

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12789105		
Frame	: 254/6T	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 99.3 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0514 kgm ²		
Design	: B				
Output [HP]	20				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	575				
Rated current [A]	18.2				
L. R. Amperes [A]	120				
LRC [A]	6.6x(Code G)				
No load current [A]	5.50				
Rated speed [RPM]	3515				
Slip [%]	2.36				
Rated torque [kgfm]	4.13				
Locked rotor torque [%]	200				
Breakdown torque [%]	290				
Service factor	1.15				
Temperature rise	80 K				
Locked rotor time	21s (cold) 12s (hot)				
Noise level ²	75.0 dB(A)				
Efficiency (%)	25%	89.7			
	50%	90.0			
	75%	91.0			
	100%	91.0			
Power Factor	25%	0.55			
	50%	0.81			
	75%	0.88			
	100%	0.91			
Bearing type	: <u>Drive end</u> 6309 Z C3	<u>Non drive end</u> 6208 Z C3	Foundation loads		
Sealing	: V'Ring	Without Bearing Seal	Max. traction	: 138 kgf	
Lubrication interval	: 15797 h	20000 h	Max. compression	: 238 kgf	
Lubricant amount	: 13 g	8 g			
Lubricant type	: Mobil Polyrex EM				
Notes					
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>			<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>		
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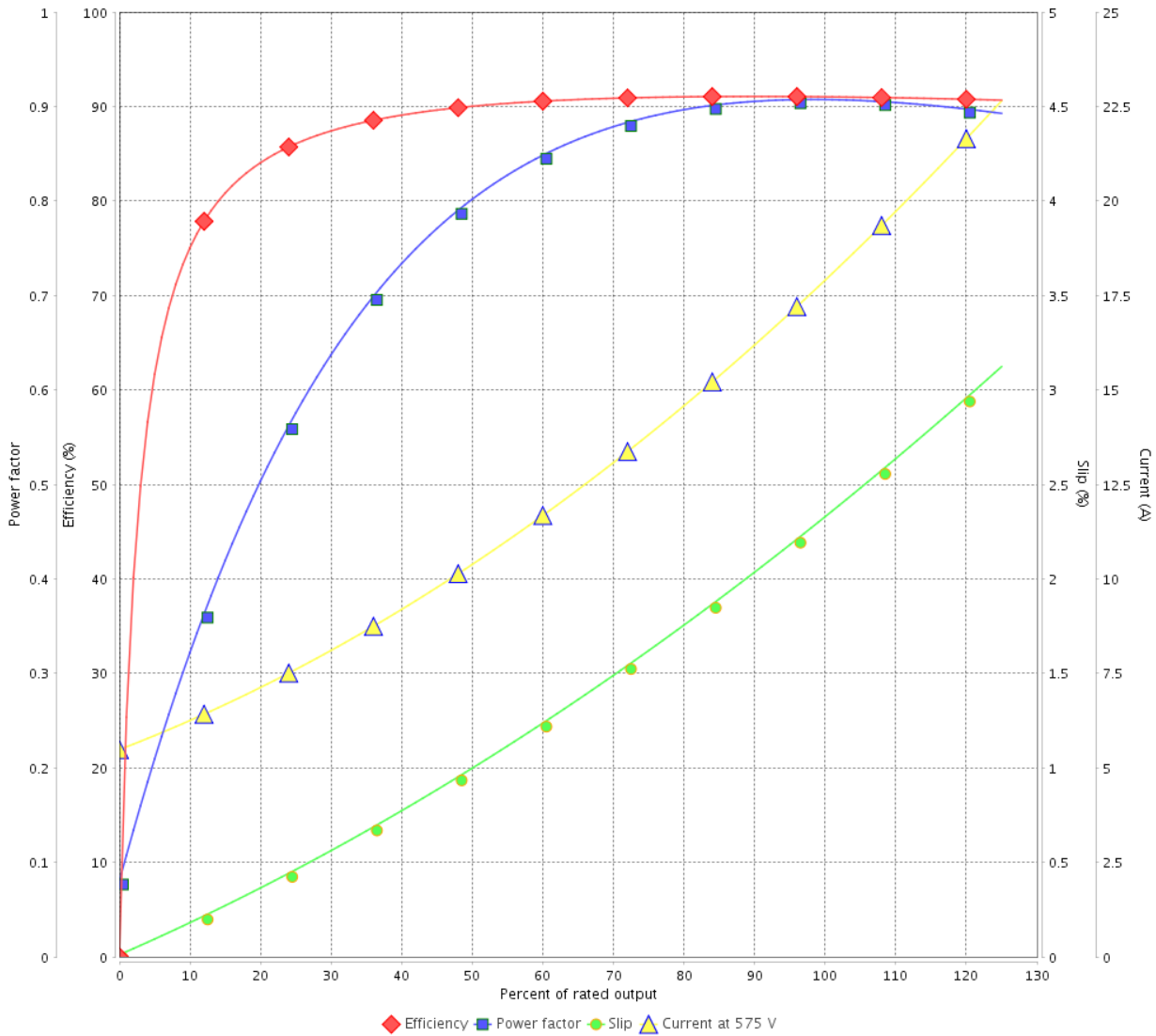
Three Phase Induction Motor - Squirrel Cage



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Performance : 575 V 60 Hz 2P

Rated current	: 18.2 A	Moment of inertia (J)	: 0.0514 kgm ²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 4.13 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

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