

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: NEMA Premium Efficiency Three-Phase	Product code : 13180744	
Frame : 254/6T Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : B		Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 109 kg Moment of inertia (J) : 0.1113 kgm ²		
Output [HP]		20		
Poles		4		
Frequency [Hz]		60		
Rated voltage [V]		575		
Rated current [A]		19.8		
L. R. Amperes [A]		132		
LRC [A]		6.7x(Code H)		
No load current [A]		8.89		
Rated speed [RPM]		1765		
Slip [%]		1.94		
Rated torque [kgfm]		8.22		
Locked rotor torque [%]		270		
Breakdown torque [%]		300		
Service factor		1.15		
Temperature rise		80 K		
Locked rotor time		28s (cold) 16s (hot)		
Noise level ²		68.0 dB(A)		
Efficiency (%)	25%	91.0		
	50%	91.7		
	75%	92.4		
	100%	93.0		
Power Factor	25%	0.40		
	50%	0.66		
	75%	0.77		
	100%	0.82		
Bearing type : <u>Drive end</u> 6309 Z C3 <u>Non drive end</u> 6208 Z C3 Sealing : V'Ring Without Bearing Seal Lubrication interval : 20000 h 20000 h Lubricant amount : 13 g 8 g Lubricant type : Mobil Polyrex EM		Foundation loads Max. traction : 333 kgf Max. compression : 443 kgf		
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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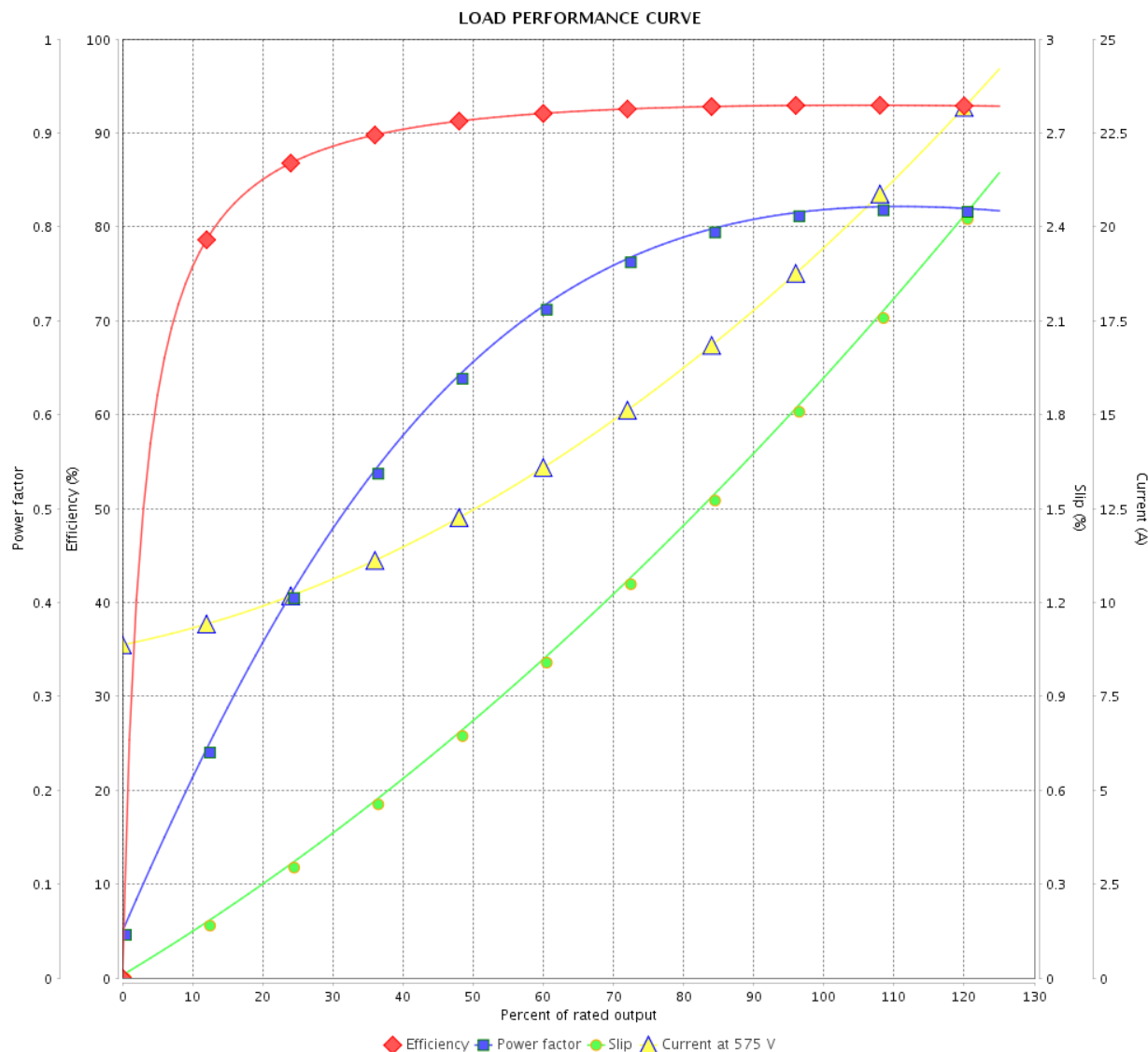
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 13180744



Performance : 575 V 60 Hz 4P

Rated current	: 19.8 A	Moment of inertia (J)	: 0.1113 kgm ²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 8.22 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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