

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 12810973

Frame	: 182/4T	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 3.13 A	Protection degree	: IP55
L. R. Amperes	: 25.3 A	Cooling method	: IC411 - TEFC
LRC	: 8.1x(Code K)	Mounting	: F-1
No load current	: 1.60 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 1.24 kgfm	Approx. weight ³	: 45.5 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0143 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	87.5	88.5	89.5	Max. traction	: 62 kgf
Power Factor	0.61	0.71	0.79	Max. compression	: 108 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)
11.0	8.9	8.8	6.1	4.0	3.0	2.1

		<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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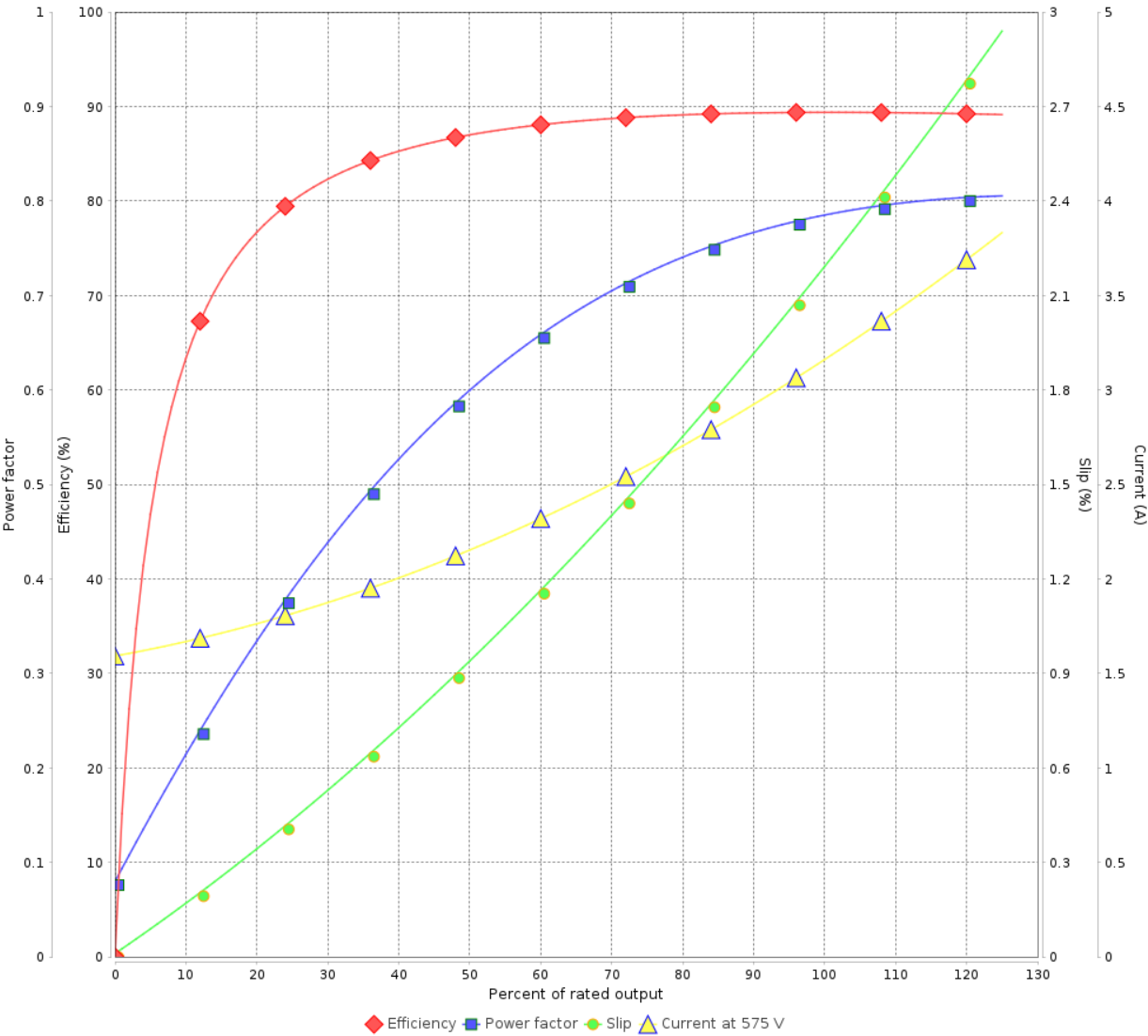
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Performance : 575 V 60 Hz 4P

Rated current	: 3.13 A	Moment of inertia (J)	: 0.0143 kgm ²
LRC	: 8.1	Duty cycle	: Cont.(S1)
Rated torque	: 1.24 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

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