

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 12888938			
Frame	: L447/9T			Locked rotor time	: 37s (cold) 21s (hot)	
Output	: 400 HP (300 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	: 356 A			Protection degree	: IP55	
L. R. Amperes	: 2314 A			Cooling method	: IC411 - TEFC	
LRC	: 6.5x(Code G)			Mounting	: F-1	
No load current	: 100 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1785 rpm			Noise level ²	: 79.0 dB(A)	
Slip	: 0.83 %			Starting method	: Direct On Line	
Rated torque	: 163 kgfm			Approx. weight ³	: 1467 kg	
Locked rotor torque	: 250 %					
Breakdown torque	: 260 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 5.75 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.4	95.8	96.2	Max. traction : 2966 kgf		
Power Factor	0.80	0.85	0.88	Max. compression : 4432 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	3.3	2.7	2.5	1.5	1.1	0.6
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	NU-322 C3		6319 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	4000 h		8000 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.		
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LOAD PERFORMANCE CURVE

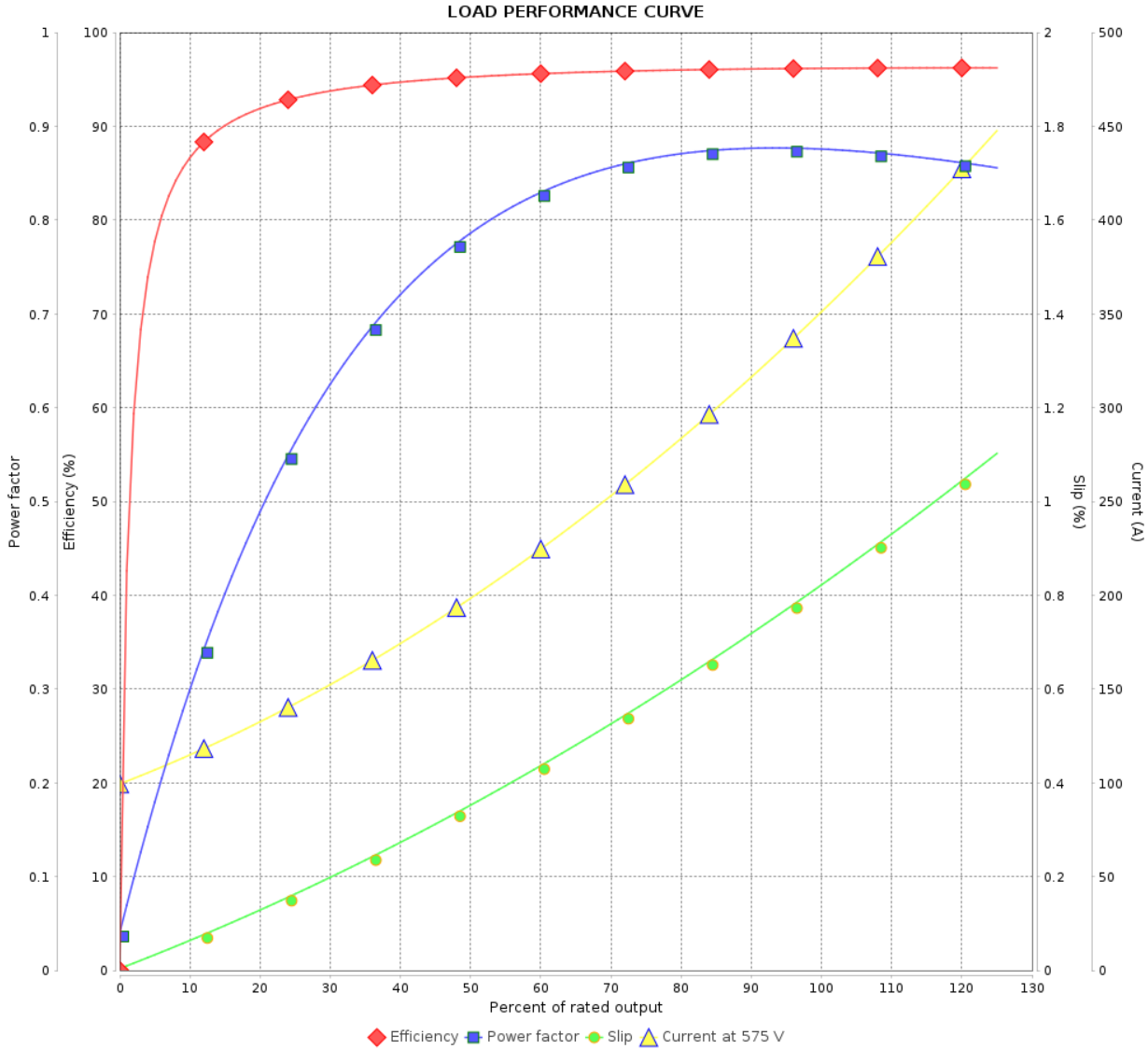
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Product code : 12888938



Performance : 575 V 60 Hz 4P

Rated current	: 356 A	Moment of inertia (J)	: 5.75 kgm ²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 163 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1785 rpm	Design	: B

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