POWERON
MOTOR POWER SAVER





ENERGY SAVING SOLUTIONS...

POWERON
MOTOR POWER SAVER

helps you to save on your Electricity bill upto 30% with a pay back less than 3 months



- Some of your motors starts on full loads, but runs lightly only.
- Why should you give rated 415 Volts to your partly loaded motor?
- You can still run your motor at 280 Volts using star mode
- You have a provision in your star delta starter, to put to use.
- This gadget automatically fits in to run at star or delta mode
- This is also ensures motor safe running & savings in KVA & KW up to 30%

pop

POWERON PROJECTS

Coimbatore - 641 033. Mob: +91 98941 20809

poweronprojects@gmail.com | www.poweronprojects.in

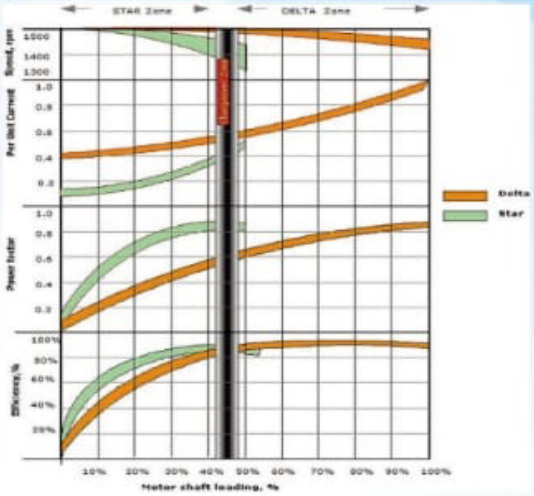
HOW THE SAVINGS ARE ACHEIVED

Voltage across winding reduces to 58% of rated voltage and line current reduces to 1/3rd. Thus reduction in iron and copper losses, hence less Power Consumption. Reduced Power Bills. Improvement in Power Factor and Efficiency. Energy saving from 5% to 35% possible depending on percentage of loading of motor (No Load to 50% loading at 50% load minimum saving and at no load maximum saving). Decrease in line current which gives additional savings in cable losses and losses in switchgears. No need of changing motor to lower KW rating.

APPLICATION & SAVINGS IN TEXTILES AND OTHER INDUSTRIES

MACHINE	TC 03 CARD	LC 300 V3 CARD	DK 780 CARD	EXHAUST FAN	LG 5/1 RING FRAME	FRESH AIR FAN (AHU)	ETP	AIR COMPRESSOR
MOTOR	CYLINDER MOTOR	CYLINDER MOTOR	CYLINDER MOTOR	FAN	MAIN MOTOR	FAN	AIR BLOWER	MAIN MOTOR
MOTOR KW	7.5	5.5	7.5	15	40	11	11	45
SAVING UNITS/DAY	15	15	15	56	32	11	16	58
SAVING IN %	18%	14.7%	18%	39%	10%	15%	5%	13%
SAVING COST / ANNUM	Rs.50,300/-	Rs.37,250/-	Rs.50,300/-	Rs.1,05,000/-	Rs.1,03,000/-	Rs.24,000/-	Rs.50,000/-	Rs.1,44,000/-

BEE GUIDELINES ON ENERGY SAVING IN UNDER - LOADED STAR-DELTA CONNECTED MOTORS



- "in Delta - Connection" the line voltage is impressed on each motor phase winding. whereas in 'Star Connection" line voltage divided by $\sqrt{3}$ is impressed on each phase winding.
- The vertical dark band (40 to 50% loads) is the Changeover" region, Which Differentiates possible Delta operating zone (right hand Side) and star operating zone (left hand side).

Fig: Shows the efficiency, power factor, speed and Current vs.Motor Shaft load characteristics in both Delta and Star connections of the Motor.

Observing the efficiency curves, it is clear that at light loads (40% or less) : operation of motor in Star connection can Save Energy, as motor efficiency is significantly better.

Salient Features of "POWERON Motor Power Saver"

- Using the latest Advanced Micro controller based Technology, inherently more reliable and accurate
- Programmable C.T range of 30A - 100A/20mA
- Smooth and reliable change over from Star to / Delta, when load goes above set current in Star - with suitable time
- "ADD-ON" unit with exiting Star Delta Starter
- Constructed by Machinery soldering to avoid manual error
- Direct digital display of current drawn by load in phase wise
- Protected by PASSWORD to enter to setting parameters
- Program setting by 3 soft membrane keys on the front panel
- Star, Delta & Cumulative run hours Separate displayed
- Built-in OLR with tripping current & time after start up
- Starting with time based and running on current based technology
- Auxiliary power input voltage range 190V to 260V AC
- Product covered by ventilated ABS enclosure
- Detachable terminal connecters with different sizes, to avoid wrong connections
- Easily mountable size of CT's for better accuracy
- Single model for two CT ratings (30A & 100A)
- Add on features - DIN mountable (Optional)

POWERON PROJECTS

Energy Audit Firm & Energy Saving Solution Provider in Coimbatore .

Our Services

- BEE certified & Accredited Energy Audit Firm & Energy Saving Solution Provider to the Industry.
- Run by Engineering Professionals with 5 Decades of experience.
- More than 60 industries including major groups Benefited by the solutions based on Energy Audit.
- Priority is towards Zero cost and Low cost Energy Saving solutions to the company through our Audits.
- You invest on our Energy Saving Proposals & Get your Return on Investment in FEW MONTHS only.
- When repute clients in Textile, Foundry and Engineering have been benefited with Low cost Proposals.

WHY NOT YOU TOO?

Our Products

POWERON MOTOR POWER SAVER:

Are you willing to save power from your under loaded motor like :

- In Textile Industries
- Carding
- Ring frames
- Waste collection fans and Humidification fans
- In Other Industries – All under loaded motors



Please call us TODAY for FREE Trial study in your machines with less payback period of less than 4 months.

Visit our website : www.poweronprojects.in/motor-energy-saver.htm

Please CALL us TODAY for Free Discussions only! Regarding Energy Audit and CALL us for

FREE Trial in your machines

We are pleased to visit your premises for Solutions.

"SPEND LESS AND SAVE MORE WITH US"?

94437 20220,
98941 20809

info@poweronprojects.in
poweronprojects@gmail.com

www:poweronprojects.in
www:energymeasuretosave.com