## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 13780982 Three-Phase : 284T Locked rotor time Frame : 48s (cold) 27s (hot) Output : 20 HP (15 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Rated voltage : 575 V Altitude : IP55 Rated current : 19.3 A Protection degree : IC411 - TEFC L. R. Amperes : 116 A Cooling method **LRC** : 6.0x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 6.16 A Rotation<sup>1</sup> Rated speed : 1770 rpm Noise level<sup>2</sup> : 63.0 dB(A) Slip : 1.67 % Starting method : Direct On Line Rated torque : 8.20 kgfm Approx. weight<sup>3</sup> : 173 kg Locked rotor torque : 200 % Breakdown torque : 240 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.2153 kgm<sup>2</sup> Design : B 50% 75% 100% Output Foundation loads Efficiency (%) 92.4 93.0 93.0 Max. traction : 195 kgf : 368 kgf Power Factor 0.70 0.80 0.84 Max. compression 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) 7.4 6.3 3.3 2.3 1.4 0.9 Drive end Non drive end 6211 C3 Bearing type 6311 C3 V'Ring Sealing V'Ring 20000 h 20000 h Lubrication interval Lubricant amount 18 g 11 g Lubricant type Mobil Polyrex EM Notes This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (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

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## LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

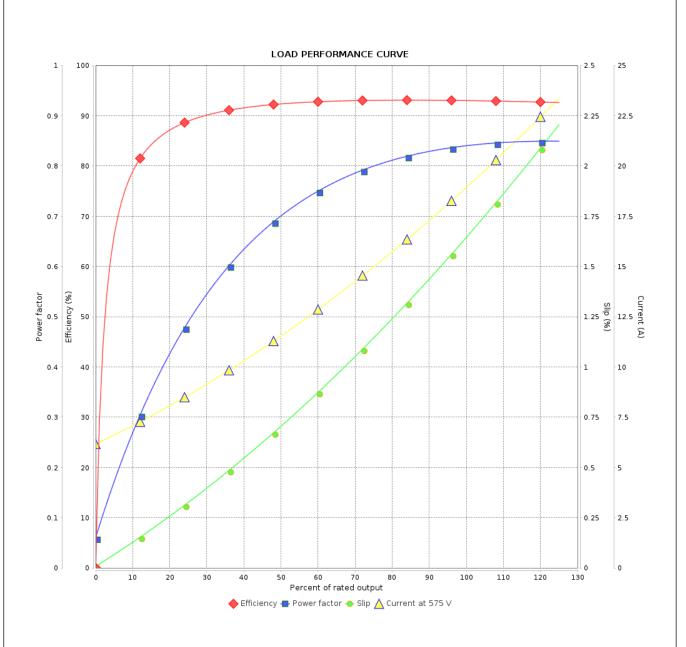
Date

21/10/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 13780982



Performance : 575 V 60 Hz 4P : 19.3 A Rated current Moment of inertia (J) : 0.2153 kgm<sup>2</sup> **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 8.20 kgfm : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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