

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:			
Product line	: NEMA Premium Efficiency Three-Phase	Product code : 12706983		
Frame	: 254/6TC	Cooling method : IC01 - ODP		
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 : 81.0 kg		
Design	: B	Moment of inertia (J) : 0.0331 kgm ²		
Output [HP]		20		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		575		
Rated current [A]		19.0		
L. R. Amperes [A]		114		
LRC [A]		6.0x(Code G)		
No load current [A]		6.80		
Rated speed [RPM]		3525		
Slip [%]		2.08		
Rated torque [kgfm]		4.12		
Locked rotor torque [%]		180		
Breakdown torque [%]		240		
Service factor		1.15		
Temperature rise		80 K		
Locked rotor time		23s (cold) 13s (hot)		
Noise level ²		70.0 dB(A)		
Efficiency (%)	25%			
	50%	90.2		
	75%	91.0		
	100%	91.0		
Power Factor	25%			
	50%	0.76		
	75%	0.83		
	100%	0.87		
Bearing type	: <u>Drive end</u> 6309 Z C3 <u>Non drive end</u> 6208 Z C3	Foundation loads		
Sealing	: Without Without	Max. traction : 115 kgf		
	: Bearing Seal Bearing Seal	Max. compression : 196 kgf		
Lubrication interval	: 20000 h 20000 h			
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>		
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/05/2022		1 / 2	

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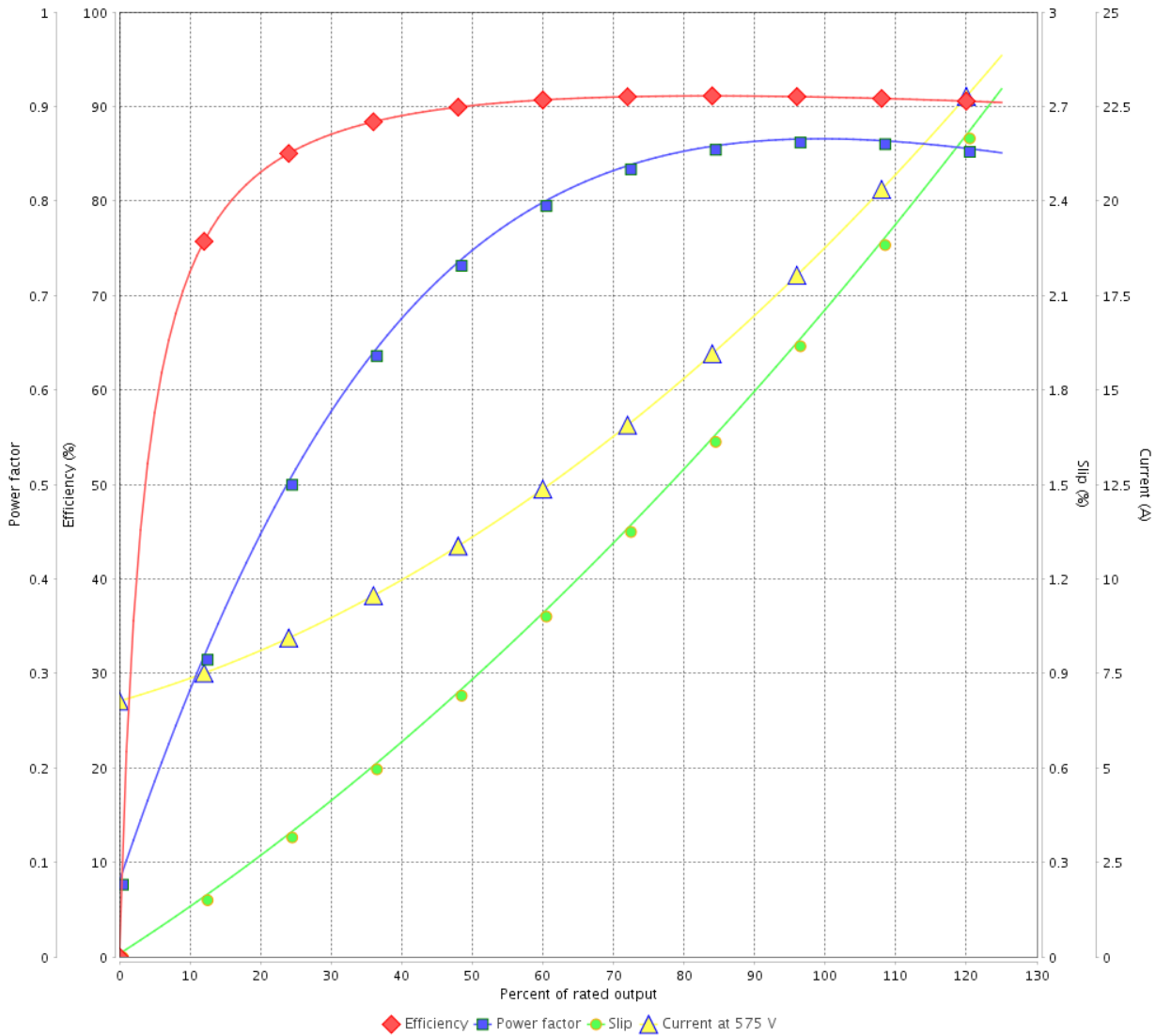
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LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 19.0 A	Moment of inertia (J)	: 0.0331 kgm ²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 4.12 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3525 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	13/05/2022			