DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : ODP NEMA Premium Efficiency Three-Product code: 10637943 Locked rotor time Frame : 364/5T : 27s (cold) 15s (hot) Output : 60 HP (45 kW) Temperature rise : 80 K Poles : 4 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 : 55.9 A Protection degree : IP23 : IC01 - ODP L. R. Amperes : 375 A Cooling method **LRC** : 6.7x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 17.6 A Rotation¹ Rated speed : 1780 rpm Noise level² : 68.0 dB(A) Slip : 1.11 % Starting method : Direct On Line Rated torque : 24.5 kgfm Approx. weight³ : 357 kg Locked rotor torque : 220 % Breakdown torque : 250 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.6555 kgm² Design 25% 50% 100% Output 75% Foundation loads Efficiency (%) 94.0 94.5 94.5 95.0 Max. traction : 509 kgf Power Factor : 866 kgf 0.50 0.74 0.83 0.85 Max. compression Drive end Non drive end 6314 C3 Bearing type 6314 C3 Without Bearing Seal Without Bearing Seal Sealing 20000 h Lubrication interval 20000 h Lubricant amount 27 g 27 g

Mobil Polyrex EM

Notes:

Lubricant type

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	05/02/2024			1/2	

LOAD PERFORMANCE CURVE

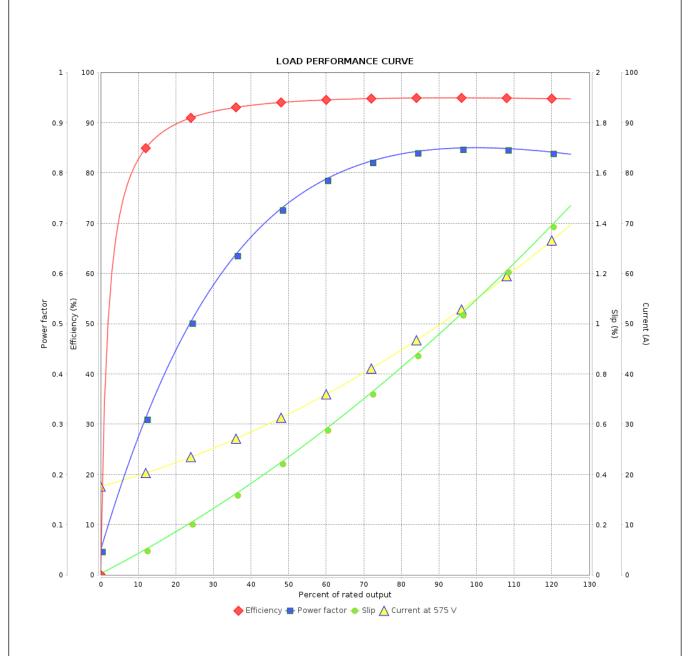
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : ODP NEMA Premium Efficiency ThreeProduct code:

10637943



Performance	: 5	75 V 60 Hz 4P					
Rated current	: 5	: 55.9 A Mome		of inertia (J)	: 0.6555 kgm²		
LRC		.7 Duty cycle		: Cont.(S1)			
Rated torque	: 2	4.5 kgfm	fm Insulation class		:F		
Locked rotor torqu	e : 2:	20 %	Service fa	Service factor		: 1.15	
Breakdown torque	: 2	•		ure rise	: 80 K		
Rated speed	: 1			Design			
Rev.	Changes Summary			Performed	Checked	Date	
Performed by							
Checked by		-			Page	Revision	
Date	05/02/2024				2/2		