

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase					
Product code	: 11939668					
Frame : 182/4TC Output : 5 HP (3.7 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 575 V Rated current : 4.72 A L. R. Amperes : 35.9 A LRC : 7.6x(Code J) No load current : 1.60 A Rated speed : 3485 rpm Slip : 3.19 % Rated torque : 1.04 kgfm Locked rotor torque : 229 % Breakdown torque : 350 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.0094 kgm ² Design : B	Locked rotor time : 45s (cold) 25s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 66.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 51.1 kg					
Output	50% 75% 100%					
Efficiency (%)	86.5 88.5 88.5					
Power Factor	0.76 0.85 0.89					
Foundation loads						
Max. traction : 50 kgf						
Max. compression : 102 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)
12.4	9.9	8.9	6.2	3.7	2.3	1.4
		<u>Drive end</u>			<u>Non drive end</u>	
Bearing type	:	6207 C3			6206 C3	
Sealing	:	Taconite Labyrinth			Taconite Labyrinth	
Lubrication interval	:	20000 h			20000 h	
Lubricant amount	:	7 g			5 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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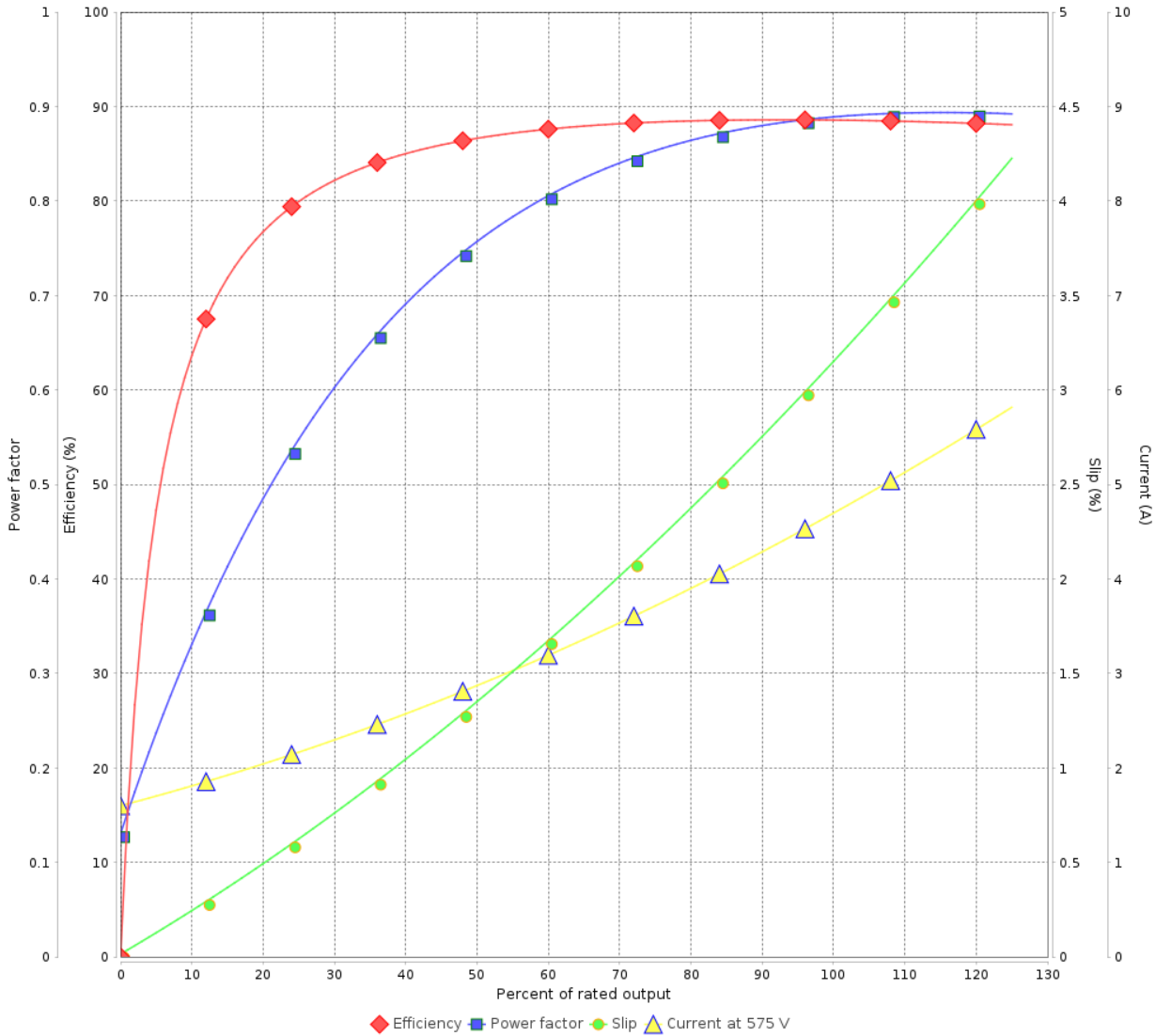
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Performance : 575 V 60 Hz 2P

Rated current	: 4.72 A	Moment of inertia (J)	: 0.0094 kgm ²
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 1.04 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3485 rpm	Design	: B

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