

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line : W22 Cooling Tower NEMA Premium Efficiency Three-Phase			Product code : 14579246				
Frame	: 254/6T		Locked rotor time	: 54s (cold) 30s (hot)			
Output	: 20 HP (15 kW)		Temperature rise	: 80 K			
Poles	: 4		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	: 19.3 A		Protection degree	: IP55			
L. R. Amperes	: 133 A		Cooling method	: IC411 - TEFC			
LRC	: 6.9x(Code H)		Mounting	: F-1			
No load current	: 7.68 A		Rotation <sup>1</sup>	: Both (CW and CCW)			
Rated speed	: 1770 rpm		Noise level <sup>2</sup>	: 64.0 dB(A)			
Slip	: 1.67 %		Starting method	: Direct On Line			
Rated torque	: 8.20 kgfm		Approx. weight <sup>3</sup>	: 153 kg			
Locked rotor torque	: 240 %						
Breakdown torque	: 260 %						
Insulation class	: F						
Service factor	: 1.25						
Moment of inertia (J)	: 0.1305 kgm <sup>2</sup>						
Design	: B						
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	91.7	92.4	93.0	Max. traction : 259 kgf			
Power Factor	0.68	0.79	0.84	Max. compression : 412 kgf			
Losses at normative operating points (speed;torque), in percentage of rated output power							
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)	
7.5	6.4	5.8	3.6	2.5	1.6	1.1	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6309 2RS C3		6209 2RS C3			
Sealing	:	V'Ring		V'Ring			
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 : \_\_\_\_\_

### Space heater information

Voltage: 110-127/200-240 V

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# LOAD PERFORMANCE CURVE

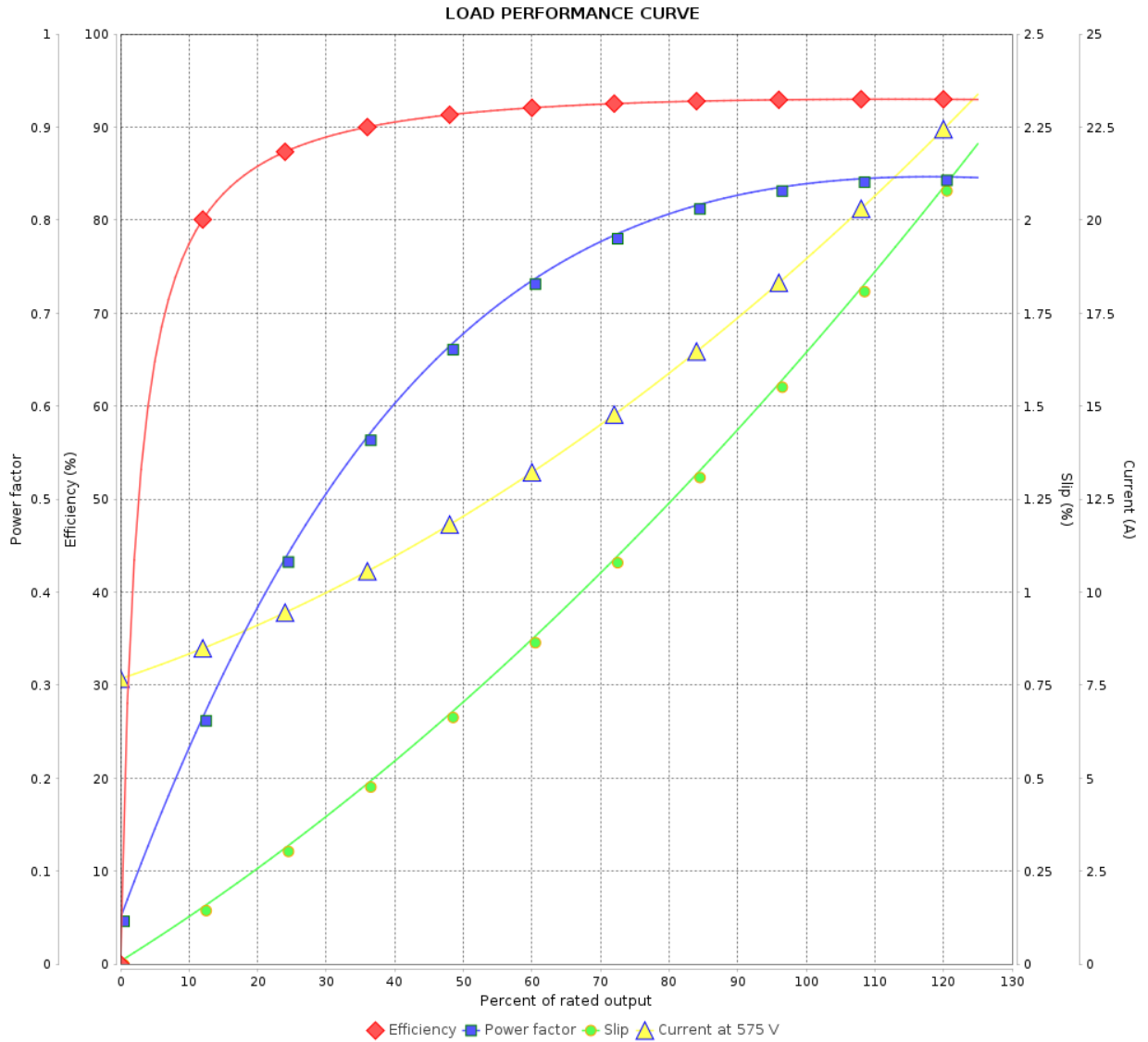
## Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 Cooling Tower NEMA Premium  
Efficiency Three-Phase

Product code : 14579246



Performance : 575 V 60 Hz 4P

Rated current : 19.3 A  
 LRC : 6.9  
 Rated torque : 8.20 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 260 %  
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.1305 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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