

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase					
Product code :	11939472					
Frame : 213/5T Output : 3 HP (2.2 kW) Poles : 8 Frequency : 60 Hz Rated voltage : 575 V Rated current : 3.69 A L. R. Amperes : 25.1 A LRC : 6.8x(Code K) No load current : 2.40 A Rated speed : 870 rpm Slip : 3.33 % Rated torque : 2.50 kgfm Locked rotor torque : 220 % Breakdown torque : 300 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.0888 kgm <sup>2</sup> Design : B	Locked rotor time : 79s (cold) 44s (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 <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 52.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 85.6 kg					
Output	50%      75%      100%					
Efficiency (%)	84.0      85.5      85.5					
Power Factor	0.49      0.62      0.70					
Foundation loads						
Max. traction : 96 kgf						
Max. compression : 181 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)
19.1	18.2	17.9	9.5	7.8	5.8	4.5
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6308 C3		6207 C3		
Sealing	:	Taconite Labyrinth		Taconite Labyrinth		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	11 g		7 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

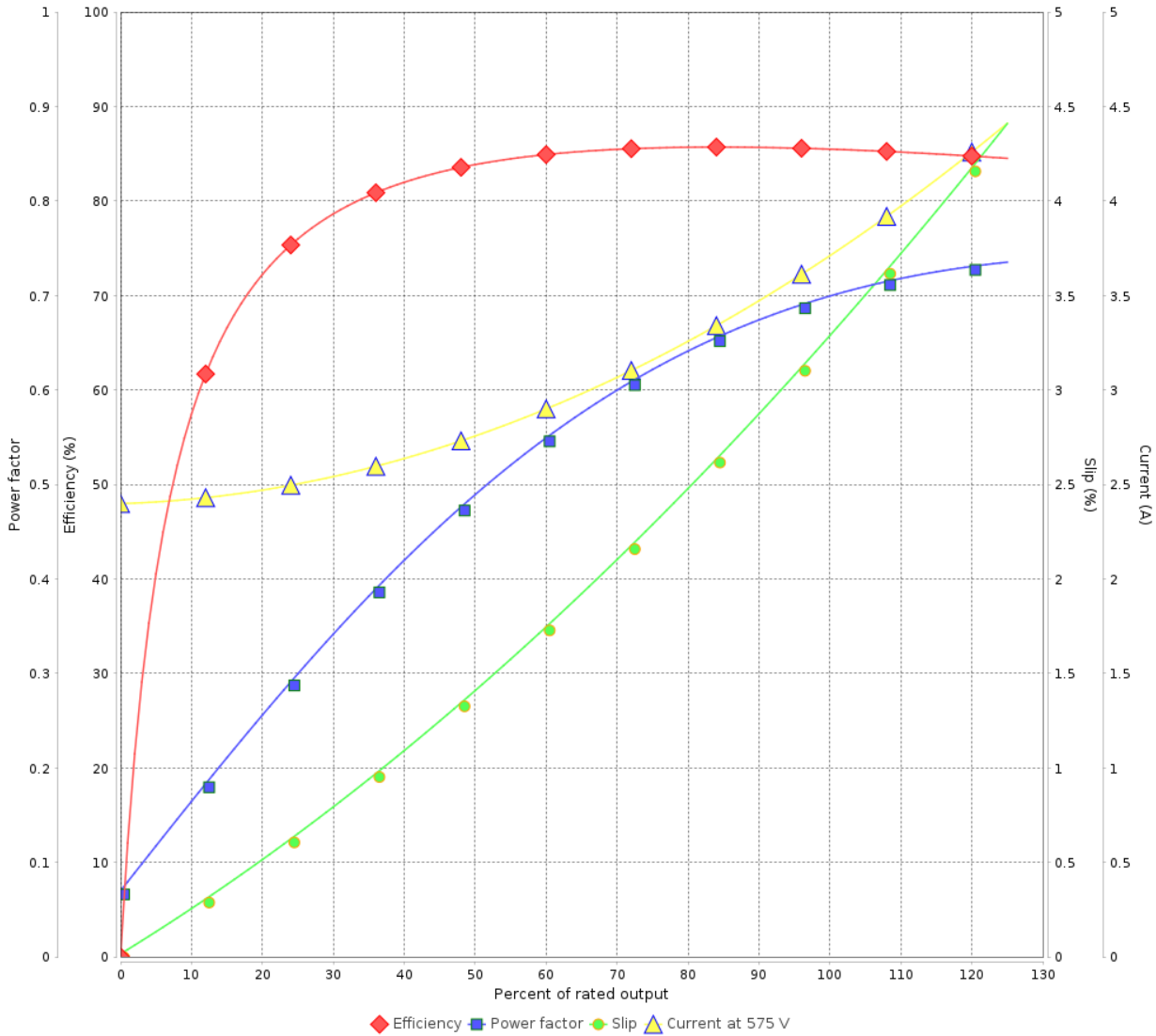
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 11939472

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 8P

Rated current	: 3.69 A	Moment of inertia (J)	: 0.0888 kgm <sup>2</sup>
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 2.50 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 870 rpm	Design	: B

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