

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer	:			
Product line	: NEMA Premium Efficiency Three-Phase	Product code : 12845475		
Frame	: 213/5TC	Cooling method : IC411 - TEFC		
Insulation class	: F	Mounting : F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup> : Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method : Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup> : 78.5 kg		
Protection degree	: IP55	Moment of inertia (J) : 0.0303 kgm <sup>2</sup>		
Design	: B			
Output [HP]		10		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		575		
Rated current [A]		9.20		
L. R. Amperes [A]		69.0		
LRC [A]		7.5x(Code H)		
No load current [A]		3.01		
Rated speed [RPM]		3530		
Slip [%]		1.94		
Rated torque [kgfm]		2.06		
Locked rotor torque [%]		260		
Breakdown torque [%]		300		
Service factor		1.15		
Temperature rise		80 K		
Locked rotor time		21s (cold) 12s (hot)		
Noise level <sup>2</sup>		70.0 dB(A)		
Efficiency (%)	25%	89.3		
	50%	89.5		
	75%	90.2		
	100%	90.2		
Power Factor	25%	0.53		
	50%	0.80		
	75%	0.88		
	100%	0.91		
Bearing type	: <u>Drive end</u> 6208 ZZ <u>Non drive end</u> 6206 ZZ	Foundation loads		
Sealing	: V'Ring    Without Bearing Seal	Max. traction : 75 kgf		
Lubrication interval	: -    -	Max. compression : 153 kgf		
Lubricant amount	: -    -			
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
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# LOAD PERFORMANCE CURVE

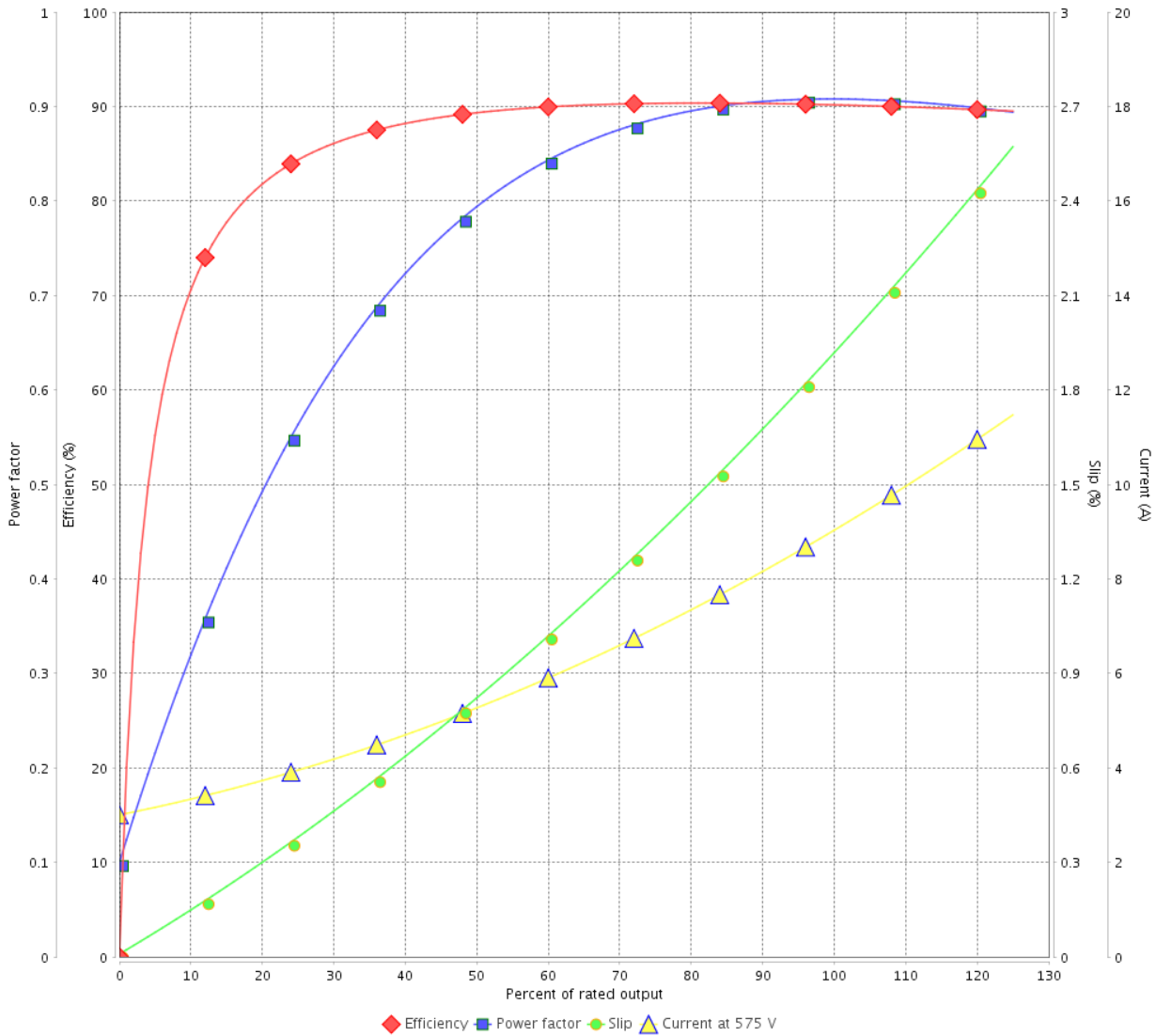
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12845475

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 9.20 A	Moment of inertia (J)	: 0.0303 kgm <sup>2</sup>
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 2.06 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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