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Estd. Since 1974.



M/S Union Engineering Co.

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INTRODUCTION

In today's power scenario, we are facing a major power crunch. Day by Day the gap between demand & supply of electrical energy is widening at the rate of 3%. Bridging this gap from supply side is very difficult & expensive proposition. The only viable way in handling these crises, in addition to capacity addition, is the efficient use of available energy, which is possible by use of energy efficient devices.

Electric motors are industry's need. Electric motors consume around 70% of the total electricity used in the industrial sector. As motors are the largest users of electrical energy, even small efficiency improvements can produce very large savings across the country. Energy conservation measure taken by individual consumers in this direction can improve the national economy & benefit the environment on global scale.

An energy efficient motor produces the same shaft output power but draws less input power than standard motor. Hence EE motors consume less electricity than comparable standard motor.

FEATURES :

Standards :- IS:12615, IS: 1231 & IS: 2223

Mounting : Foot (B3), Flange (B5), face (B14) & combinations

Voltage :- 415 V +/- 10% or as required

Frequency :- 50 Hz +/- 5% or as required

Ambient :- 45 C

Altitude :- up to 100 m above m.s.l.

Enclosure :- Totally enclosed fan cooled (TEFC)

Protection :- IP 55

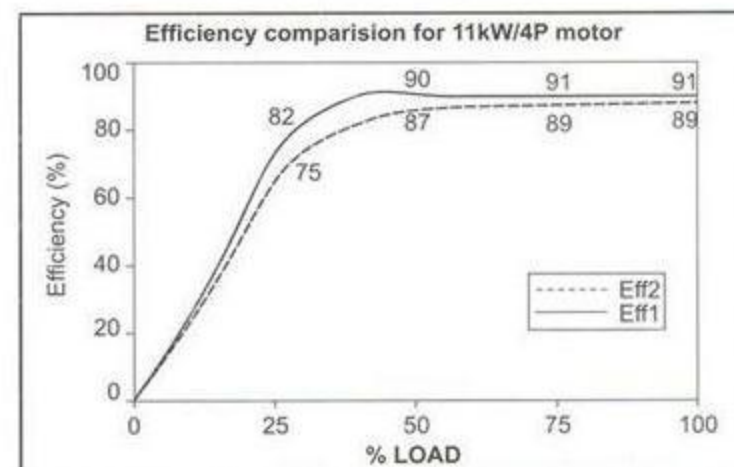
Insulation Class :- Class F insulation with temp. rise limited to class B.

ADVANTAGES :

- Saves energy and money
- Near uniform efficiency from 50% to 100% of full load ensuring energy savings weven at part load conditions also.
- Short payback period
- Substantial savings after payback period

RANGE :

"Hindustan" energy efficient motors are designed as per the values specified in IS: 12615. They have near uniform efficiencies between 50% to 100% of load as shown in the figures. 6 & 8 pole motors are available upon request.



PAYBACK TIME :

Efficiency of std. HM motor	: 89%
Efficiency of EE HM motor	: 91.0%
Motor power	: 11.0 Kw.
No. of Hrs of operation p.a.	: 5000 hrs.
Energy saved p.a. @ 4.0/Kwh	: Rs. 5432.77
Additional cost of EE motor	: Rs. 2700.00
PAYBACK PERIOD	: 6 MONTHS

APPLICATION :

Energy efficient motors are specially suited for industries which are power intensive and equipments which run on constant load for long duration.