DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Three-Product code: 14448251 : 444/5TC Locked rotor time Frame : 16s (cold) 9s (hot) Output : 250 HP (185 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 Protection degree Rated current : 231 A : IP23 : IC01 - ODP L. R. Amperes : 1480 A Cooling method **LRC** : 6.4x(Code G) Mounting : F-1 : Both (CW and CCW) No load current : 84.8 A Rotation¹ Rated speed : 1780 rpm Noise level² : 78.0 dB(A) : Direct On Line Slip : 1.11 % Starting method

Rated torque : 102 kgfm Approx. weight³ : 685 kg

Locked rotor torque : 210 %

Breakdown torque : 240 %

Insulation class : F

Service factor : 1.15

Moment of inertia (J) : 2.14 kgm²

Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 95.4 95.8 95.8 Max. traction : 1797 kgf Power Factor : 2482 kgf 0.72 0.80 0.84 Max. compression

Drive endNon drive endBearing type: 6319 C36212 Z C3Sealing: Without Bearing SealWithout Bearing SealLubrication interval: 20000 h20000 hLubricant amount: 45 g13 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	21/10/2023			1/2	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-

Product code:

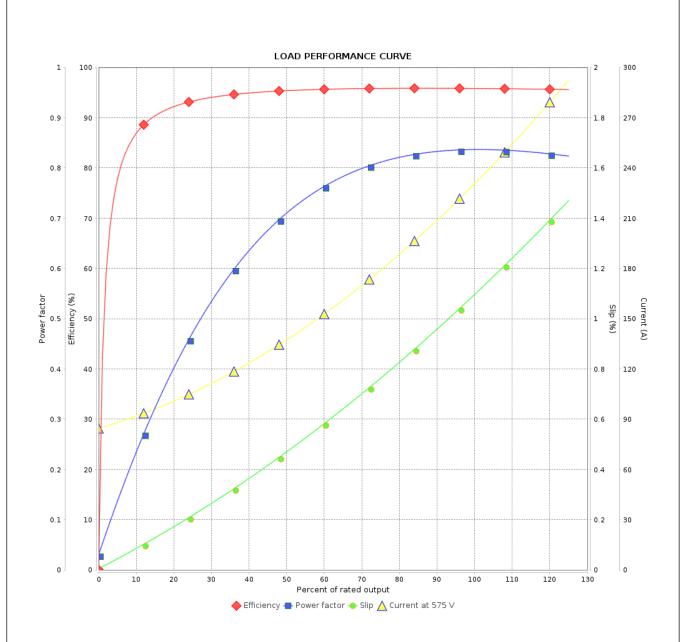
14448251

2/2



21/10/2023

Date



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 231 A : 6.4 : 102 kgfm : 210 % : 240 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.14 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary	P	erformed	Checked	Date
Performed by					
Checked by				Page	Revision