

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14283770	
Frame	: 182/4TC	Locked rotor time	: 46s (cold) 26s (hot)		
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K		
Poles	: 2	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	: 4.88 A	Protection degree	: IP55		
L. R. Amperes	: 36.6 A	Cooling method	: IC411 - TEFC		
LRC	: 7.5x(Code J)	Mounting	: F-1		
No load current	: 1.76 A	Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 3490 rpm	Noise level <sup>2</sup>	: 69.0 dB(A)		
Slip	: 3.06 %	Starting method	: Direct On Line		
Rated torque	: 1.04 kgfm	Approx. weight <sup>3</sup>	: 60.6 kg		
Locked rotor torque	: 250 %				
Breakdown torque	: 380 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0080 kgm <sup>2</sup>				
Design	: B				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	85.5	87.5	88.5	Max. traction : 52 kgf	
Power Factor	0.70	0.81	0.86	Max. compression : 113 kgf	
		<u>Drive end</u>	<u>Non drive end</u>		
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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### 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

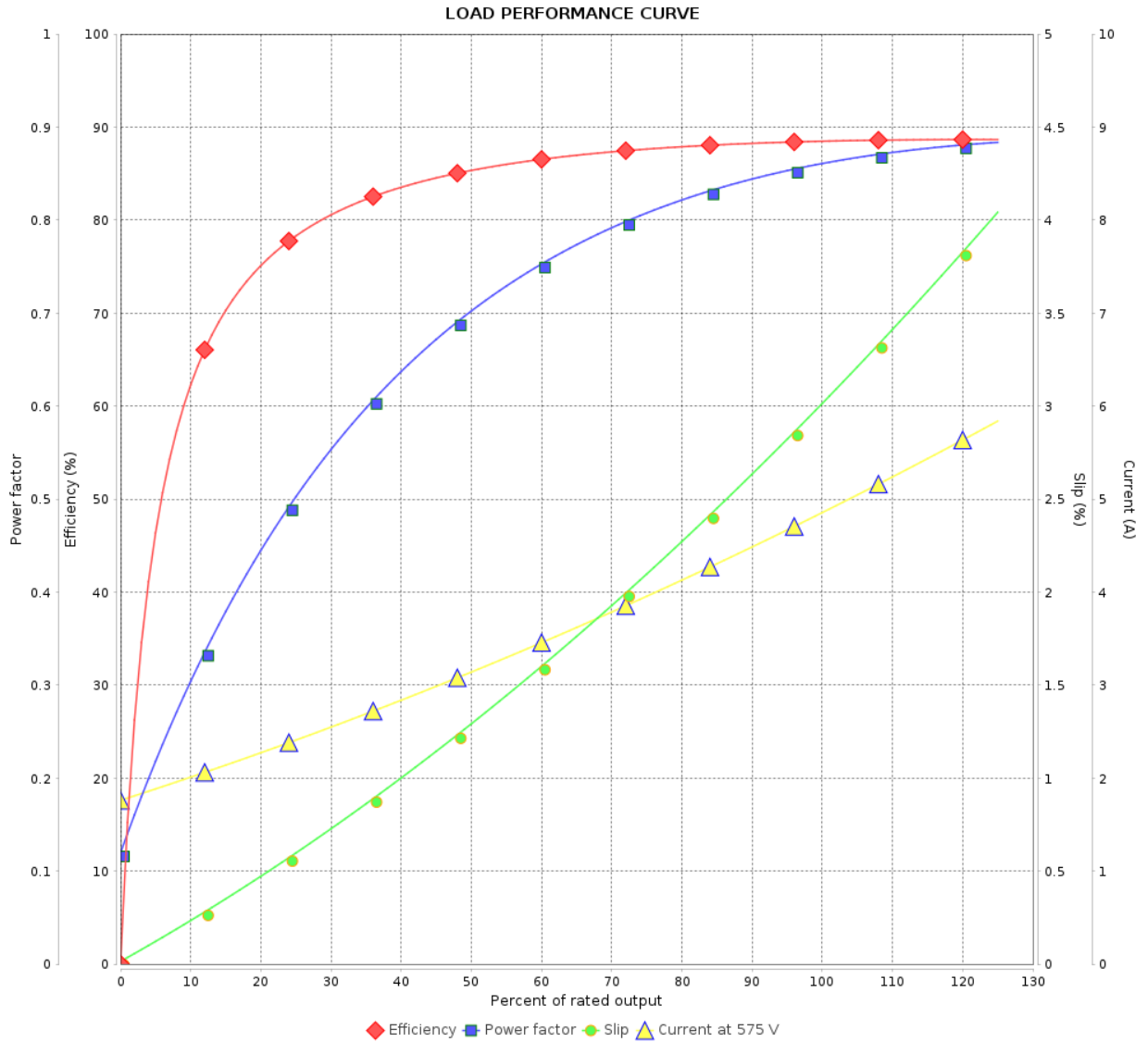
## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

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

Product code : 14283770



Performance : 575 V 60 Hz 2P

Rated current : 4.88 A  
 LRC : 7.5  
 Rated torque : 1.04 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 380 %  
 Rated speed : 3490 rpm

Moment of inertia (J) : 0.0080 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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