

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | | | | | | | | | | | | | | | |
|---|-----------------|----------------------|--|----------------------|---------|----------|------|----------------|------|------|------|------|--------------|------|------|------|------|---|--|--|
| Customer : | | | | | | | | | | | | | | | | | | | | |
| Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase | | | Product code : 13469145 | | | | | | | | | | | | | | | | | |
| Frame : 364/5JP Output : 75 HP (55 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 575 V Rated current : 66.7 A L. R. Amperes : 427 A LRC : 6.4x(Code G) No load current : 18.8 A Rated speed : 3560 rpm Slip : 1.11 % Rated torque : 15.3 kgfm Locked rotor torque : 180 % Breakdown torque : 280 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.2870 kgm ² Design : B | | | Locked rotor time : 25s (cold) 14s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP23 Cooling method : IC01 - ODP Mounting : W-6 Rotation ¹ : Both (CW and CCW) Noise level ² : 80.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 343 kg | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Output</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>93.5</td> <td>93.6</td> <td>94.1</td> <td>94.1</td> </tr> <tr> <td>Power Factor</td> <td>0.54</td> <td>0.78</td> <td>0.85</td> <td>0.88</td> </tr> </table> | | | Output | 25% | 50% | 75% | 100% | Efficiency (%) | 93.5 | 93.6 | 94.1 | 94.1 | Power Factor | 0.54 | 0.78 | 0.85 | 0.88 | Foundation loads Max. traction : 310 kgf Max. compression : 652 kgf | | |
| Output | 25% | 50% | 75% | 100% | | | | | | | | | | | | | | | | |
| Efficiency (%) | 93.5 | 93.6 | 94.1 | 94.1 | | | | | | | | | | | | | | | | |
| Power Factor | 0.54 | 0.78 | 0.85 | 0.88 | | | | | | | | | | | | | | | | |
| | | <u>Drive end</u> | | <u>Non drive end</u> | | | | | | | | | | | | | | | | |
| Bearing type : | | 6314 C3 | | 6314 C3 | | | | | | | | | | | | | | | | |
| Sealing : | | Without Bearing Seal | | Without Bearing Seal | | | | | | | | | | | | | | | | |
| Lubrication interval : | | 7209 h | | 7209 h | | | | | | | | | | | | | | | | |
| Lubricant amount : | | 27 g | | 27 g | | | | | | | | | | | | | | | | |
| Lubricant type : | | Mobil Polyrex EM | | | | | | | | | | | | | | | | | | |
| Notes: | | | | | | | | | | | | | | | | | | | | |
| This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (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 | 15/01/2024 | | | | 1 / 2 | | | | | | | | | | | | | | | |

LOAD PERFORMANCE CURVE

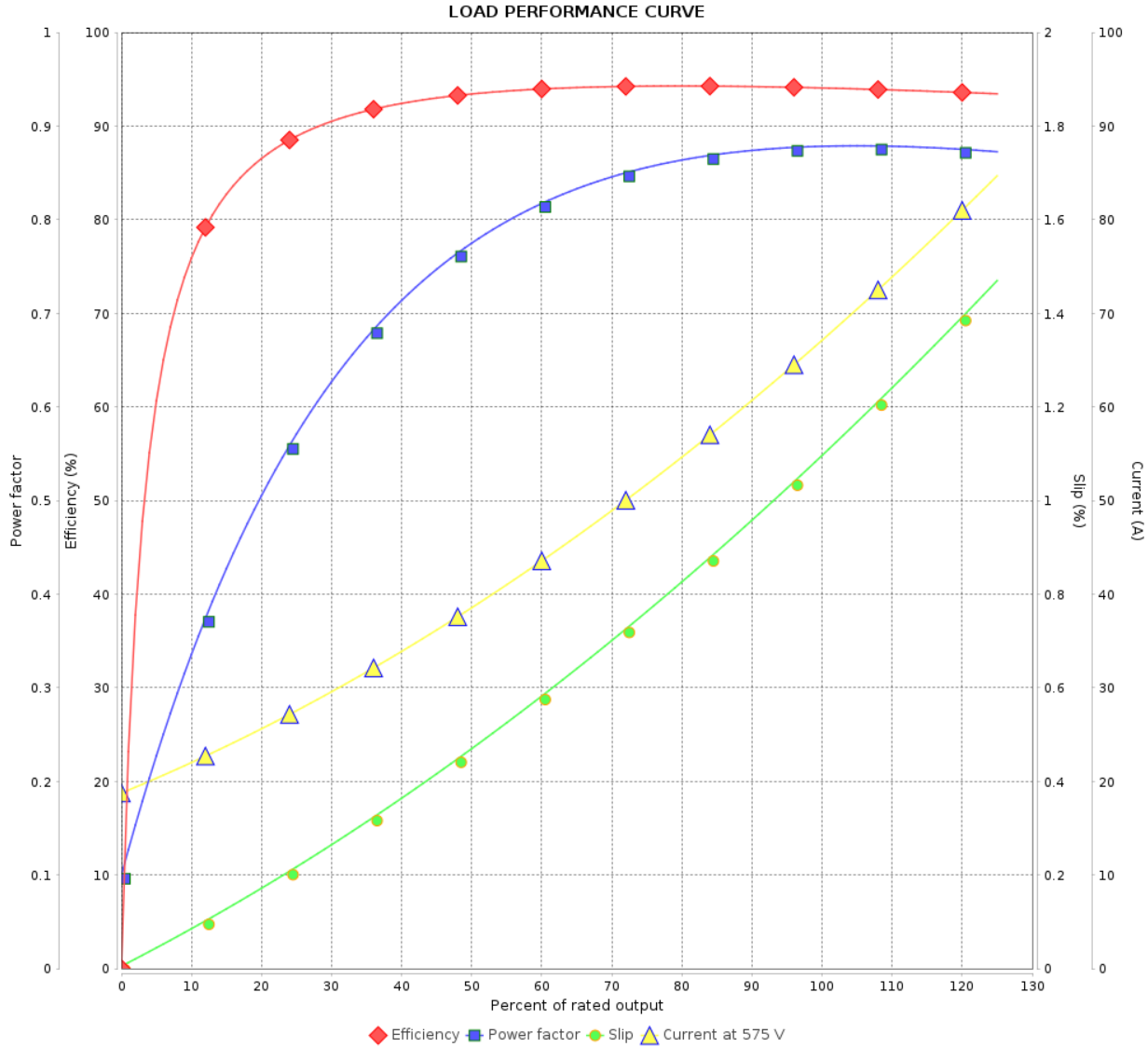
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 13469145



Performance : 575 V 60 Hz 2P

Rated current : 66.7 A
LRC : 6.4
Rated torque : 15.3 kgfm
Locked rotor torque : 180 %
Breakdown torque : 280 %
Rated speed : 3560 rpm

Moment of inertia (J) : 0.2870 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

| Rev. | Changes Summary | Performed | Checked | Date |
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| | | | | |
| Performed by | | | Page 2 / 2 | Revision |
| Checked by | | | | |
| Date | 15/01/2024 | | | |