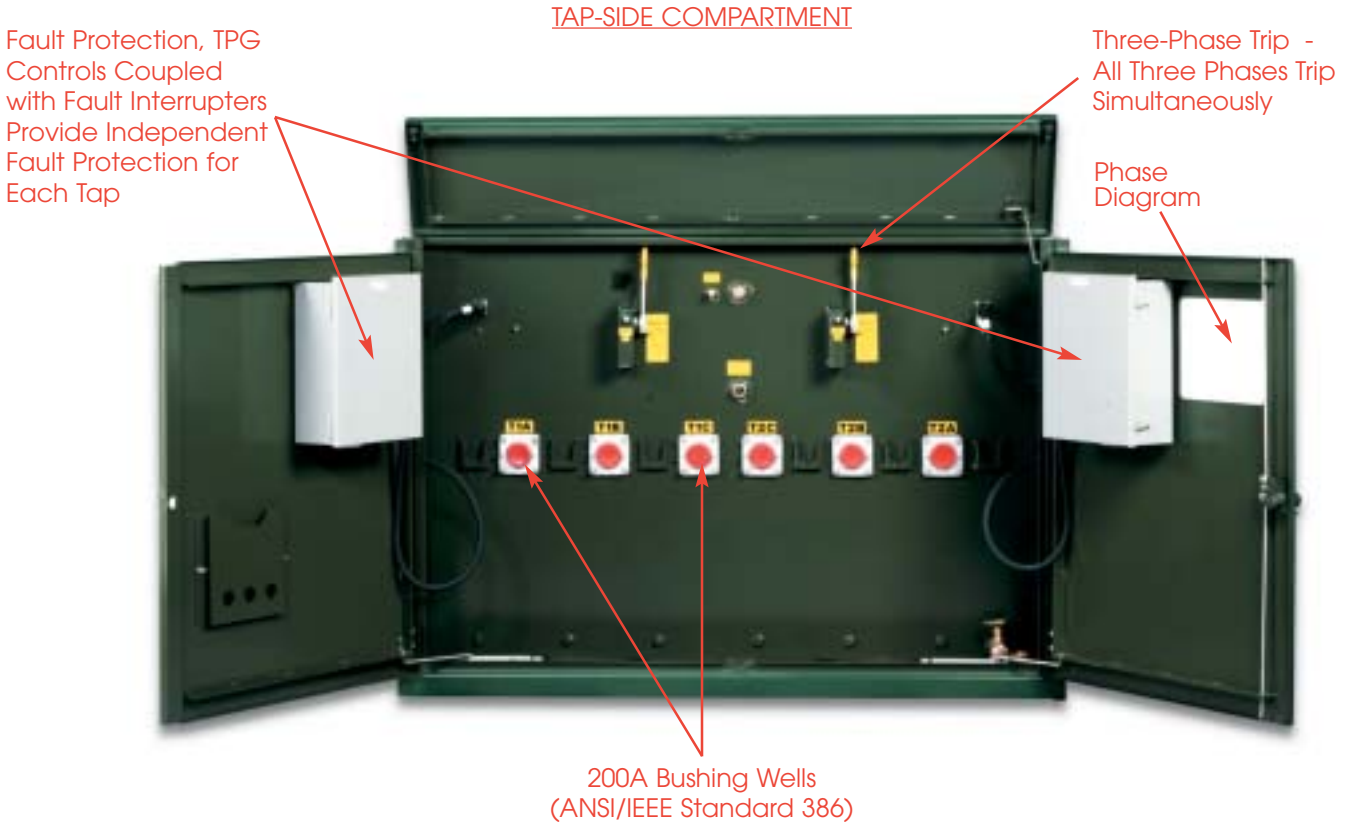
Basic Models/Bushing Guide

Model	Nominal Voltage (kV)	PST Catalog No.
6	15	KPST62
	25	KPST65
	35	KPST68
9	15	KPST92
	25	KPST95
	35	KPST98

Voltage Rating	Bushing Amperage Rating (Source/Tap)		
	600A/600A	600A/200A*	200A/200A*
15	1	2	3
25	4	5	6
35	7	8	9

* PSTs ordered with 15 or 25kV rating are equipped with wells only on the 200 Amp side.

For different amperage ratings, replace the last digit of the catalog number with the approximate digit from the Amperage Rating Table.



COOPER Power Systems

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