

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 13198274			
Frame	: 444/5TS		Locked rotor time	: 48s (cold) 27s (hot)		
Output	: 150 HP (110 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	: 136 A		Protection degree	: IP55		
L. R. Amperes	: 898 A		Cooling method	: IC411 - TEFC		
LRC	: 6.6x(Code G)		Mounting	: F-1		
No load current	: 46.4 A		Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 1784 rpm		Noise level <sup>2</sup>	: 73.0 dB(A)		
Slip	: 0.89 %		Starting method	: Direct On Line		
Rated torque	: 61.0 kgfm		Approx. weight <sup>3</sup>	: 821 kg		
Locked rotor torque	: 200 %					
Breakdown torque	: 250 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 2.81 kgm <sup>2</sup>					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.4	95.8	95.8	Max. traction : 924 kgf		
Power Factor	0.74	0.82	0.85	Max. compression : 1745 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)
4.5	3.5	3.1	2.4	1.5	1.1	0.6
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6314 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	12000 h		12000 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.		
Rev.	Changes Summary			Performed	Checked	Date
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# LOAD PERFORMANCE CURVE

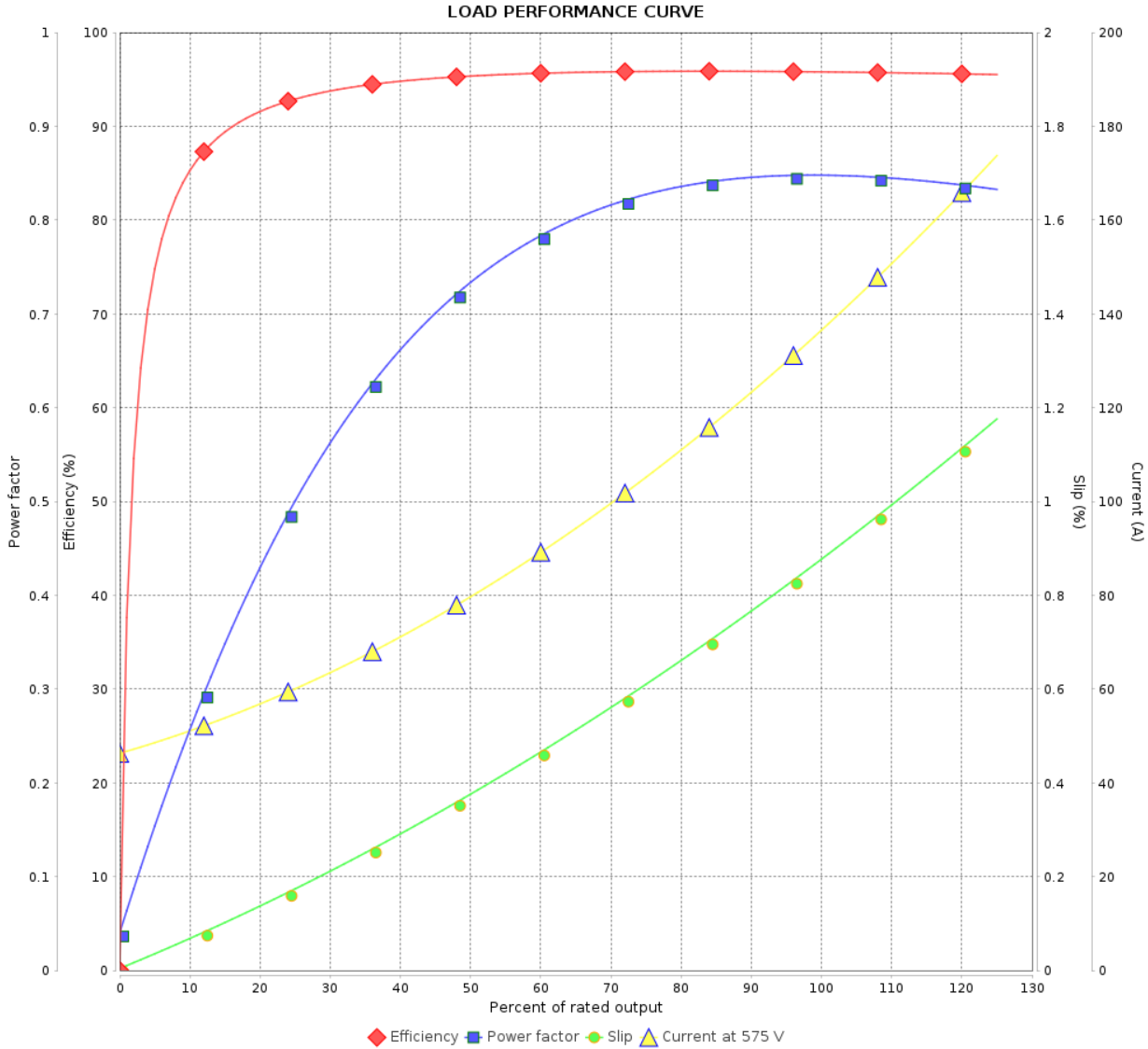
Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13198274



Performance : 575 V 60 Hz 4P

Rated current : 136 A  
 LRC : 6.6  
 Rated torque : 61.0 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 250 %  
 Rated speed : 1784 rpm

Moment of inertia (J) : 2.81 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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