

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code :		12004336	
Frame	:	444/5TC	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>	:	0.0 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	:	1334 kgf
Power Factor	0.74	0.82	0.85	Max. compression	:	1334 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	:	NU-319 C3		6316 C3		
Sealing	:	Viton Oil Seal		Viton Oil Seal		
Lubrication interval	:	5000 h		10000 h		
Lubricant amount	:	45 g		34 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

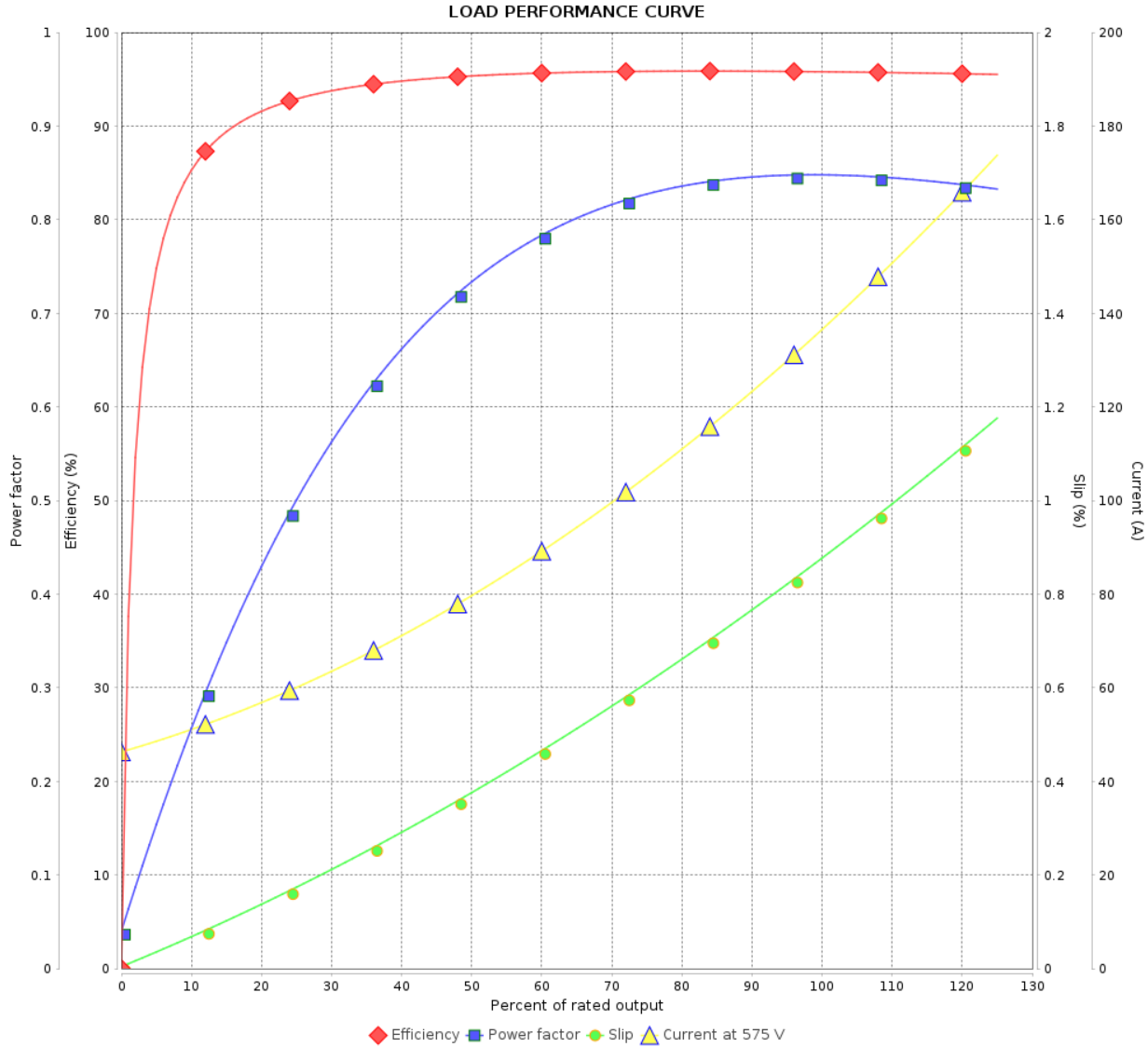
Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12004336



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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Date	05/02/2024			