

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

|  |   |                             |  |           |          |
|--|---|-----------------------------|--|-----------|----------|
| Customer   |   |                             |  |           |          |
| Product line   | : JM Pump NEMA Premium Efficiency Three-Phase | Product code :              | 13634356   |           |          |
| Frame  | : 213/5JM                                     | Cooling method              | : IC01 - ODP   |           |          |
| Insulation class   | : F   | Mounting                    | : W-6  |           |          |
| Duty cycle   | : Cont.(S1)                                   | Rotation <sup>1</sup>       | : Both (CW and CCW)  |           |          |
| Ambient temperature  | : -20°C to +40°C                              | Starting method             | : Direct On Line   |           |          |
| Altitude   | : 1000 m.a.s.l.                               | Approx. weight <sup>3</sup> | : 55.5 kg  |           |          |
| Design   | : B   | Moment of inertia (J)       | : 0.0196 kgm <sup>2</sup>  |           |          |
| Output [HP]  | 10  |                             |  |           |          |
| Poles  | 2   |                             |  |           |          |
| Frequency [Hz]   | 60  |                             |  |           |          |
| Rated voltage [V]  | 575   |                             |  |           |          |
| Rated current [A]  | 9.60  |                             |  |           |          |
| L. R. Amperes [A]  | 65.3  |                             |  |           |          |
| LRC [A]  | 6.8x(Code H)                                  |                             |  |           |          |
| No load current [A]  | 3.73  |                             |  |           |          |
| Rated speed [RPM]  | 3535  |                             |  |           |          |
| Slip [%]   | 1.81  |                             |  |           |          |
| Rated torque [kgfm]  | 2.05  |                             |  |           |          |
| Locked rotor torque [%]  | 200   |                             |  |           |          |
| Breakdown torque [%]   | 280   |                             |  |           |          |
| Service factor   | 1.15  |                             |  |           |          |
| Temperature rise   | 80 K  |                             |  |           |          |
| Locked rotor time  | 19s (cold) 11s (hot)                          |                             |  |           |          |
| Noise level <sup>2</sup>   | 66.0 dB(A)                                    |                             |  |           |          |
| Efficiency (%)   | 25%   |                             |  |           |          |
|  | 50%   | 88.5                        |  |           |          |
|  | 75%   | 89.5                        |  |           |          |
|  | 100%  | 89.5                        |  |           |          |
| Power Factor   | 25%   |                             |  |           |          |
|  | 50%   | 0.74                        |  |           |          |
|  | 75%   | 0.84                        |  |           |          |
|  | 100%  | 0.88                        |  |           |          |
| Bearing type   | : Drive end                                   | Non drive end               | Foundation loads   |           |          |
| Sealing  | : Without                                     | Without                     | Max. traction  | : 78 kgf  |          |
| Lubrication interval   | : -   | -                           | Max. compression   | : 134 kgf |          |
| Lubricant amount   | : -   | -                           |  |           |          |
| Lubricant type   | : Mobil Polyrex EM                            |                             |  |           |          |
| Notes  |   |                             |  |           |          |
| This revision replaces and cancel the previous one, which must be eliminated.<br>(1) Looking the motor from the shaft end.<br>(2) Measured at 1m and with tolerance of +3dB(A).<br>(3) Approximate weight subject to changes after manufacturing process.<br>(4) At 100% of full load. |   |                             | These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1. |           |          |
| Rev.   | Changes Summary                               |                             | Performed  | Checked   | Date     |
| Performed by   |   |                             |  |           |          |
| Checked by   |   |                             |  | Page      | Revision |
| Date   | 16/05/2022                                    |                             |  | 1 / 2     |          |

