

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 13276768			
Frame	: L447/9T		Locked rotor time	: 23s (cold) 13s (hot)		
Output	: 400 HP (300 kW)		Temperature rise	: 105 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	: 382 A		Protection degree	: IP55		
L. R. Amperes	: 2633 A		Cooling method	: IC411 - TEFC		
LRC	: 6.9x(Code H)		Mounting	: F-1		
No load current	: 160 A		Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 1190 rpm		Noise level <sup>2</sup>	: 71.0 dB(A)		
Slip	: 0.83 %		Starting method	: Direct On Line		
Rated torque	: 244 kgfm		Approx. weight <sup>3</sup>	: 1637 kg		
Locked rotor torque	: 240 %					
Breakdown torque	: 250 %					
Insulation class	: F					
Service factor	: 1.00					
Moment of inertia (J)	: 11.7 kgm <sup>2</sup>					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.4	95.8	95.8	Max. traction : 4516 kgf		
Power Factor	0.68	0.78	0.82	Max. compression : 6154 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)
5.1	3.8	3.4	2.9	1.9	1.4	0.8
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	NU-322 C3		6319 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	7000 h		13000 h		
Lubricant amount	:	60 g		45 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

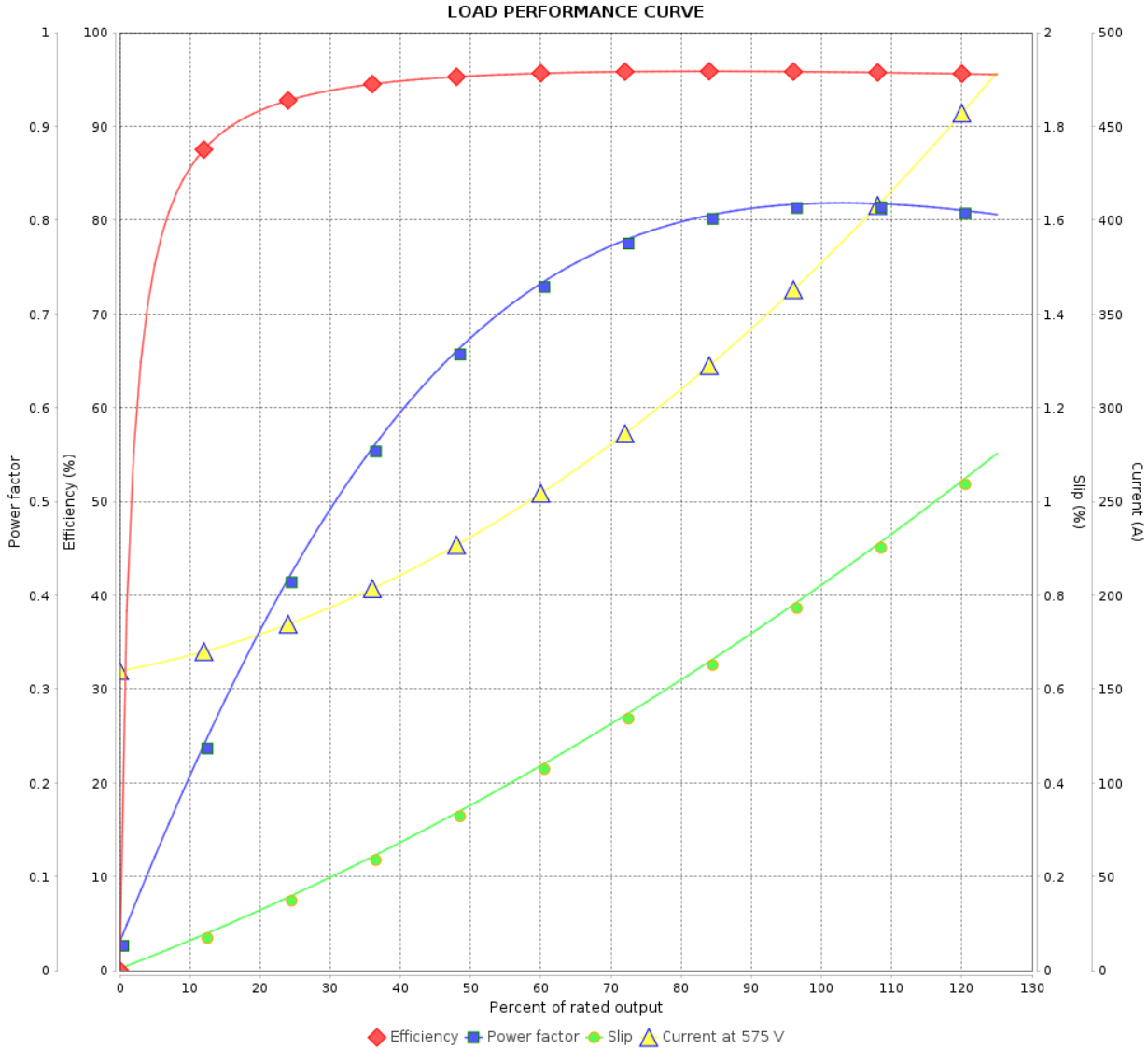
Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13276768



Performance : 575 V 60 Hz 6P

Rated current : 382 A  
 LRC : 6.9  
 Rated torque : 244 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 250 %  
 Rated speed : 1190 rpm

Moment of inertia (J) : 11.7 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K

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Date	13/01/2024			