



ZEBRA PROTECTORS

by Zebra Instruments™

Plug in, Transient, Surge, Lightning, & Spike

PROTECTION

For ECM Motors, Circuit Boards, & Condensing Units

Protect the systems **you** install and service.



Saves Equipment

The most common cause of Variable Speed (ECM) motor failure is damage to the electronics module as a result of poorly conditioned incoming power.



Fast Installation

Zebra ECM Protectors simply plug-in between the motor connector and the existing wiring harness. A ground strap with a ring terminal is provided for additional protection.



Protects Investment

Zebra Protectors help to prevent valuable equipment from costly damage due to voltage spikes, surges, and transients.



“... easy to install. Great items to protect ECM Motors!”



-Customer Review



Best Seller!



Part #: VZPRO

- Standard 5-pin Connection
- 120v or 240v Motors



Best Seller!



Part #: X13PR

- X13 & Evergreen AH (NOT IM)
- 120v or 240v Motors



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Zebra Instruments



Distributed By:



Sold Only Through Distributors

Comprehensive HVAC Protection

Zebra Instruments 

Identify Motor/Power Configuration

Compatibility is based on common motor connector plugs or terminals and power.

Install Motor Protector

Simply plug-in or connect Zebra Motor protector between power harness and motor.

Install Circuit/Heat Pump/24V Protectors

For comprehensive surge protection, simply install a ZAP-PRO and/or PRO-24.

Motor Protectors

Motor Protectors are installed directly between the motor's existing power harness, and the motor itself. Allowing the small protection devices to prevent any incoming power from damaging the electronic modules. inside the motors.



AZURE Motor Protector
Monitored Transient, Surge, Lightning, & Spike Protection for the AZURE ECM Motor
The most common cause of AZURE ECM motor failure is damage to the electronic module as a result of poorly conditioned power.

AZPRO
Plug-In Monitoring plus Transient Surge, Spike, & Lightning Protection for ECM Motors
LED: $\text{ON} = \text{OK}$ $\text{OFF} = \text{REVERSE POLARITY}$

Model #: AZPRO



ECM Motor Protector
Monitored Transient, Surge, Lightning, & Spike Protection for ECM Motors
The most common cause of ECM motor failure is damage to the electronic module as a result of poorly conditioned power.

VZPRO
Plug-In Monitoring plus Transient Surge, Spike, & Lightning Protection for ECM Motors
LED: $\text{ON} = \text{OK}$ $\text{OFF} = \text{REVERSE POLARITY}$

Model #: VZPRO



X-13 & X-Motor Protector
Monitored Transient, Surge, Lightning, & Spike Protection for X-13 & "X" Motors
The most common cause of X-13 ECM motor failure is damage to the electronic module as a result of poorly conditioned power.

X13PR
Plug-In Monitoring plus Transient Surge, Spike, & Lightning Protection for X-13 Motors
LED: $\text{ON} = \text{OK}$ $\text{OFF} = \text{REVERSE POLARITY}$

Model #: X13PR



Ensire Motor Protector
Monitored Transient, Surge, Lightning, & Spike Protection for the Ensire Motor
The most common cause of Ensire motor failure is damage to the electronic module as a result of poorly conditioned power.

ENPRO
Plug-In Monitoring plus Transient Surge, Spike, & Lightning Protection for ECM Motors
LED: $\text{ON} = \text{OK}$ $\text{OFF} = \text{REVERSE POLARITY}$

Model #: ENPRO

Circuit/Condensing/Heat Pump/24V Protector

For the most comprehensive protection, a system should include both a motor protector and at least one of the following.



ZAP-PRO
Monitored Transient, Surge, Lightning, & Spike Protection for Circuit Boards & Units
The most common cause of electronic circuit board failure is damage to the electronics module as a result of poorly conditioned power.

Circuit Board / Condensing Unit/ Heat Pump Protector
Can be installed on a heat pump unit, condensing unit, or on a circuit board.

Model #: ZAP-PRO



PRO-24
Monitored Transient, Surge, Lightning, & Spike Protection for 24V Controlled Systems
The most common cause of HVAC circuit board failure is damage to the electronic module as a result of poorly conditioned power.

24V System Protector
Best installed at step-down transformers output leads.

Model #: PRO-24

How They Work!

Zebra Instruments motor protectors are designed to protect 120 and 240 VAC. The motor protectors react when voltage exceeds 135 VAC per leg with respect to ground. They convert the excess voltage into heat causing the MOV's to breakdown and their poles short together permanently. This reaction will cause a discoloration in the packaging. Replace the Zebra Protector - it has done its job of protecting the motor!



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