## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Product code: 13714543 Efficiency Three-Phase Frame : 143/5TC Locked rotor time : 39s (cold) 22s (hot) Output : 1 HP (0.75 kW) Temperature rise : 80 K Poles : 4 Duty cycle : Cont.(S1) Frequency : 50 Hz Ambient temperature : -20°C to +40°C Rated voltage : 380 V Altitude : 1000 m.a.s.l. : IP56 Protection degree Rated current : 1.78 A L. R. Amperes : 15.8 A Cooling method : IC411 - TEFC **LRC** : 8.9x(Code M) Mounting : F-1 No load current : 1.10 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1462 rpm Noise level<sup>2</sup> : 49.0 dB(A) Slip : 2.53 % Starting method : Direct On Line Rated torque : 0.496 kgfm Approx. weight<sup>3</sup> : 25.2 kg Locked rotor torque : 300 % Breakdown torque : 350 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.0055 kgm<sup>2</sup> Design : B 75% 50% 100% Foundation loads Output Efficiency (%) 82.5 85.5 85.5 Max. traction : 37 kgf Power Factor 0.56 0.68 0.75 Max. compression : 62 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) 15.9 13.4 13.7 9.6 6.9 5.5 4.2 Drive end Non drive end Bearing type 6205 C3 6204 C3 Inpro/Seal Inpro/Seal Sealing 20000 h Lubrication interval 20000 h Lubricant amount 4 g 4 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

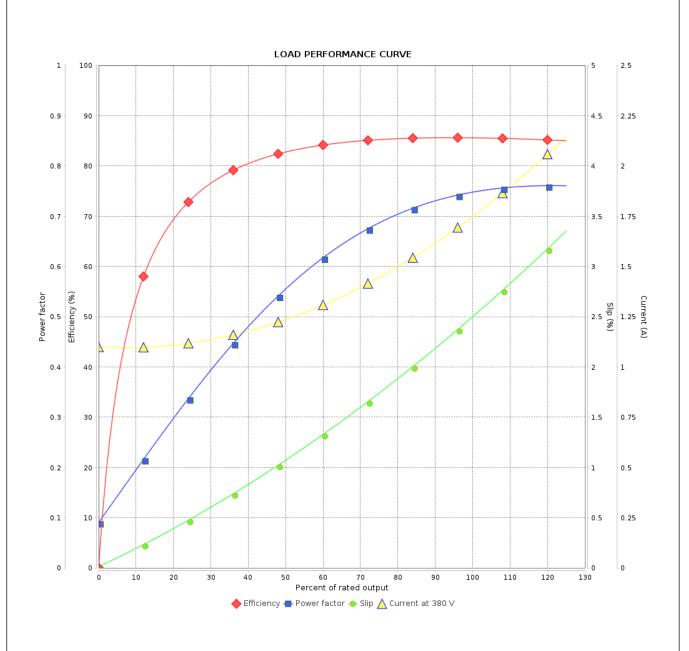


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 13714543



Performance	: 380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.78 A : 8.9 : 0.496 kgfm : 300 % : 350 % : 1462 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0055 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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