MAXEFF ELECTRIC MOTORS

A NEW GENERATION OF ELECTRIC MOTORS
DO NOT WASTE ENERGY

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300 HP MAXEFF MOTOR, CONTROL AND SOFT START

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What are Maxeff motors, what can Maxeff do to help save Energy cost?

MAXEFF motor features an induction motor circuit just like any other electric motor. Additionally, however, Maxeff also includes a new induction built-in generator circuit all in one. The two circuits share the same magnetic field, rotor and stator. This allows Maxeff motors to produce substantially greater shaft power than like-rated induction electric motors. Unlike all other induction motors, Maxeff has no reactive component; therefore does not pollute the grid and requires substantially fewer Amps to do same work. Better yet, Maxeff will correct your plant power factor for free as a result. Its integrated generator circuit is constantly using the motor available magnetic material to produce negative V.A.R. This production is reverse proportional with the actual motor shaft load, thus heavier shaft loads allows smaller production, and lighter shaft loads yield bigger production. This co- generated V.A (Volts/Amps) always leads the grid power in phase angle. The Maxeff induction generator circuit constantly produces a current that leads the line voltage like an alternative power source. Maxeff motors eliminate virtually all wasted energy of standard induction motors.

Maxeff has introduced a unique built-in electrical and mechanical soft start, without the use of external and additional electronic components. This is accomplished only via electromechanical contactors and a sequence of internal automated connections. This allows the Maxeff motor to receive the grid power at only 1/3 of its nominal HP rolling automatically to 2/3 and then to full HP. This unique feature will simply reduce the inrush current as low as only 1.5 times the motor nominal full load current versus 7 times for standard motors. Allowing Maxeff motors to ramp up in speed smoothly and progressively. This novel soft start sequence allows the Maxeff motor to be started from generators half size compared to standards. Example: Where a standard motor would require a 200 KVA to start, a comparable Maxeff will start on a 100 KVA generator. No more squeaky belts, prematurely destroyed couplings and pump seals, no longer forced to leave your motor running because of its limit of 3 starts per hour. All Maxeff motors can start, stop and restart as many times as you need in an unlimited fashion without any risk of motor overheat. No more idle run, just turn your Maxeff motor off if you don't need it.

Energy cost with standard motors affects in the way of:

1- KW/h; Active power consumption.
2- KVA; Excessive Apparent power consumption.
3- KW Demands; Excessive power demands.
4- Peak demands: Excessive motor inrush current.
5- KVAR: Poor Power Factor, Excessive reactive power.
6- Poor ability of standard motors to stop and restart when needed.

Maxeff has the solutions:

1- KW/h; Less Active power by 6% to 12% and higher EFF.
2- KVA; Less Apparent power (Less Amps) by 15% to 80% depending on the load levels.
3- KW Demands; Less demands by 15% to 80% depending on the load levels.
4- Peak Demands; Less peaks and inrush current with Maxeff soft start by 3 to 4 times.
5- KVAR: Maxeff features PF 0.999, Maxeff eliminates the reactive power.
6- Poor ability to restart multiple times; Maxeff eliminates this, stop your motor when it is not carrying a load, Maxeff allows infinite number of restarts per hour.