

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | |
|--|-----------------|--|--------------|--|---------------|----------------------|
| Customer : | | | | | | |
| Product line | | : W22 IEEE 841 NEMA Premium Efficiency Three-Phase | | Product code : | | 12819710 |
| Frame | : | 445/7T | | Locked rotor time | : | 28s (cold) 16s (hot) |
| Output | : | 200 HP (150 kW) | | Temperature rise | : | 80 K |
| Poles | : | 4 | | Duty cycle | : | Cont.(S1) |
| Frequency | : | 60 Hz | | Ambient temperature | : | -20°C to +40°C |
| Rated voltage | : | 575 V | | Altitude | : | 1000 m.a.s.l. |
| Rated current | : | 184 A | | Protection degree | : | IP55 |
| L. R. Amperes | : | 1251 A | | Cooling method | : | IC411 - TEFC |
| LRC | : | 6.8x(Code G) | | Mounting | : | F-1 |
| No load current | : | 56.0 A | | Rotation ¹ | : | Both (CW and CCW) |
| Rated speed | : | 1785 rpm | | Noise level ² | : | 73.0 dB(A) |
| Slip | : | 0.83 % | | Starting method | : | Direct On Line |
| Rated torque | : | 81.3 kgfm | | Approx. weight ³ | : | 1045 kg |
| Locked rotor torque | : | 229 % | | | | |
| Breakdown torque | : | 250 % | | | | |
| Insulation class | : | F | | | | |
| Service factor | : | 1.15 | | | | |
| Moment of inertia (J) | : | 3.21 kgm ² | | | | |
| Design | : | B | | | | |
| Output | 50% | 75% | 100% | Foundation loads | | |
| Efficiency (%) | 95.8 | 96.2 | 96.2 | Max. traction | : | 1256 kgf |
| Power Factor | 0.73 | 0.82 | 0.85 | Max. compression | : | 2300 kgf |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | | |
| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
| 4.0 | 3.2 | 2.9 | 2.0 | 1.3 | 0.9 | 0.5 |
| | | <u>Drive end</u> | | <u>Non drive end</u> | | |
| Bearing type | : | 6319 C3 | | 6316 C3 | | |
| Sealing | : | Taconite Labyrinth | | Taconite Labyrinth | | |
| Lubrication interval | : | 8000 h | | 10000 h | | |
| Lubricant amount | : | 45 g | | 34 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 | 13/01/2024 | | | | 1 / 2 | |

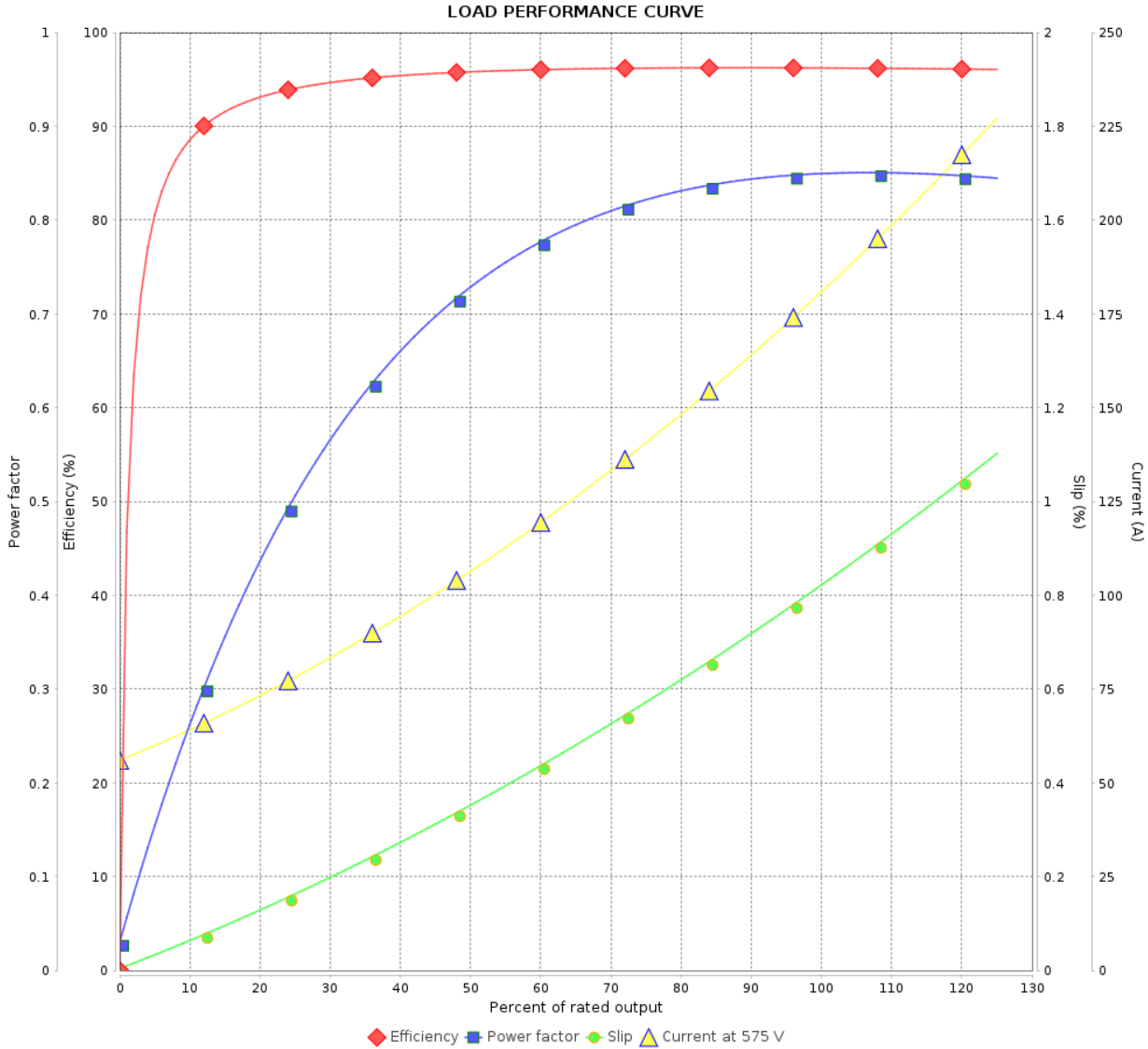
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 12819710



Performance : 575 V 60 Hz 4P

| | | | |
|---------------------|-------------|-----------------------|-------------------------|
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| LRC | : 6.8 | Duty cycle | : Cont.(S1) |
| Rated torque | : 81.3 kgfm | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : 1.15 |
| Breakdown torque | : 250 % | Temperature rise | : 80 K |
| Rated speed | : 1785 rpm | Design | : B |

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