

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 11164579			
Frame	: 444/5T		Locked rotor time	: 48s (cold) 27s (hot)		
Output	: 125 HP		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	: 111 A		Protection degree	: IP55		
L. R. Amperes	: 723 A		Cooling method	: IC411 - TEFC		
LRC	: 6.5x(Code G)		Mounting	: F-1		
No load current	: 32.0 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1785 rpm		Noise level ²	: 73.0 dB(A)		
Slip	: 0.83 %		Starting method	: Direct On Line		
Rated torque	: 50.8 kgfm		Approx. weight ³	: 706 kg		
Locked rotor torque	: 200 %					
Breakdown torque	: 229 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 2.41 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.0	95.4	95.4	Max. traction : 669 kgf		
Power Factor	0.74	0.82	0.85	Max. compression : 1375 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	3.4	3.1	2.4	1.4	0.9	0.5
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	NU-319 C3		6316 C3		
Sealing	:	WSeal		WSeal		
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.		
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LOAD PERFORMANCE CURVE

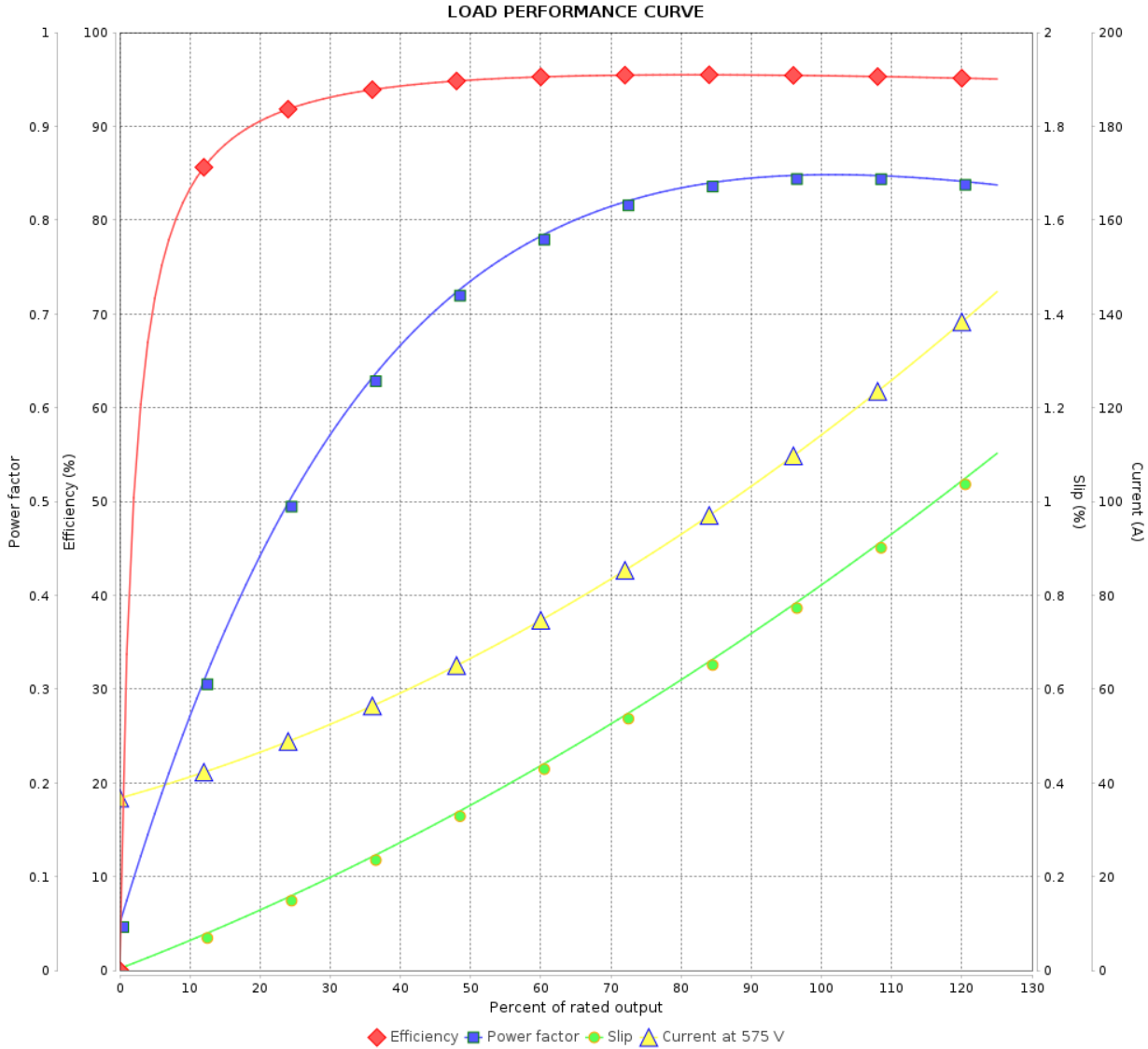
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Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11164579



Performance : 575 V 60 Hz 4P

Rated current : 111 A	Moment of inertia (J) : 2.41 kgm ²
LRC : 6.5	Duty cycle : Cont.(S1)
Rated torque : 50.8 kgfm	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.15
Breakdown torque : 229 %	Temperature rise : 80 K
Rated speed : 1785 rpm	Design : B

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