

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12845574		
Frame	: 254/6TC	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	: 106 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	: 135 kgf	
Lubrication interval	: 15797 h	20000 h	Max. compression	: 241 kgf	
Lubricant amount	: 13 g	8 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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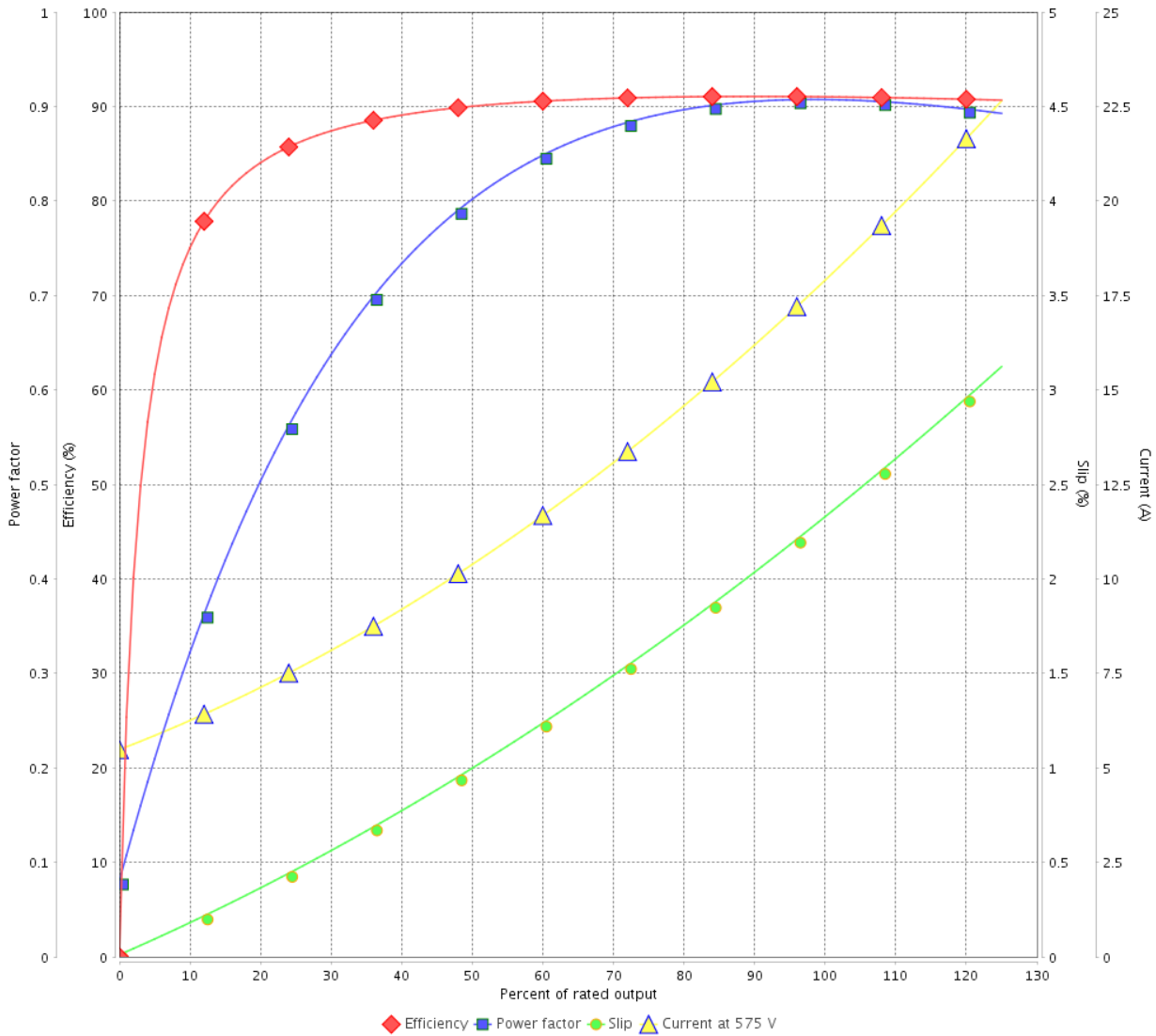
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Performance : 575 V 60 Hz 2P

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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