

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 11993098				
Frame	: 504/5T		Locked rotor time	: 41s (cold) 23s (hot)			
Output	: 125 HP		Temperature rise	: 80 K			
Poles	: 8		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	: 119 A		Protection degree	: IP55			
L. R. Amperes	: 703 A		Cooling method	: IC411 - TEFC			
LRC	: 5.9x(Code G)		Mounting	: F-1			
No load current	: 48.0 A		Rotation ¹	: Both (CW and CCW)			
Rated speed	: 890 rpm		Noise level ²	: 66.0 dB(A)			
Slip	: 1.11 %		Starting method	: Direct On Line			
Rated torque	: 102 kgfm		Approx. weight ³	: 1.0 kg			
Locked rotor torque	: 180 %						
Breakdown torque	: 200 %						
Insulation class	: F						
Service factor	: 1.15						
Moment of inertia (J)	: 4.37 kgm ²						
Design	: B						
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	94.5	94.5	94.5	Max. traction : 1604 kgf			
Power Factor	0.66	0.76	0.80	Max. compression : 1605 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)	
5.5	4.3	3.8	2.7	1.8	1.2	0.8	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	NU-319 C3		6316 C3			
Sealing	:	WSeal		WSeal			
Lubrication interval	:	15000 h		20000 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

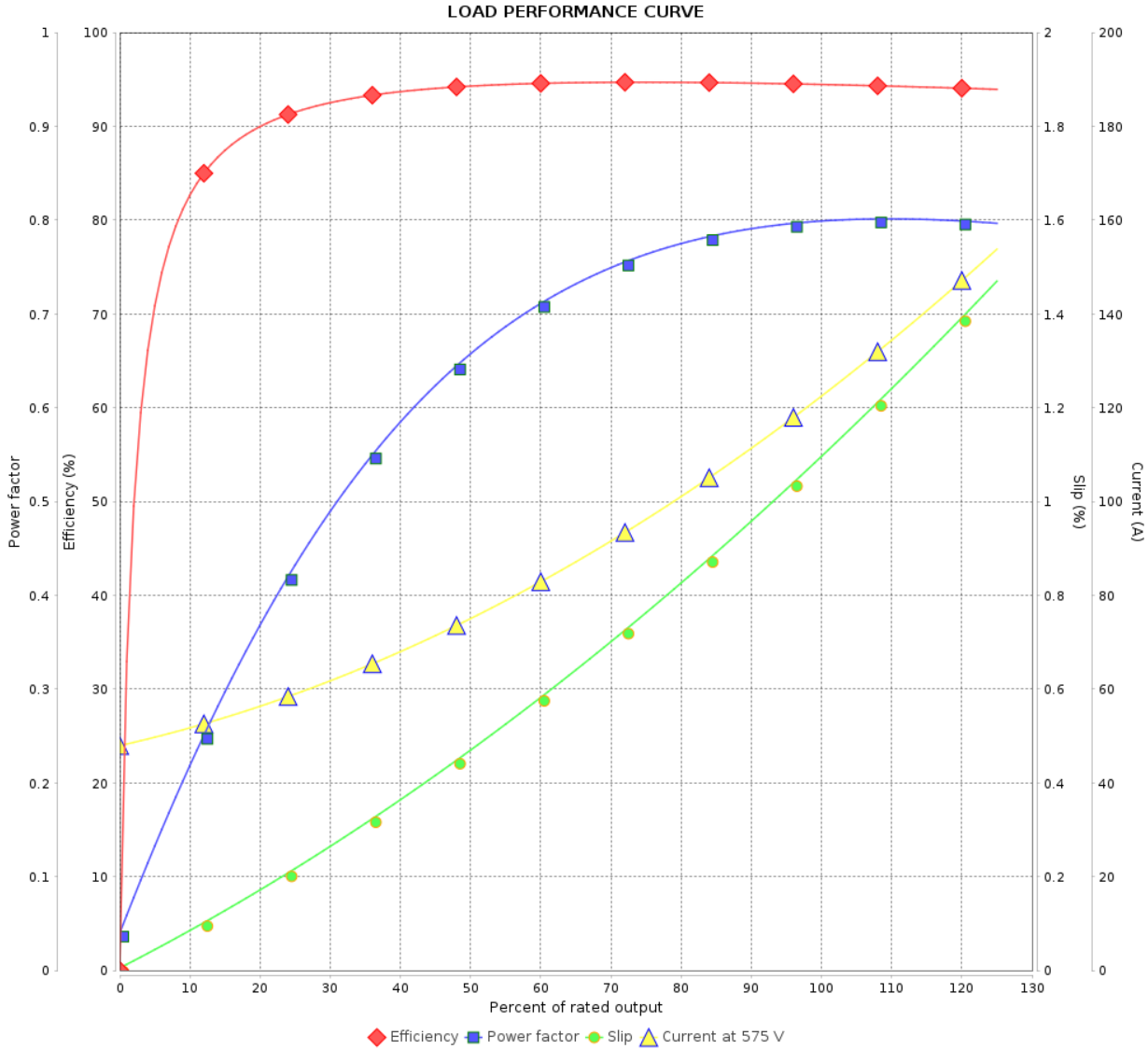
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Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11993098



Performance : 575 V 60 Hz 8P

Rated current : 119 A
 LRC : 5.9
 Rated torque : 102 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 200 %
 Rated speed : 890 rpm

Moment of inertia (J) : 4.37 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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