

SINGLE-PHASE PRS

(PROGRAMMABLE RESETTABLE SECTIONALIZER)

Optimize Your Distribution System Coordination Reduce Your Operating Costs

Improving customer service was never this easy, this economical, nor this effective. The Programmable Resettable Sectionalizer (PRS) provides an economical means to increase system reliability by providing flexibility in sectionalizing overhead distribution lines. The unit is fully programmable to ensure optimal coordination with system assets.

The Type PRS device has built-in intelligence to discriminate between temporary (transient) and permanent faults on distribution systems. It operates in conjunction with a back-up automatic circuit recloser or a reclosing circuit breaker. It is specifically designed for the protection of single-phase lateral lines. When installed at the beginning of a lateral, it virtually eliminates nuisance outages. Its functional concept and design greatly improve system coordination.



PRS Benefits

- Improves system reliability
- Distinguishes between permanent and transient faults to reduce outages
- Programmable parameters: Counts, actuating current, reset time
- One programmable unit to meet all needs per specific voltage class
- Historical data storage for system overview and analysis
- Porcelain and Polymer Cutout Options
- Resettable / Reusable

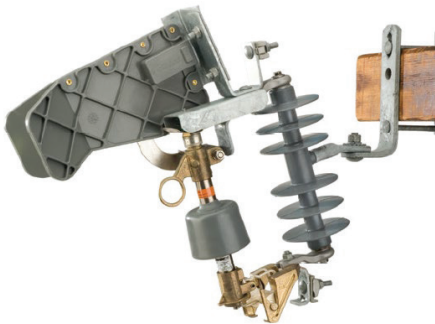
PRS Best Suited For:

- Locations where fuse coordination is difficult to achieve
- Areas with insufficient load to justify investments in apparatus such as reclosers
- Remote locations prone to transient faults caused by fauna and/or flora
- SAIDI improvements



“IN AIR” Resettable Sectionalizer

- All PRS units are equipped with an ‘In-Air’ Resettable Trunnion
- Allows for reset of the sectionalizer while in the cutout mounting base
- Does not require resetting with a wrench



Load Break Operation

- Option to order the PRS with Arc Chute Type Interrupter
- Ability to open the sectionalizer under rated load



PRS Technical Specifications

Rated Power Frequency	60 Hz / 50 Hz
Rated Voltage (BIL)	15kV (110kV BIL) 27kV (125kV BIL) 38kV (150kV / 170kV BIL)
Rated Continuous Current	300 Amps
Minimum Line Current	5 Amps
Minimum Actuating Current	Programmable between 10A and 480A
Number of Counts	Programmable for 1, 2, 3, or 4
Reset Time	Programmable, 30 sec. to 300 sec. with resolution of 1 second
Inrush Detection Time	Less than 1 cycle
Type of Inrush Current Detected	Symmetrical and Asymmetrical
Method of Inrush Current Detection	Fourier Analysis (FFT)
Deadline Threshold	≤ 200mA
Deadline Detection Time	100ms (± 20ms)
Total Operation Time (including deadline detection)	400ms
Short Time Current Withstand, 15 cycle (at 60Hz):	8600 Amps Sym.
1 second:	4000 Amps Sym.
3 seconds:	3200 Amps Sym.
Momentary Current Rating	12,000 Amps Asymmetrical
Current Measurement Accuracy	± 5%
Temperature Range	-40°C to +60°C
Maximum Thermal Rating	300A continuous current
Surge Current Withstand	65kA per ANSI C37.63
Electromagnetic Interference	Per ANSI C37.90.2
USB port	Rated IP68

Simplified Programming

Simply connect the USB cable provided to the USB port on the bottom of the unit and then into a computer with the provided Hubbell Sectionalizer User Interface. Provide the inputs for the upstream device and the software will provide suggested settings.

