

# JOSLYN MOTORS



## FIRE PUMP MOTORS

TOTALLY ENCLOSED FAN COOLED



SHIELD

# TOTALLY ENCLOSED FAN COOLED

Joslyn brand Fire Pump motors are UL Listed as per the requirements mentioned in the UL standard UL 1004-5. These motors are specifically designed for utilizing along with fire pumps that are installed as per NFPA 20. These motors are the best choice for such applications that require high reliability as all the relevant performance characteristics have undergone detailed evaluation confirming the conformance to the parameters stipulated by the related standards. These motors are protected by an Totally Enclosed Fan Cooled Enclosure.

The main advantage of using the Totally Enclosed Fan Cooled Enclosure motors is that it provides better protection for inner windings, contacts and bearing as they are protected in an enclosed casing from contaminants in outside environment like dust and grit. Motors under this series are horizontally mounted and are classified as low voltage squirrel cage medium induction motors.

# JOS

S E R I E S

## MOTOR RATINGS

Joslyn Totally Enclosed Fan Cooled Motors are designed as per NEMA MG1 and tested as per UL 1004-5.

Precise manufacturing of parts provide consistence, dependable performance.

### POWER RANGE



### SPEED RANGE



\*\*These values only indicates overall range available in this series.

## JOSLYN TEFC MOTOR

### FEATURE



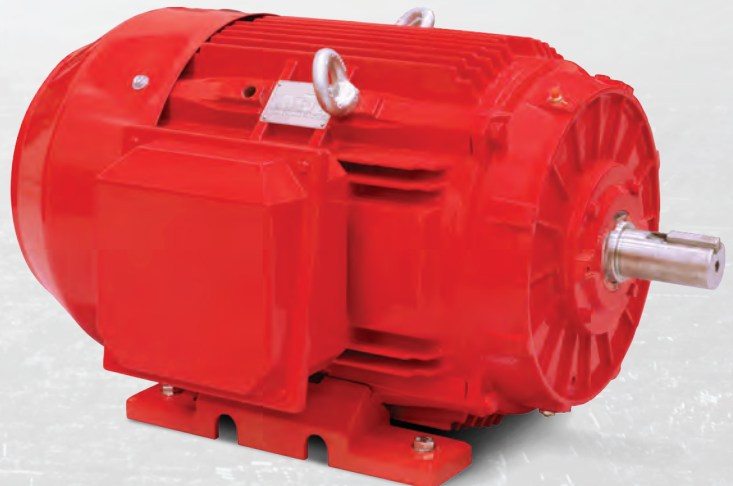
RELIABLE  
PERFORMANCE



EFFICIENT  
COOLING



RUGGED  
CONSTRUCTION



# JS SERIES PRODUCT SCOPE

Stainless Steel / Cast Iron frame motors designed to meet the demands of Reliability, Efficiency, and Quality expected from JOSLYN.



## 1 OVERALL RATINGS

### 2 POLE AVAILABLE RATINGS : 10 HP - 500 HP

**Rated Voltage** 380-400-415v (50Hz), 208-230v (60Hz), 380-400v (60Hz), 440-460v (60Hz) & 575 (60Hz)

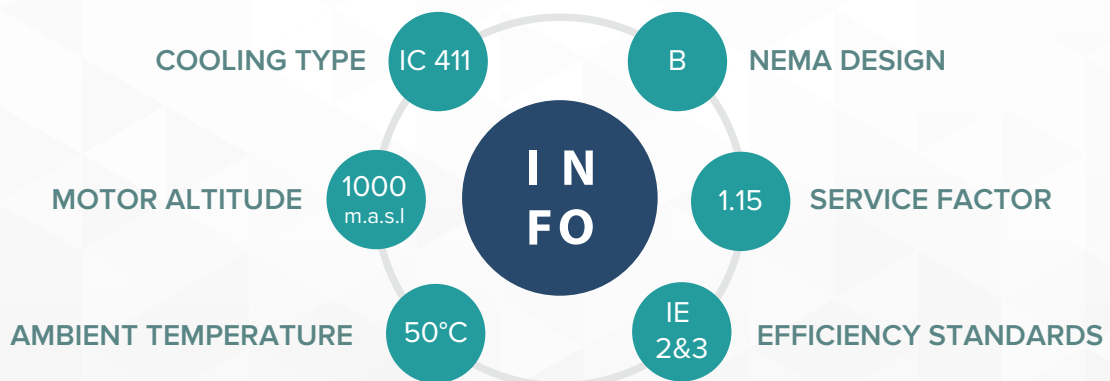
**Rated Speed** 2923 - 2980 (50Hz) & 3506 - 3575 (60Hz)

### 4 POLE AVAILABLE RATINGS : 10 HP - 400 HP

**Rated Voltage** 380 - 415V (50Hz), 208 - 230v (60Hz), 380-400v (60Hz), 460v (60Hz) & 575v (60 Hz)

**Rated Speed** 1460 - 1480 RPM (50Hz) & 1750 - 1780 RPM (60Hz)

## 2 STANDARD FEATURE



An Open Drip Proof or ODP motor is a type of motor that typically runs cooler and does not overheat. Due to the fact that the chamber has open vents and air can flow directly over the windings, this open drip proof motor tends to be slightly more efficient because the windings are cooler.

