

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase	Product code :	11940469			
Frame	: 254T	Locked rotor time	: 77s (cold) 43s (hot)			
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K			
Poles	: 8	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	: 6.15 A	Protection degree	: IP55			
L. R. Amperes	: 32.6 A	Cooling method	: IC411 - TEFC			
LRC	: 5.3x(Code H)	Mounting	: F-1			
No load current	: 4.32 A	Rotation <sup>1</sup>	: Both (CW and CCW)			
Rated speed	: 883 rpm	Noise level <sup>2</sup>	: 54.0 dB(A)			
Slip	: 1.89 %	Starting method	: Direct On Line			
Rated torque	: 4.11 kgfm	Approx. weight <sup>3</sup>	: 115 kg			
Locked rotor torque	: 250 %					
Breakdown torque	: 280 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.1436 kgm <sup>2</sup>					
Design	: B					
Output	50%	75%	100%			
Efficiency (%)	84.7	87.0	87.5			
Power Factor	0.48	0.61	0.69			
Foundation loads		Max. traction : 123 kgf				
		Max. compression : 238 kgf				
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
13.7	11.9	12.0	7.8	5.9	4.6	3.6
		<u>Drive end</u>			<u>Non drive end</u>	
Bearing type	:	6309 C3			6209 C3	
Sealing	:	Taconite Labyrinth			Taconite Labyrinth	
Lubrication interval	:	20000 h			20000 h	
Lubricant amount	:	13 g			9 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.		
Rev.	Changes Summary			Performed	Checked	Date
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# LOAD PERFORMANCE CURVE

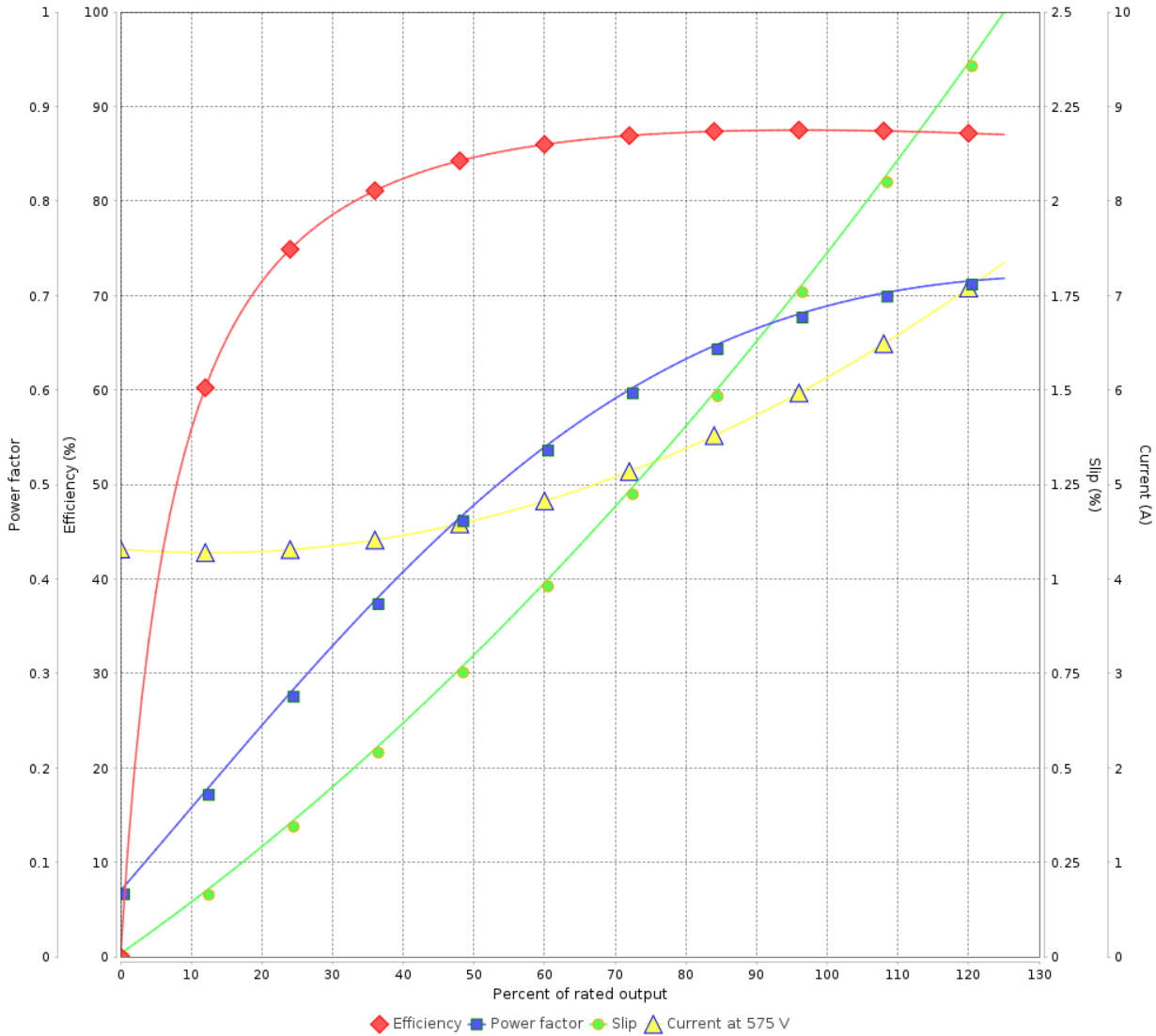
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 11940469

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 8P

Rated current	: 6.15 A	Moment of inertia (J)	: 0.1436 kgm <sup>2</sup>
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 4.11 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 883 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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