### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 11508504 Efficiency Three-Phase : 364/5T Locked rotor time Frame : 36s (cold) 20s (hot) Output : 50 HP (37 kW) Temperature rise : 80 K Poles : 6 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 : 46.5 A : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 344 A **LRC** : 7.4x(Code H) Mounting : F-1 : Both (CW and CCW) No load current : 16.8 A Rotation<sup>1</sup> Rated speed : 1182 rpm Noise level<sup>2</sup> : 65.0 dB(A) Slip : 1.50 % Starting method : Direct On Line Rated torque : 30.7 kgfm Approx. weight<sup>3</sup> : 472 kg Locked rotor torque : 229 % Breakdown torque : 250 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 1.24 kgm<sup>2</sup> Design : B 25% 50% 100% Output 75% Foundation loads Efficiency (%) 93.4 93.6 94.1 94.1 Max. traction : 627 kgf Power Factor 0.46 0.71 0.81 0.85 Max. compression : 1099 kgf Drive end Non drive end Bearing type 6314 C3 6314 C3 Oil Seal Lip Seal Sealing Lubrication interval 14267 h 14267 h Lubricant amount 27 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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# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer	

#### Thermal protection

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

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

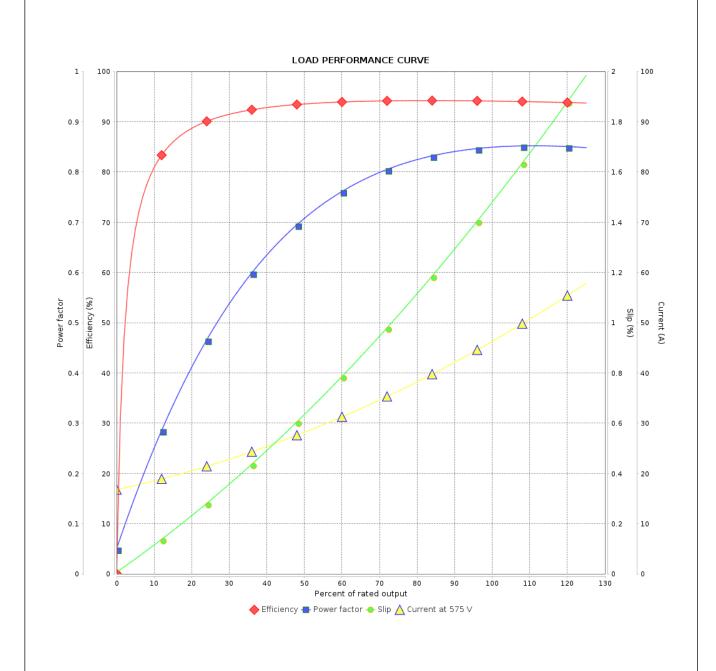


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 11508504



Performance		: 575 V 60 Hz 6P						
Rated current		: 46.5 A		Moment of inertia (J)		: 1.24 kgm²		
LRC		: 7.4		Duty cycle		: Cont.(S1)		
Rated torque		: 30.7 kgfm		Insulation class		: F		
Locked rotor torque		: 229 %		Service factor		: 1.15	: 1.15	
Breakdown torque		: 250 %		Temperature rise		: 80 K		
Rated speed		: 1182 rpm		Design		: B		
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