## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14600945 Efficiency Three-Phase : 449T Locked rotor time Frame : 12s (cold) 7s (hot) Output : 300 HP (220 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 : 281 A : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 2218 A **LRC** : 7.9x(Code J) Mounting : F-1 : Both (CW and CCW) No load current : 122 A Rotation<sup>1</sup> Rated speed : 1190 rpm Noise level<sup>2</sup> : 70.0 dB(A) Slip : 0.83 % Starting method : Direct On Line Rated torque : 183 kgfm Approx. weight<sup>3</sup> : 1488 kg Locked rotor torque : 280 % Breakdown torque : 300 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 6.09 kgm<sup>2</sup> Design : A 50% 75% Output 100% Foundation loads Efficiency (%) 95.0 95.4 95.8 Max. traction : 4058 kgf : 5545 kgf Power Factor 0.66 0.77 0.82 Max. compression Non drive end Drive end Bearing type 6322 C3 6319 C3 Viton Oil Seal Viton Seal Sealing Lubrication interval 9212 h 11094 h Lubricant amount 60 g 45 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	15/01/2024			1/3	

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



_	
Customer	
Customer	

#### Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	15/01/2024			2/3	

# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

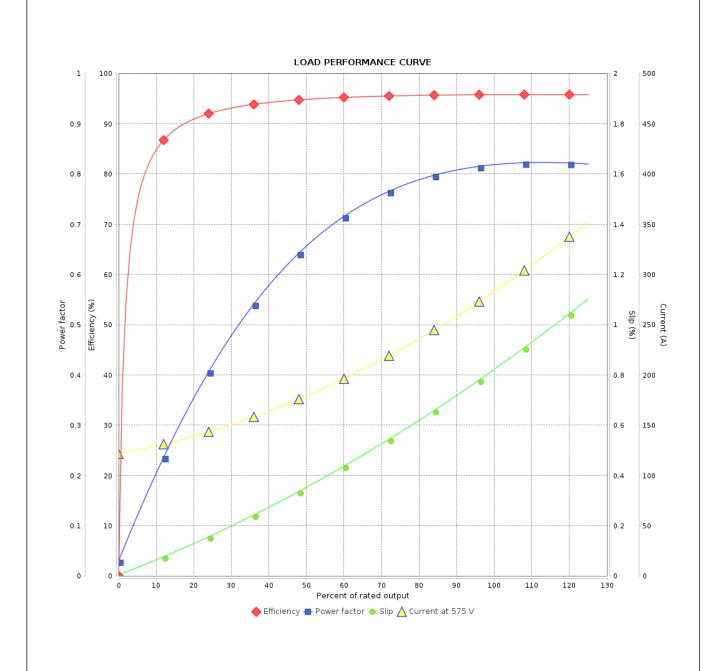


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14600945



Performance	: 575 V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 281 A : 7.9 : 183 kgfm : 280 % : 300 % : 1190 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 6.09 kgm² : Cont.(S1) : F : 1.15 : 80 K : A	
Rev.	Changes Summary	Performe	d Checked	Date
Performed by				
Checked by			Page	Revision

3/3

15/01/2024

Date