

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code : 14974846		
Frame	: 444/5TS		Locked rotor time	: 52s (cold) 29s (hot)		
Output	: 125 HP		Temperature rise	: 80 K		
Poles	: 2		Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C		
Rated voltage	: 575 V		Altitude	: 1000 m.a.s.l.		
Rated current	: 107 A		Protection degree	: IP55		
L. R. Amperes	: 706 A		Cooling method	: IC411 - TEFC		
LRC	: 6.6x(Code G)		Mounting	: F-1		
No load current	: 27.2 A		Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 3570 rpm		Noise level <sup>2</sup>	: 81.0 dB(A)		
Slip	: 0.83 %		Starting method	: Direct On Line		
Rated torque	: 25.4 kgfm		Approx. weight <sup>3</sup>	: 725 kg		
Locked rotor torque	: 200 %					
Breakdown torque	: 250 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 1.41 kgm <sup>2</sup>					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	93.6	94.5	95.0	Max. traction : 193 kgf	
Power Factor	0.00	0.82	0.87	0.89	Max. compression : 918 kgf	
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6314 C3		6314 C3		
Sealing	:	Inpro/Seal		Inpro/Seal		
Lubrication interval	:	4000 h		4000 h		
Lubricant amount	:	27 g		27 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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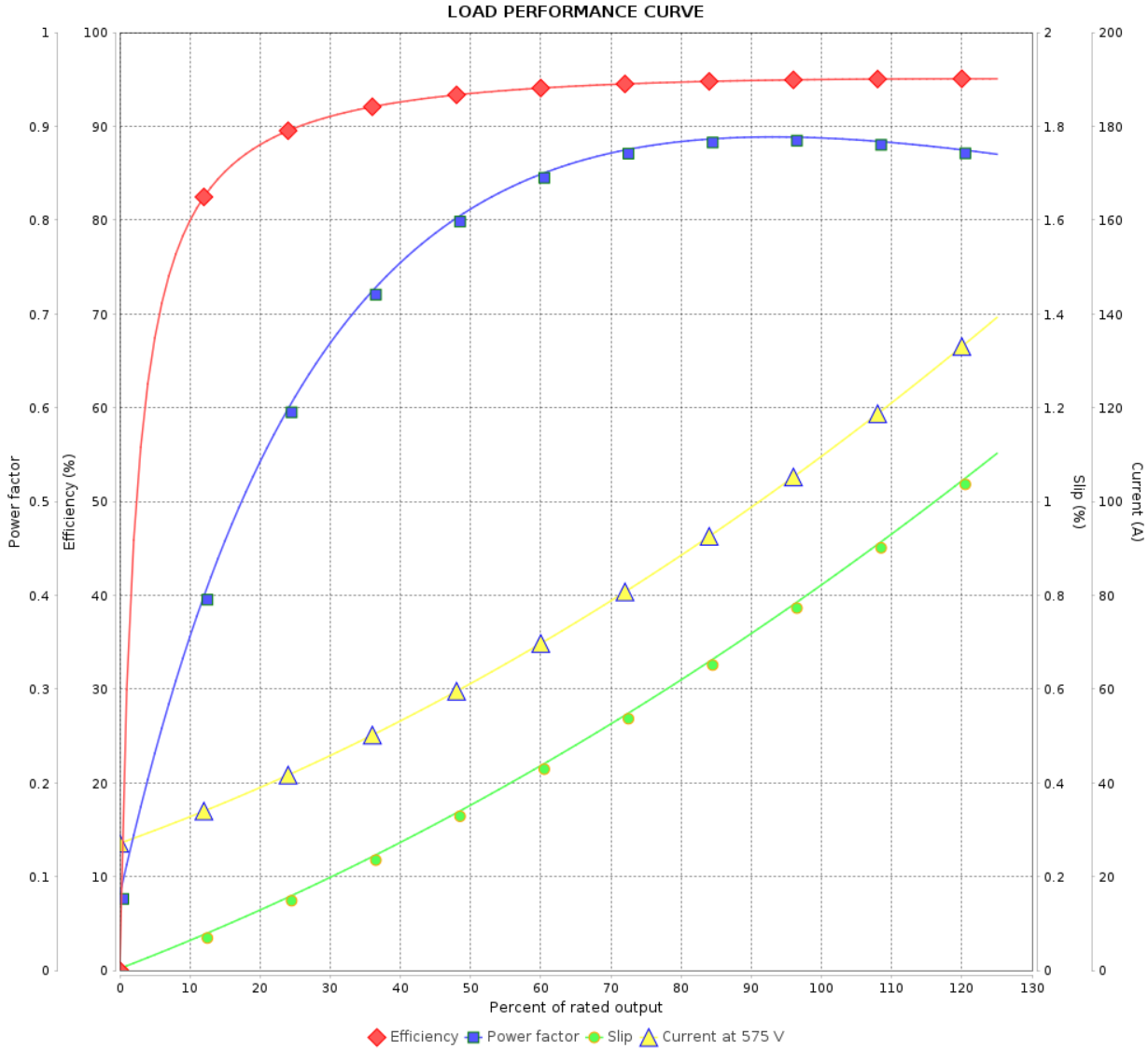
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 14974846



Performance : 575 V 60 Hz 2P

Rated current	: 107 A	Moment of inertia (J)	: 1.41 kgm <sup>2</sup>
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 25.4 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3570 rpm	Design	: B

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