DATA SHEET

Checked by

Date

22/10/2024

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12148058 Efficiency Three-Phase : 182/4TC Locked rotor time Frame : 45s (cold) 25s (hot) Output : 5 HP (3.7 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 2 Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current : 4.72 A Protection degree : IP56 : IC411 - TEFC L. R. Amperes : 35.9 A Cooling method LRC : 7.6x(Code J) Mounting : F-1 No load current : 1.60 A Rotation¹ : Both (CW and CCW) Rated speed : 3485 rpm Noise level² : 66.0 dB(A) Slip : 3.19 % Starting method : Direct On Line Rated torque : 1.04 kgfm Approx. weight³ : 49.1 kg Locked rotor torque : 229 % Breakdown torque : 350 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.0094 kgm² Design : B 50% 75% 100% Output Foundation loads : 51 kgf Efficiency (%) 86.5 88.5 88.5 Max. traction : 101 kgf Power Factor 0.76 0.85 0.89 Max. compression Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P4 (0,9;0,5) P1 (0,9;1,0) P3 (0,25;1,0) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 12.4 9.9 8.9 6.2 3.7 2.3 1.4 Drive end Non drive end Bearing type 6207 C3 6206 C3 Inpro/Seal Inpro/Seal Sealing 20000 h 20000 h Lubrication interval Lubricant amount 7 g 5 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. Performed Checked Rev. **Changes Summary** Date Performed by

Page

1/2

Revision

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

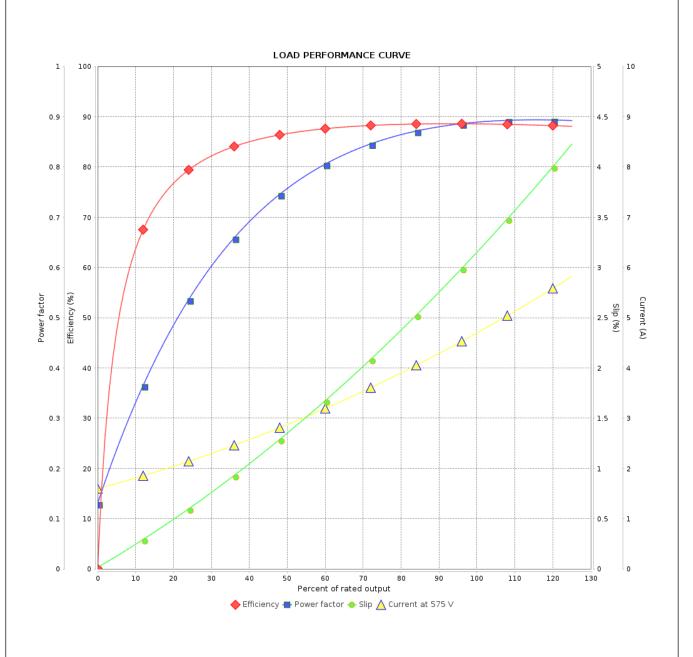


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12148058



Performance	: 575 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.72 A : 7.6 : 1.04 kgfm : 229 % : 350 % : 3485 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0094 kgm ² : Cont.(S1) : F : 1.25 : 80 K : B	2
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

2/2

22/10/2024

Date