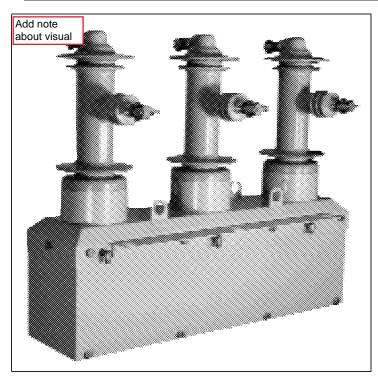
Kyle Type VCS-3 Vacuum Switch



- Oil Free
- Maintenance Free
- Environmentally Safe
- Solid Polymer encapsulated Vacuum Interrupters
- Three-Phase, 27 kV, 400A
- *Electircal or Manual (Open)
- Electrical (Close)
- ANSI C37.66-1969 Rated

VCS-3 Description

The Kyle Type VCS Switch is a three-phase vacum switch with an electrically-controlled low voltage operating mechanism. The mechanism provides for either manual or electrical tripping and electrical closing to ensure close and latch capability.

The VCS-3 vacuum switch is both oil-free and maintenance ree.

The solid polymer insulation system does not rely on gaseous or liquid dielectrics. It is highly resistent to ozone, oxygen, moisture, contamination, and ultraviolet light. This results in an environmentally-safe switch for general porpose distribution automation and capacitor switching applications

The VCS-3 vacuum switch is operable in any mounting orientation vertical, horizontal, or inverted) and is su Add degree sign tion within a temperature range of -4000 to +4000.

VCS-3 Operation

The Kyle Type VCS-3 switch is a three-hase electrically or manually operated vacuum switch for both inductive current and capacitive current switching to meet the requirements of a wide range of applications. This switch is operated by a magnetic actuator that requires an auxil-

iary low-voltage power source for operation. Electrical operation provides converent circuit switching by remote control, on command, or automatically through the use of current, voltage, or time-sensitive devices.

Capacitor Bank Switching other headings.

Change typeface to match other headings.

The Kyle Type VCS-3 switch is ratted for capacitor bank switching application for distribution systems rated up to 24.9 kV. With a capacitive current switching rating of 400 amps and momentary and latching ratings of 16,000 asymmetrical amps, the Type VCS-3 can switch singlebank capacitors rated up to 18,000 KVAR. The switch also has an inductive continuous and load breaking rating of 400 amps with a two hour overload rating of 600 amps. The VCS-3 switch challes be manually operated by a single downward pull of the manual operating handle located under the sleet hood.

Load Transfer Schemes

With the addition of a factory-installed accessory, the VCS-3 switch can be used in load transfer schemes with a load transfer control.



Cooper Power Systems

Distribution Automation switch

For automated distribution system switching or wherever remotely-commanded or manually initiated current switching is required, the Kyle Type VCS-3 loadbrake switch can provide reliable switching functions at a minimum cost on distribution systems rated through 27 kV. Vacuum interdrotion and a solid polymer insulation system are employed for long contact life and virtually no maintenance

The Type VCS-3 switch is designed to interface with the Cooper Power System's Fault Targeting Switch Control or other manufacturers' SCADA switch controls. When equipped with the available CT accessory and an electronic control the switch can be operated and interrogated through a SCADA system for fault detection, isolation, and current reconfiguration.

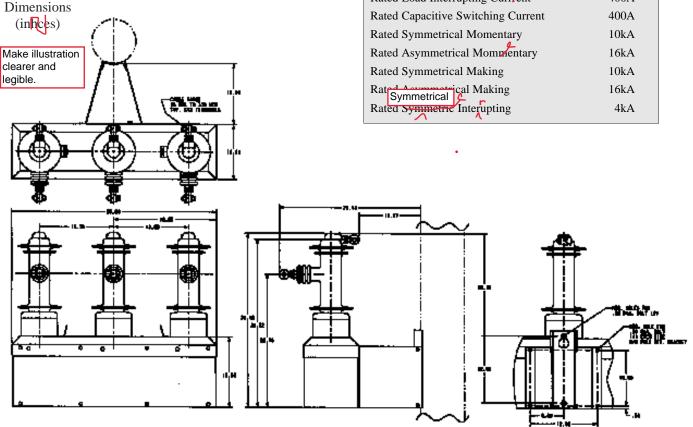
Ratings an Specifications

Table 1. Voltage ratings (kV).

	15.0 kV	27.0 kV
Nominal Voltge	14.4 kV	24.9 kV
Maximum Voltage	15.0 kV	27.0 kV
Rated Basic Impulse Voltage	95.0 kV	125.0 kV
Radio Noisee Limit @ 16.4 kV	100.0 μV	
Radio Noise Limit @ 23.0 kV 60 Hz Withstand:		100.0 μV
Dry, 1 minute	35.0 kV	46.0 kV
Wet, 10 seconds	30.0 kV	40.0 kV

Table 2. Current Ratings (Amperes).

Rated Continuous Current	400A
4 Hour Overload	500A
2 Hour overload	600A
Rated Load Interrupting Current	400A
Rated Capacitive Switching Current	400A
Rated Symmetrical Momentary	10kA
Rated Asymmetrical Mommentary	16kA
Rated Symmetrical Making	10kA
Rated Asymmetrical Making	16kA
Rated Symmetric Interupting	4kA





Cooper Power Systems

Quality from Cooper Industries

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