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

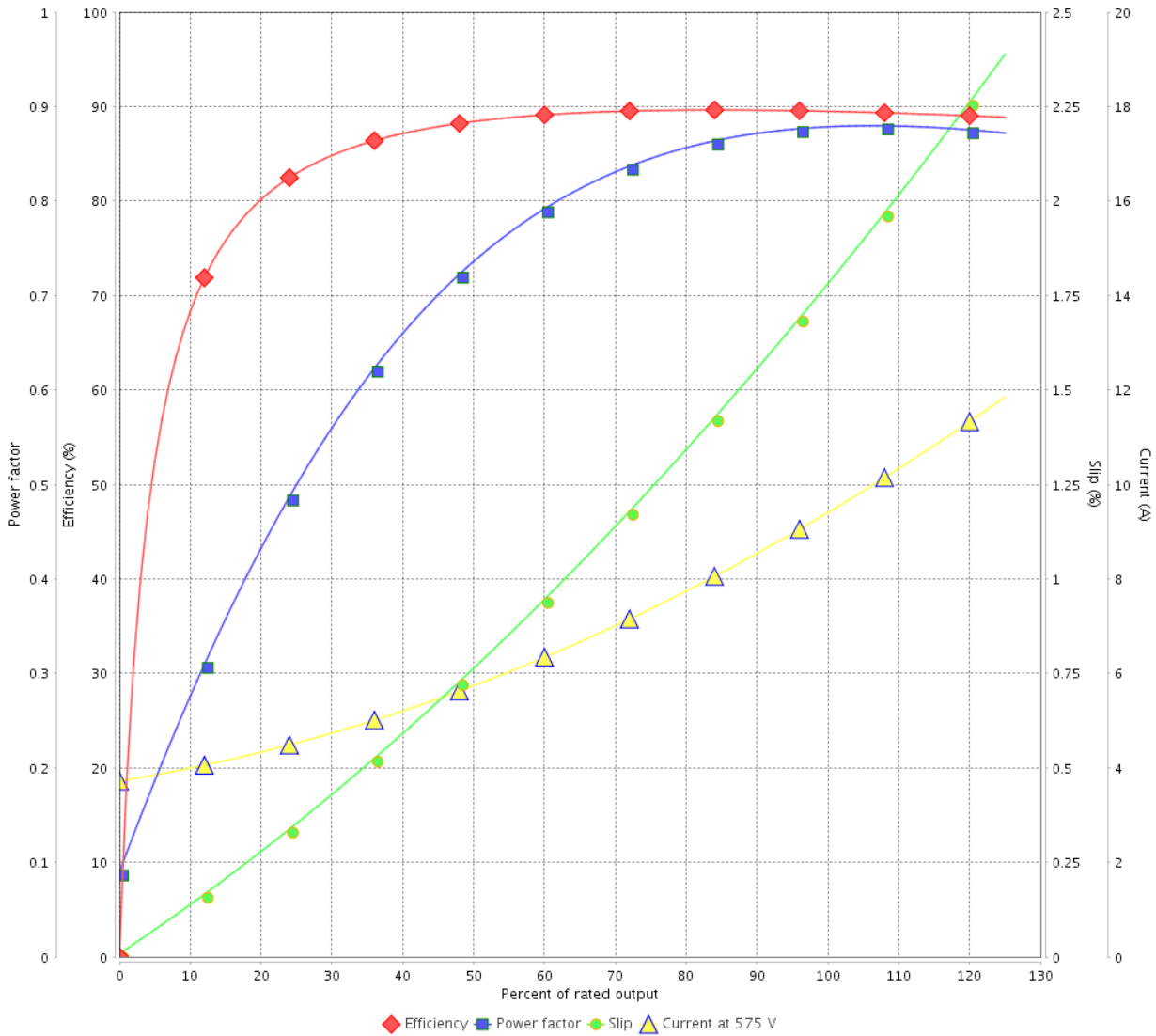


Customer :

Product line : JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13634356

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current : 9.60 A  
LRC : 6.8  
Rated torque : 2.05 kgfm  
Locked rotor torque : 200 %  
Breakdown torque : 280 %  
Rated speed : 3535 rpm

Moment of inertia (J) : 0.0196 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary | Performed | Checked       | Date     |
|--------------|-----------------|-----------|---------------|----------|
|              |                 |           |               |          |
| Performed by |                 |           | Page<br>2 / 2 | Revision |
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| Date         | 16/05/2022      |           |               |          |