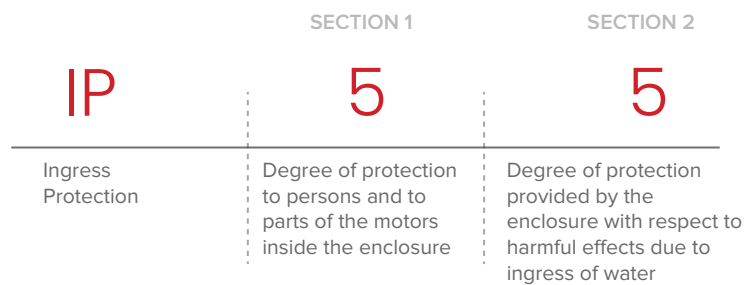
# APPLICATION INFORMATION

## Degree of Protection : IP code and resistance to impact

### IP PROTECTION

Protection of persons against getting in contact with (or approaching) live parts and against contact with moving parts inside the enclosure. Also protection of the machine against ingress of solid foreign objects. Protection of machines against the harmful effects due to the ingress of water.

### IP CODE BREAKDOWN



#### SECTION 1

- 2: Motors protected against solid objects greater than 12 mm in diameter
- 3: Motors protected against solid objects greater than 2.5 mm in diameter
- 4: Motors protected against solid objects greater than 1 mm in diameter
- 5: Protection against accumulation of harmful dust, Limited Ingress of dust permitted.

#### SECTION 2

- 2: Protected against vertically dripping water at a 15° angle
- 3: Protected against direct sprays at angle up to 60 °
- 4: Protected against low - pressure water jets at any angle.
- 5: Protected against low-pressure water jets at any angle.

# APPLICATION INFORMATION

## Nameplate Terminology

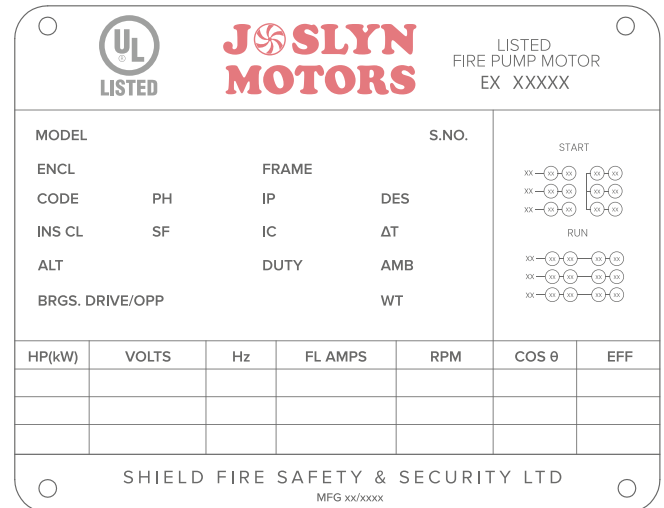
Enclosure : JOSLYN Motors are available in various enclosures; Application conditions will determine the type of enclosure required.

Continuous Duty : The continuous rating is the maximum constant load that can be carried continuously without exceeding established temperature rise limitations under prescribed conditions of load and within the limitations of established standards.

Efficiency : Ratio of power output to power input indicated as a percentage. In motors, it is the effectiveness with which a motor converts electrical power into mechanical power.

Frequency : Number of cycles per second of alternating current - 50 & 60 hz

Power Factor : Power factor is the ratio of real power (kW) to total kVA, or the ratio of actual power (W) to apparent power (voltamperes)



## Nameplate Rating

The rating plates are in table form giving values for speed, output, current and power factor at different voltages, there are one - three rows available depending on the different voltages available, usually is the corresponding voltages for Wye/Star delta connection.

The following information will be shown on the motor rating plate:

- 1) Enclosure Type
- 2) Frame Size
- 3) Phase
- 4) IP Rating
- 5) Insulation Class
- 6) Ambient Temperature
- 7) Motor Weight
- 8) Motor Bearing Number
- 9) Year of Manufacturing
- 10) Wiring Diagram
- 11) Identification Number of the Certification Body

# QUALITY ASSURED

Joslyn Motors combine cost-effective standardized design with safety, productivity, energy efficiency and reliability in mind.

## SHIELD

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In line with SHIELD policy for continuous product development, SHIELD has the right to change specifications without prior notice.

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