



Type 82 DC Reclosing

The **SWARTZ Type 82 DC Reclosing Relay** is part of a solid state reclosing system that prevents the closing of a DC breaker on faulted line. After a fault or overcurrent trip occurs, the relay provides load side fault verification before the breaker can close and will automatically reclose the breaker on a clear line. The Type 82 Relay is designed to be used on light and heavy rail systems.



FEATURES

- ▶ Draw-out construction
- ▶ LED Meter - Accurate, easy to read
- ▶ “Load Measure” memory
- ▶ Bi-Directional Load Measuring
- ▶ Voltage Compensating
- ▶ Internal Power Supply operates on and autocompensates for a range of DC inputs
- ▶ Fault Annunciation
- ▶ Built in Calibration
- ▶ Modular Construction

DESCRIPTION

The reclosing system consists of two units: the SWARTZ DC Reclosing Relay and a SWARTZ solid state transducer. The transducer is a self powered unit that sends converted, properly scaled bus voltages to the relay. The relay can be remotely mounted from the transducer to eliminate exposure to traction voltage. The relay responds to the input and performs the functions of voltage measurements, load measurements, sequencing and indication. The relay measures voltage on the load side of the breaker and picks up if the voltage is above its pre-set values to close the breaker on a clear line. The relay will maintain pre-existing line voltage measurements and measure the differential voltage when load measuring is applied. If the differential voltage is above the pre-set value, it will close the breaker. The set value for the relay is the voltage produced by the load measuring current at the minimum feeder resistance. Adjustments include time for each step of the sequence, number of attempts and levels for voltage and dead load pick-up.

SPECIFICATION

Input Power	Operates on 24-125 VDC or 120 VAC
Supply Current	40 mA at 125 VDC 200 mA at 24 VDC
Ambient Temperature	-20 C to +55 C
Design Test	SWS ANSI/IEEE C37 90
Thresholds	High and Low Voltage Load ohms
Current Loop	0-1 mA/2.49K ohm
Load Measuring Resistor	15 to 100 ohm
Close Attempts	1 to 5
Pump Attempts	1 to 5
Cycles Per Close	1 to 3
Outputs	Fault. Load Measuring. Close. Lockout (2A/500 VDC. 100 VA max)
Meters	0 to 800 V. 0-10 ohms

