

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase      Product code : 13480666

Frame	: 182/4T	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 8	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	: 2.27 A	Protection degree	: IP55
L. R. Amperes	: 14.1 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code L)	Mounting	: F-1
No load current	: 1.52 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 860 rpm	Noise level <sup>2</sup>	: 50.0 dB(A)
Slip	: 4.44 %	Starting method	: Direct On Line
Rated torque	: 1.27 kgfm	Approx. weight <sup>3</sup>	: 60.9 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0220 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	77.0	78.5	78.5	Max. traction	: 38 kgf
Power Factor	0.42	0.54	0.62	Max. compression	: 99 kgf

	Drive end	Non drive end
Bearing type	: 6307 2RS	: 6206 2RS
Sealing	: Oil Seal	: Lip Seal
Lubrication interval	: -	: -
Lubricant amount	: -	: -
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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Customer :

Thermal protection

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

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# LOAD PERFORMANCE CURVE

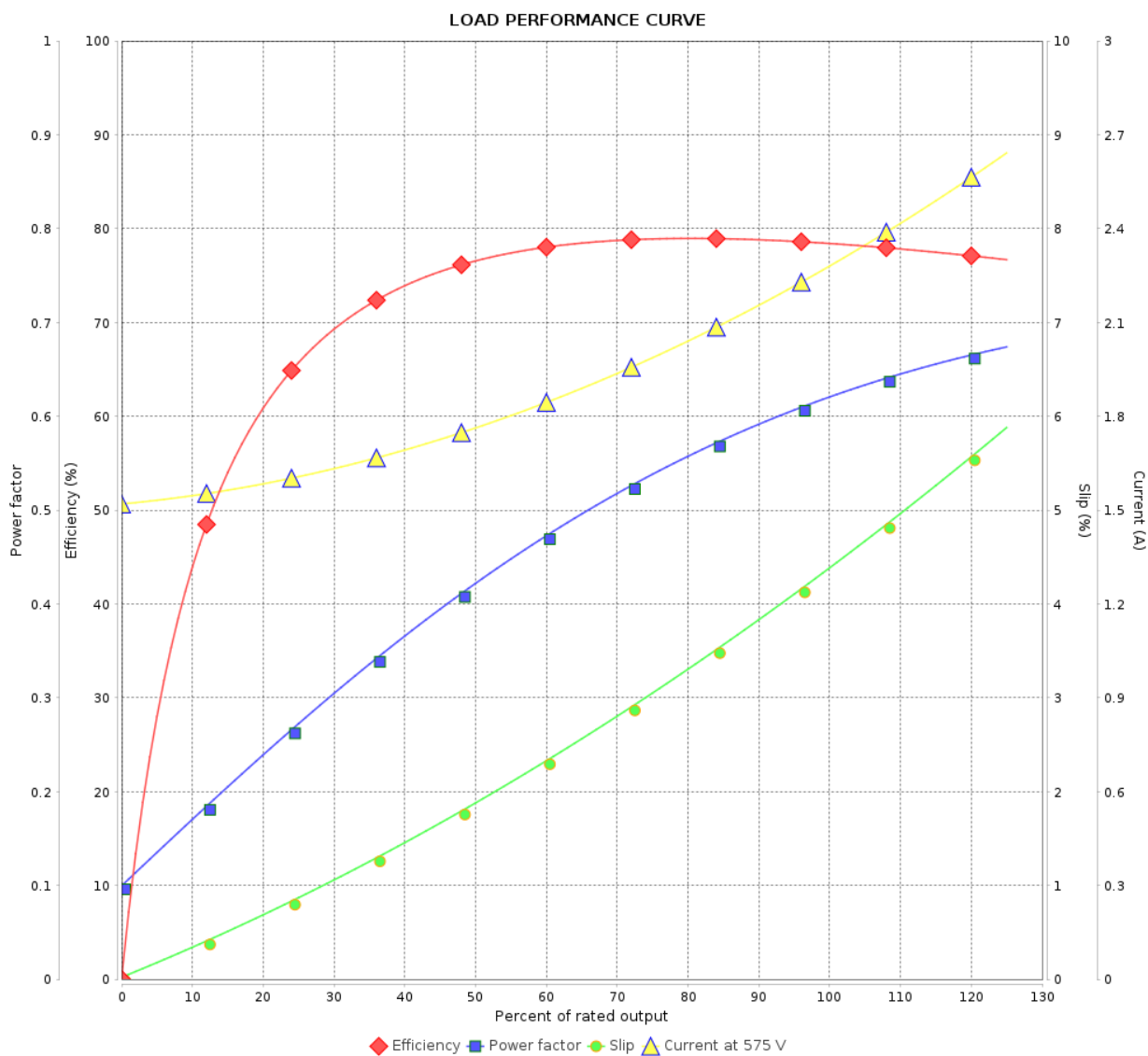
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium  
Efficiency Three-Phase

Product code : 13480666



Performance : 575 V 60 Hz 8P

Rated current : 2.27 A  
LRC : 6.2  
Rated torque : 1.27 kgfm  
Locked rotor torque : 240 %  
Breakdown torque : 260 %  
Rated speed : 860 rpm

Moment of inertia (J) : 0.0220 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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