

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | | |
|--|---------------------------|------------------|-----------------------------|--|---------------|----------------|
| Customer : | | | | | | |
| Product line : W22 NEMA Premium Efficiency Three-Phase | | | Product code : 16165609 | | | |
| Frame | : 254/6T | | Locked rotor time | : 19s (cold) 11s (hot) | | |
| Output | : 10 HP (7.5 kW) | | Temperature rise | : 80 K | | |
| Poles | : 6 | | Duty cycle | : Cont.(S1) | | |
| Frequency | : 50 Hz | | Ambient temperature | : -20°C to +40°C | | |
| Rated voltage | : 380/660 V | | Altitude | : 1000 m.a.s.l. | | |
| Rated current | : 16.9/9.73 A | | Protection degree | : IP55 | | |
| L. R. Amperes | : 105/60.3 A | | Cooling method | : IC411 - TEFC | | |
| LRC | : 6.2x(Code H) | | Mounting | : F-1 | | |
| No load current | : 7.00/4.03 A | | Rotation ¹ | : Both (CW and CCW) | | |
| Rated speed | : 975 rpm | | Noise level ² | : 57.0 dB(A) | | |
| Slip | : 2.50 % | | Starting method | : Direct On Line | | |
| Rated torque | : 7.44 kgfm | | Approx. weight ³ | : 148 kg | | |
| Locked rotor torque | : 240 % | | | | | |
| Breakdown torque | : 270 % | | | | | |
| Insulation class | : F | | | | | |
| Service factor | : 1.15 | | | | | |
| Moment of inertia (J) | : 0.1867 kgm ² | | | | | |
| Design | : B | | | | | |
| Output | 50% | 75% | 100% | Foundation loads | | |
| Efficiency (%) | 89.0 | 91.0 | 91.0 | Max. traction | : 242 kgf | |
| Power Factor | 0.54 | 0.67 | 0.74 | Max. compression | : 390 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) |
| 9.8 | 8.9 | 8.8 | 4.4 | 3.3 | 2.1 | 1.6 |
| | | <u>Drive end</u> | | <u>Non drive end</u> | | |
| Bearing type | : | 6309 C3 | | 6209 C3 | | |
| Sealing | : | V'Ring | | V'Ring | | |
| Lubrication interval | : | 20000 h | | 20000 h | | |
| Lubricant amount | : | 13 g | | 9 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

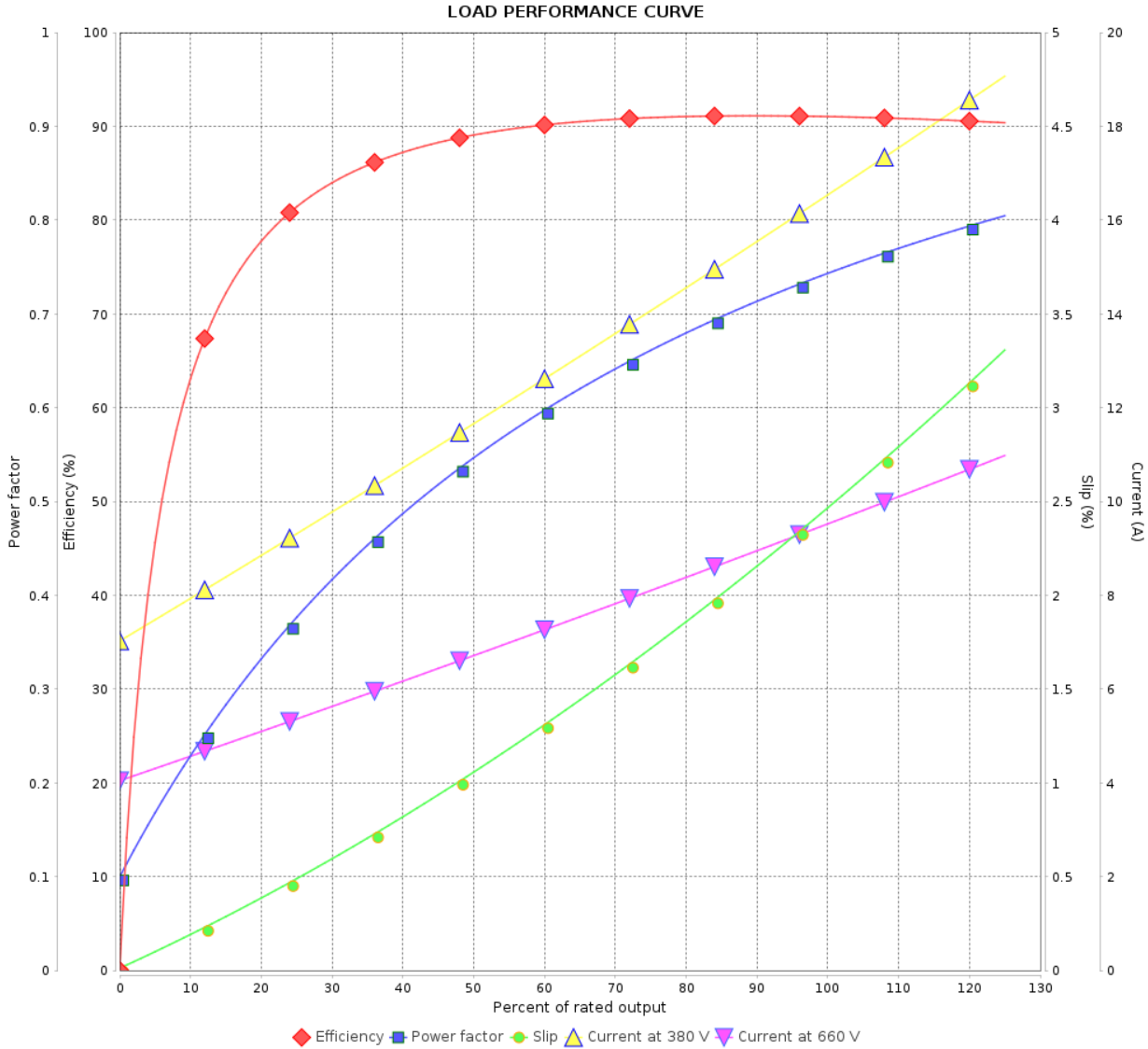
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 16165609



Performance : 380/660 V 50 Hz 6P

Rated current : 16.9/9.73 A
 LRC : 6.2
 Rated torque : 7.44 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 975 rpm

Moment of inertia (J) : 0.1867 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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