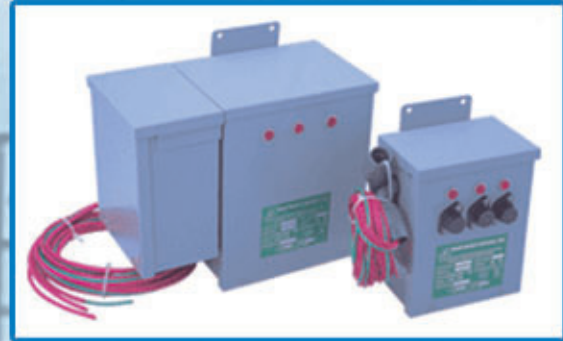


KVAR

KEC (KVAR Energy Controller)

Key Solution Benefits:

- 25% or more realized in monthly energy savings*
- Reduces energy demand
- Increases the life of electrical motors and appliances through heat reduction
- Reduces carbon imprint



WHY KEC:

Today's industrial applications require looking beyond the traditional means of energy conservation and savings. The KEC can save on energy costs, eliminate energy waste, increase the life of your appliances, and provide surge protection for your facility. Currently there are ninety-three different combinations of equipment derived from our patented sizing apparatus and methods.

HOW PATENTED KEC WORKS:

When a motor starts, it asks the utilities transformer for power (voltage and amperage) to run. This demand for power runs through the wiring, panel box, meter and down the lines to the transformer and heats up and strains the motor and wiring. This heat (I²R losses) is called watts. The KEC, once installed, stores and releases energy to the motor it needs to function properly. This reduces heat on the wires and the motor. Reducing this heat, will lower your electric bill, increase the life of the motor and reduce the chances of fire. As a result of providing reactive power (KEC) locally, motors run cooler and more efficient. This equates to "\$\$\$" savings and longer equipment life.

The KEC increases power factor, by reducing the amount of reactive power (KEC) that the load draws from the utility company. KEC's store the reactive power (KEC) needed for the creation of the EMF within the inductive load. As the motor operates, this reactive power is "pulled" and "pushed"

to and from the KEC by the motor. The amount of reactive power purchased from the utility company by power factor optimization has been greatly reduced, or eliminated. The technology applied by the KEC reclaims, stores and supplies power to inductive motors and loads. This process provides the reactive power (KEC) required to establish the electromagnetic field (EMF) around the inductive windings of a motor, while reclaiming and recycling the power during the normal working phase. The power reclaimed and recycled by the KEC would normally be pushed back through the power distribution lines.

As a result of providing reactive power (KEC) locally, motors run cooler and more efficient. This equates to "\$\$\$" savings and longer equipment life.

FREE KEC CONSULTATION:

See for yourself how the KEC reclaims and recycles electricity in a live demonstration at your facility by contacting a WAE representative.



For more information regarding KEC or to schedule a live demonstration:

Call: (603) 474-7477 or email: pballaro@waterlineind.com

**Savings on energy will vary by location, amount of inductive equipment, line losses, and how your electric company bills you.*

KEC SPECIFICATIONS

120 - 600 Volt AC application

Withstands surges to 480 VAC

Self-healing metallized capacitors

Low losses, 0.5 watt per KEC

UL Recognized Pressure Sensitive Interrupter

Interrupter for maximum 10,000 amp fault currents

Discharge system to reduce voltage to 50 volts or less within 1 minute of de-energization

Case rupture protection: Internal pressure sensitive devices incorporated to activate at end of life or misapplication.

Operating temperature range of -40° C to +90° C

Flashpoint: + 182 degree C to + 200 degree C

UL Listed and CSA Approved

Values +/- 2% of rating

Hermetically sealed aluminum case with turn plate steel cover

Phenolic insulating bushings

Box size 6" x 6" x 4" up to 12" x 12" x 12"

Operating Life: 60,000 hours with 95% survival

General Enclosure: NEMA 3R Indoor/Outdoor

Wire Rating: 600 Volts, THHN or MTW or THWN or AWM, Gasoline & Oil Resistant 11

Waste Disposal: Dispose of in accordance with all local, federal, and foreign regulations, component liquid is bio safe.

Utilizes Self-Healing Low Loss Capacitors

20 Year Design Life

Surge Suppression - 2000 Joules

Typical Protection For : Electrical Storms, Lightning Activity and Power Utility Spikes

Let Through Voltage

150V line-to-neutral

Load Rating - 20A

Six-Way Electrical Protection

EMI / RFI Noise Reduction 0-40dB

KVAR MISSION:



The global vision of KVAR Energy Controller (KEC) is to reduce energy costs, reverse the wasteful consumption of our natural resources and reduce green house gases, thus restoring the pristine nature of our environment through the marketing and business development of the KEC worldwide.



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