

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 12810976

Frame	: 213/5TC	Locked rotor time	: 39s (cold) 22s (hot)
Output	: 7.5 HP (5.5 kW)	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	: 7.18 A	Protection degree	: IP55
L. R. Amperes	: 51.7 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: F-1
No load current	: 2.56 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3525 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 2.08 %	Vibration	: B
Rated torque	: 1 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 210 %	Approx. weight ³	: 63.0 kg
Breakdown torque	: 290 %		: 202E (ISO 12944 - C4)
Insulation class	: F		: RAL 5009
Service factor	: 1.25	Design	: B
Moment of inertia (J)	: 0.0197 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	87.5	89.5	89.5	Max. traction	: 47 kgf
Power Factor	0.74	0.83	0.86	Max. compression	: 118 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)
11.2	8.7	7.6	6.0	3.6	2.4	1.5

	Drive end	Non drive end
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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
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Date	23/09/2026			

Page 1 / 2
Revision

LOAD PERFORMANCE CURVE

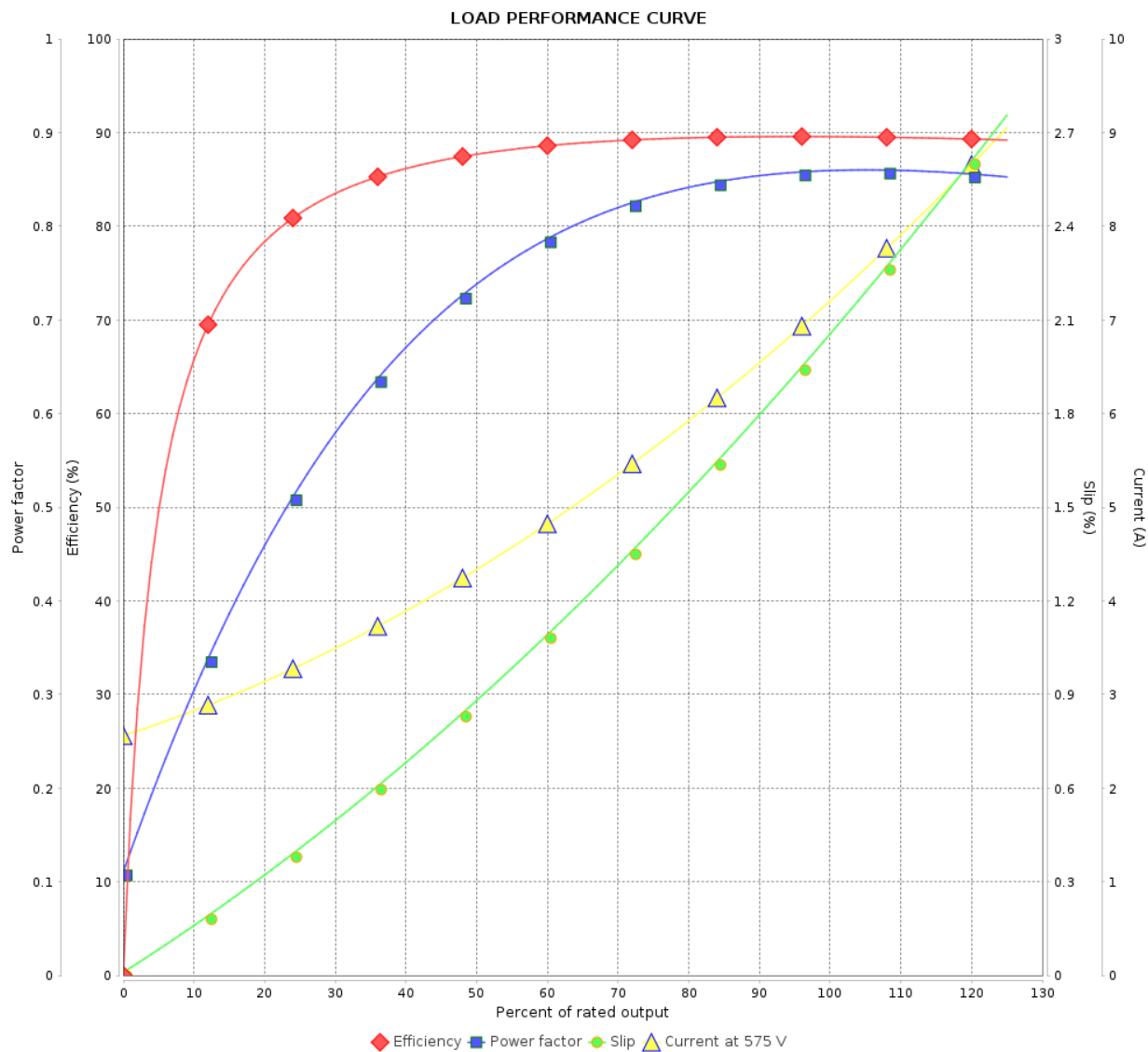
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Customer :

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

Product code : 12810976



Performance : 575 V 60 Hz 2P

Rated current : 7.18 A
LRC : 7.2
Rated torque : 1 kgfm
Locked rotor torque : 210 %
Breakdown torque : 290 %
Rated speed : 3525 rpm

Moment of inertia (J) : 0.0197 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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