

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code :	14407587	
Frame	:	326T		Locked rotor time	: 45s (cold) 25s (hot)	
Output	:	30 HP (22 kW)		Temperature rise	: 80 K	
Poles	:	6		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	:	29.4 A		Protection degree	: IP55	
L. R. Amperes	:	208 A		Cooling method	: IC411 - TEFC	
LRC	:	7.1x(Code H)		Mounting	: F-1	
No load current	:	13.6 A		Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	:	1180 rpm		Noise level <sup>2</sup>	: 62.0 dB(A)	
Slip	:	1.67 %		Starting method	: Direct On Line	
Rated torque	:	18.5 kgfm		Approx. weight <sup>3</sup>	: 293 kg	
Locked rotor torque	:	240 %				
Breakdown torque	:	270 %				
Insulation class	:	F				
Service factor	:	1.15				
Moment of inertia (J)	:	0.5255 kgm <sup>2</sup>				
Design	:	B				
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	92.2	92.4	93.0	93.0	Max. traction : 480 kgf	
Power Factor	0.38	0.63	0.75	0.81	Max. compression : 774 kgf	
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6312 C3		6212 C3		
Sealing	:	Oil Seal		Lip Seal		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	21 g		13 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

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

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# LOAD PERFORMANCE CURVE

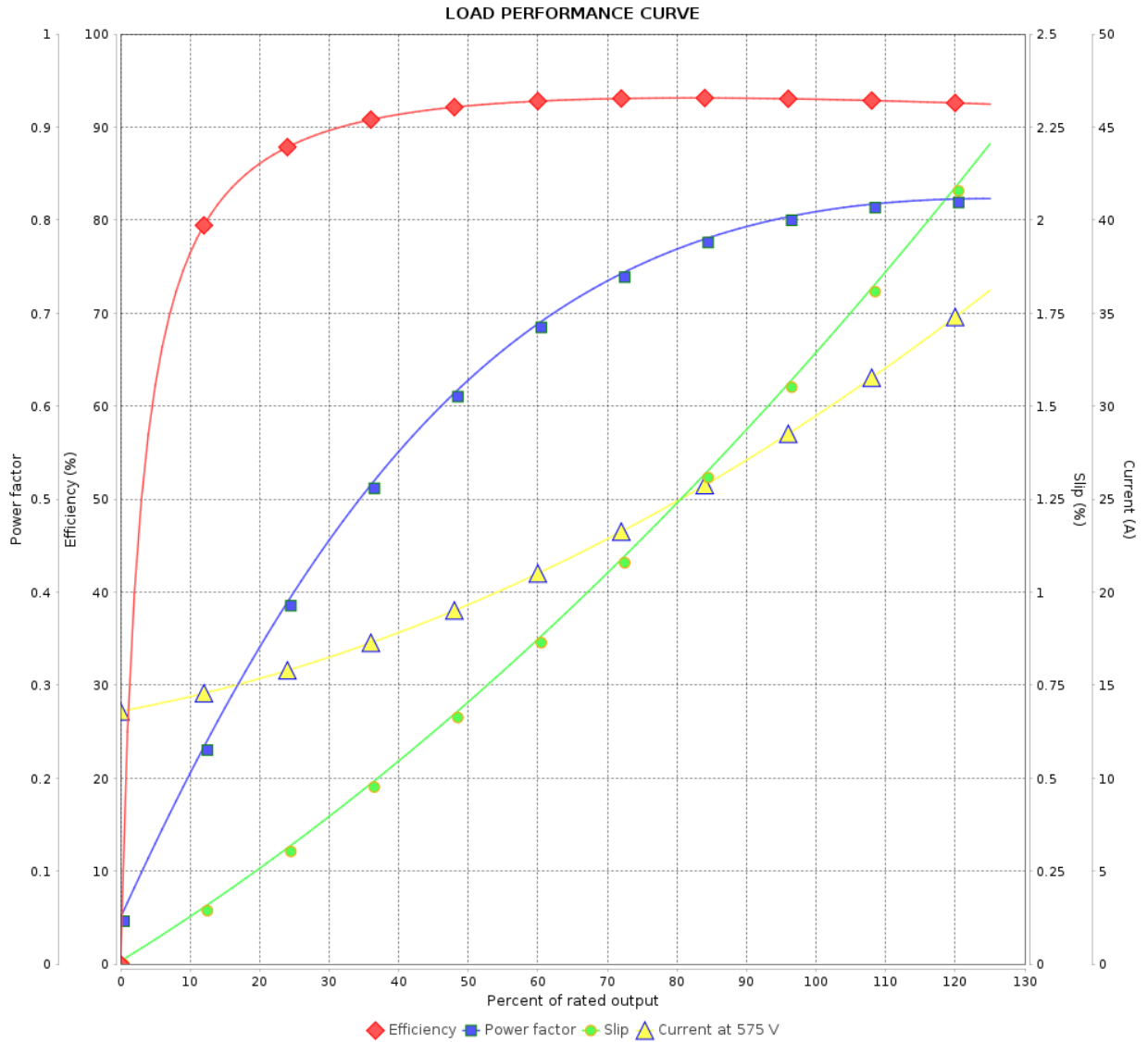
## Three Phase Induction Motor - Squirrel Cage



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

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

Product code : 14407587



Performance : 575 V 60 Hz 6P

Rated current : 29.4 A  
 LRC : 7.1  
 Rated torque : 18.5 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 270 %  
 Rated speed : 1180 rpm

Moment of inertia (J) : 0.5255 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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