

Sign Up Form For Sycom Surge and
MotorSaver™ Voltage Protection

NAME

PHONE

Well Account Number(s) where
MotorSaver™ is desired:

Well Account Number(s) where
Sycom Surge is desired:

Total cost will be billed prior to installation.

Detach Form and Mail to:

Southern Power District
c/o Irrigation Dept.
P.O. Box 1687
Grand Island, Nebraska 68802-1687

*Contact your local
Southern service center
for more information on
Low/High voltage
protection.*

Grand Island 308-384-2202

Central City 308-946-2964

Franklin 308-425-6217

Hastings 402-751-2535

Holdrege 308-995-5112

*Toll free 800-579-3019
(Voice Mail Service 24-hours a day)*

Low/High Voltage Motor Protection

*Available now for
irrigation motors!*

Southern Power District



Protect Your Three Phase Electric Irrigation Motor From Unpreventable Single-Phasing Conditions

Why Consider Phase Loss Prevention For Your Three Phase Motors?

The electric industry recognizes that “heater strip” protective devices may not operate fast enough to provide the protection needed to insure against loss of three phase motors during a single-phasing event. If you are relying on heater strip protection only, talk to your electrician for his recommendations.

Southern Power occasionally receives claims for losses of three phase motors when one of the three phases is lost on our distribution system due to circumstances beyond its control. These circumstances include an accident or equipment failure involving electric facilities, a tree branch or animals in the lines that cause protective fusing to operate and various weather related causes.

How Does Phase Loss Damage A Three Phase Motor?

With the loss of one phase of power, the remaining two phases may continue to attempt to provide for the power requirements of the motor. With an approximate 40% increase in current on the remaining phases, the motor windings start to heat up causing damage to the wiring's insulation inside the motor.

What Can You Do To Provide Phase Loss Protection?

Southern Power is facilitating the installation of voltage monitors on our customers' three phase irrigation motors to provide a means to protect against single phasing conditions that can lead to expensive motor failures.

We have initiated a program to sell and install the MotorSaver™ brand of voltage protection in time for the next irrigation season. Southern's price of \$350 will cover the “standard” installation of the protective device by a licensed electrician. Any “non-standard” installation will require a revised cost estimate to reflect any increase in installation costs.

Will This Protect Against Lightning Or Other High Voltage Surges?

NO. Over voltage, or surges (commonly created by lightning) require a completely different protective system. Surge protection has been offered to Southern customers for residential installations only in the past. Now you can afford the same high level of protection, with insurance, on your agricultural motors (especially irrigation systems).

What Is The Cost Of Surge Protection For My Irrigation System?

The cost varies according to the number of surge devices required. A standard gravity irrigation system using 2 protectors (one at the meter and one at the pump panel) would be about \$450.00 installed by a private electrician. A standard pivot system probably requires an additional device to protect the pivot control panel and the cost would be closer to \$575.00.

Do I Need BOTH Low-Voltage AND High Voltage Protection?

That is your choice and it depends on your experiences with these voltage problems in your area. Some locations are more lightning prone than others and surge is a logical consideration. Low voltage, on the other hand, can't be predicted as it is a result of abnormal conditions that could occur at any time or location in the electric distribution system.

Is There A Discount For Obtaining Both Kinds Of Protection At The Same Time?

There may be a cost advantage for the installation if both protective systems were installed at the same time, however, our experience is not great enough to advertise any definite price reductions for doing so. If there is a significant difference in the installation cost an adjustment will be considered.