## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Three-Product code: 14663167 Locked rotor time Frame : 447/9T : 28s (cold) 16s (hot) Output : 300 HP (220 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 575 V : 1000 m.a.s.l. Rated voltage Altitude Protection degree Rated current : 271 A : IP23 Cooling method : IC01 - ODP L. R. Amperes : 1926 A **LRC** : 7.1x(Code H) Mounting : F-1 : Both (CW and CCW) No load current : 84.0 A Rotation<sup>1</sup> Rated speed : 1780 rpm Noise level<sup>2</sup> : 77.0 dB(A) Slip : 1.11 % Starting method : Direct On Line Rated torque : 122 kgfm Approx. weight<sup>3</sup> : 891 kg Locked rotor torque : 220 % Breakdown torque : 229 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 2.37 kgm<sup>2</sup> Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 95.8 95.8 95.8 Max. traction : 2015 kgf Power Factor : 2906 kgf 0.76 0.83 0.85 Max. compression Non drive end Drive end Bearing type NU-319 C3 6314 C3

Bearing type : NU-319 C3 6314 C3
Sealing : Without Bearing Seal
Lubrication interval : 18825 h 20000 h
Lubricant amount : 45 g 27 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.

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#### Thermal protection

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ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

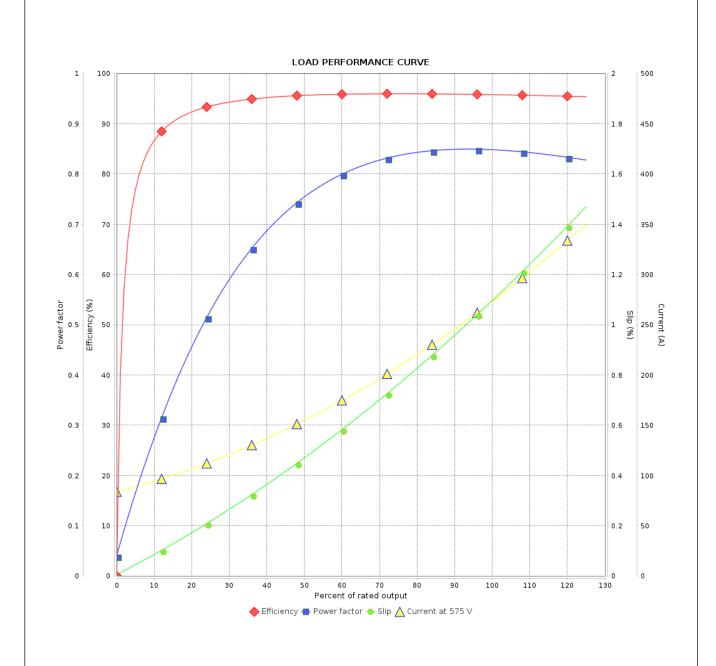
Date

15/01/2024

Product line : W40 NEMA Premium Efficiency Three- Product line : W40 NEMA Premium Efficiency Three-

Phase

Product code: 14663167



Performance		: 575 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 271 A : 7.1 : 122 kgfm : 220 % : 229 % : 1780 rpm	Di In Se Te	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.37 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	: Cont.(S1) : F : 1.15 : 80 K	
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