DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11938997 : 143/5TC Locked rotor time Frame : 18s (cold) 10s (hot) Output : 2 HP (1.5 kW) Temperature rise : 80 K Poles 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 : 2.23 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 18.5 A Cooling method LRC : 8.3x(Code L) Mounting : F-1 : Both (CW and CCW) No load current : 1.30 A Rotation¹ Rated speed : 1750 rpm Noise level² : 51.0 dB(A) Slip : 2.78 % Starting method : Direct On Line Rated torque : 0.829 kgfm Approx. weight3 : 26.2 kg Locked rotor torque : 270 % Breakdown torque : 320 % : F Insulation class Service factor : 1.25 : 0.0066 kgm² Moment of inertia (J) Design : B 75% Output 50% 100% Foundation loads Efficiency (%) 85.5 86.5 86.5 Max. traction : 62 kgf Power Factor 0.57 0.70 0.78 Max. compression : 89 kgf 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) 15.0 12.8 12.1 8.4 6.0 4.7 3.5 Drive end Non drive end Bearing type 6205 C3 6204 C3 Sealing Taconite Labyrinth Taconite Labyrinth 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 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	13/01/2024				1/2	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

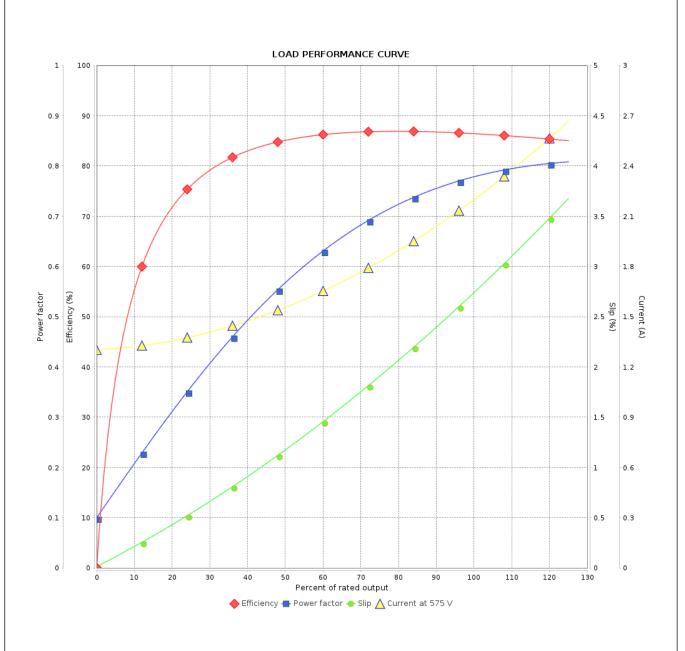


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 11938997



Performance	: 57	75 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8. : 0. que : 27 ue : 32	: 2.23 A : 8.3 : 0.829 kgfm : 270 % : 320 % : 1750 rpm		of inertia (J) e class actor ure rise	: 0.0066 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
'		·	Design	Danfarmand		Data
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision

2/2

13/01/2024

Date