

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 15733440

| | | | |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame | : 256LP | Locked rotor time | : 46s (cold) 26s (hot) |
| Output | : 20 HP (15 kW) | Temperature rise | : 80 K |
| Poles | : 2 | 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 | : 18.6 A | Protection degree | : IP55 |
| L. R. Amperes | : 115 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.2x(Code G) | Mounting | : W-6 |
| No load current | : 5.52 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 3530 rpm | Noise level ² | : 75.0 dB(A) |
| Slip | : 1.94 % | Starting method | : Direct On Line |
| Rated torque | : 4.11 kgfm | Approx. weight ³ | : 170 kg |
| Locked rotor torque | : 200 % | | |
| Breakdown torque | : 250 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 0.0611 kgm ² | | |
| Design | : B | | |

| | | | | | |
|----------------|-------|------|------|------|------------------|
| Output | 25% | 50% | 75% | 100% | Foundation loads |
| Efficiency (%) | 0.000 | 90.2 | 91.0 | 91.0 | Max. traction |
| Power Factor | 0.00 | 0.79 | 0.86 | 0.89 | Max. compression |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6309 | 7309BECB |
| Sealing | : | Oil Seal | Lip Seal |
| Lubrication interval | : | 7898 h | 4933 h |
| Lubricant amount | : | 13 g | 13 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 | 22/10/2023 | | 1 / 2 | |

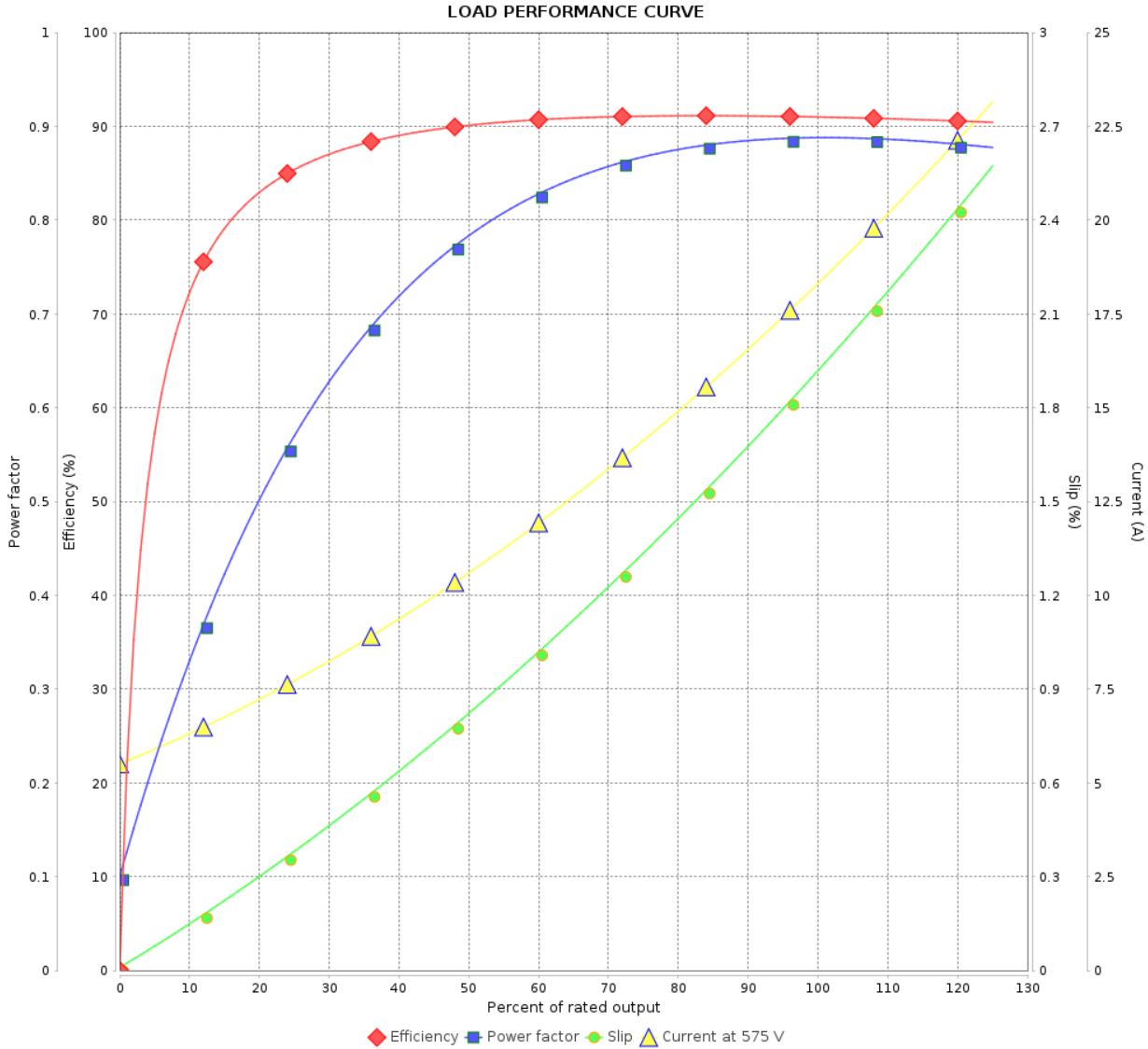
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Product code : 15733440
 Efficiency Three-Phase



Performance : 575 V 60 Hz 2P

| | | | |
|---------------------|-------------|-----------------------|---------------------------|
| Rated current | : 18.6 A | Moment of inertia (J) | : 0.0611 kgm ² |
| LRC | : 6.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 4.11 kgfm | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.15 |
| Breakdown torque | : 250 % | Temperature rise | : 80 K |
| Rated speed | : 3530 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------------|----------|
| | | | | |
| Performed by | | | Page 2 / 2 | Revision |
| Checked by | | | | |
| Date | 22/10/2023 | | | |