

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	Locked rotor time	: 79s (cold) 44s (hot)
Output	: 3 HP (2.2 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	: 3.69 A	Protection degree	: IP55
L. R. Amperes	: 25.1 A	Cooling method	: IC411 - TEFC
LRC	: 6.8x(Code K)	Mounting	: F-1
No load current	: 2.40 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 870 rpm	Noise level ²	: 52.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 2.50 kgfm	Approx. weight ³	: 85.6 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0888 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	84.0	85.5	85.5	Max. traction	: 96 kgf
Power Factor	0.49	0.62	0.70	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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision 1 / 2		
Checked by				
Date	22/10/2024			

LOAD PERFORMANCE CURVE

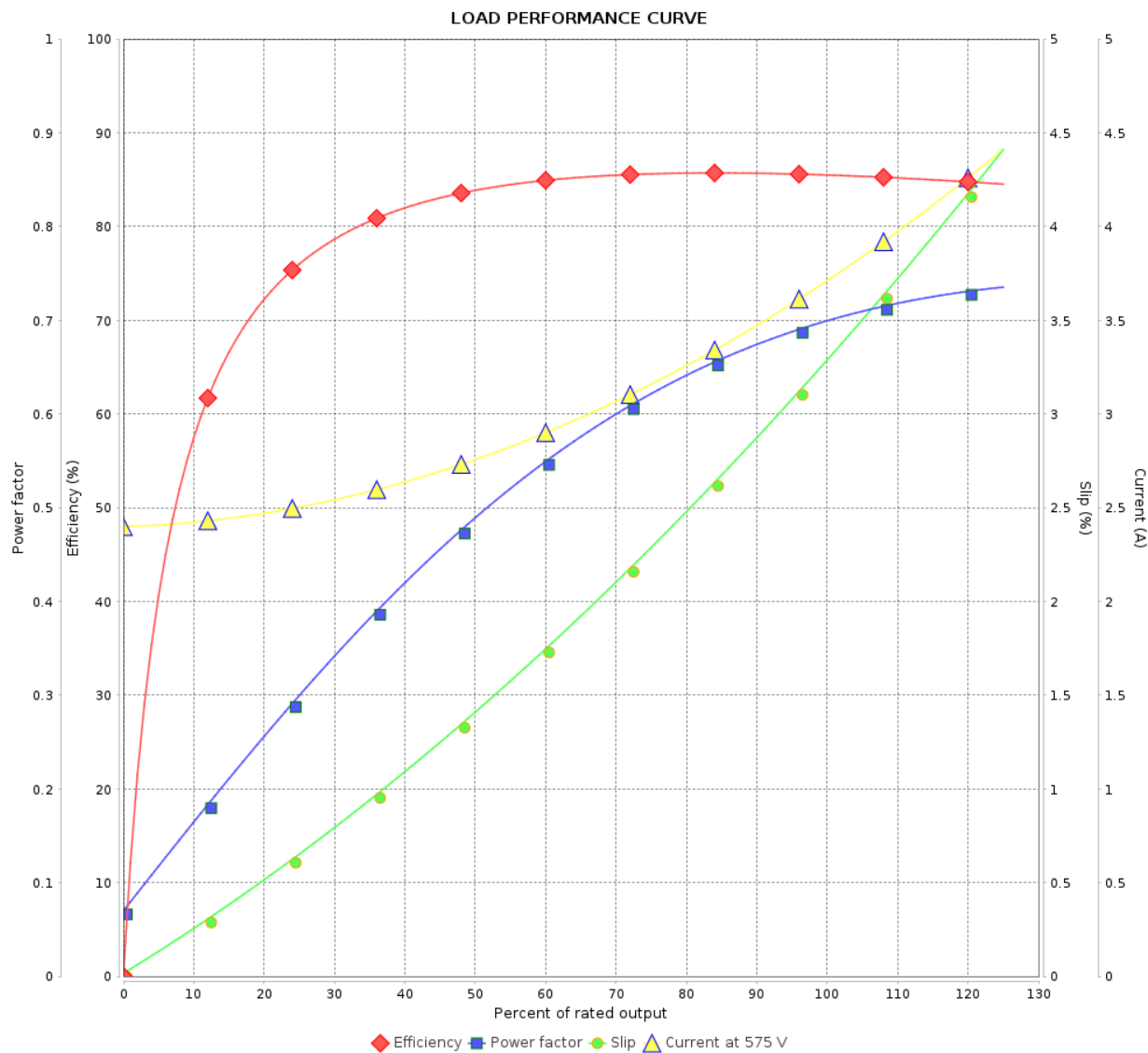
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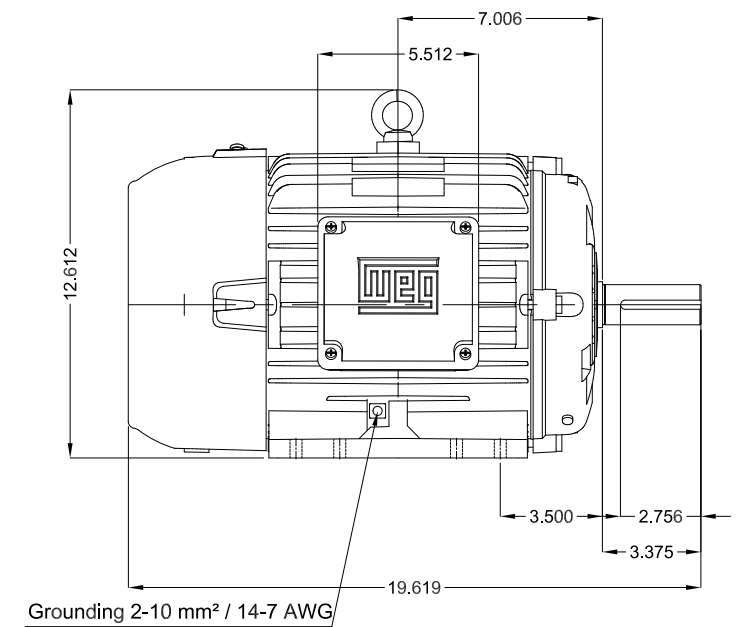
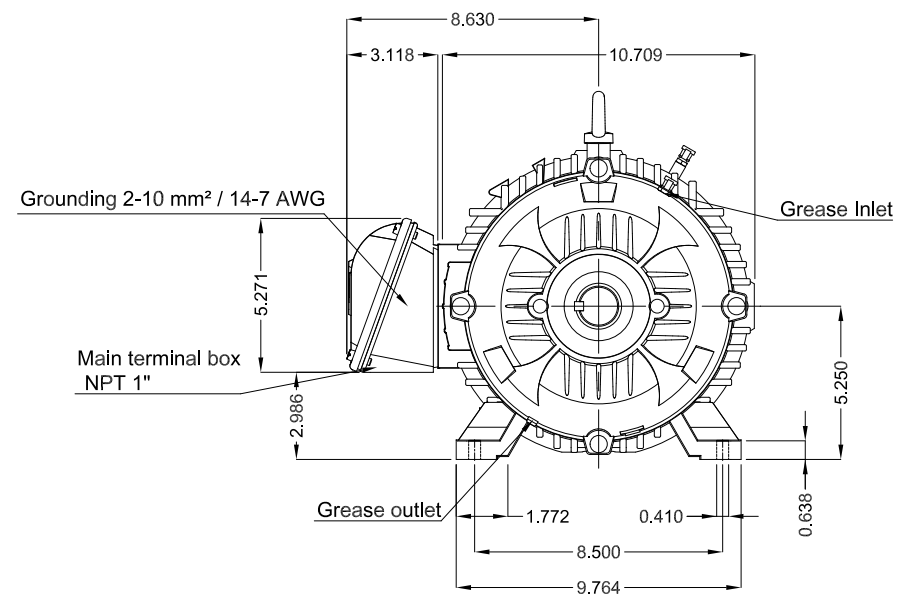
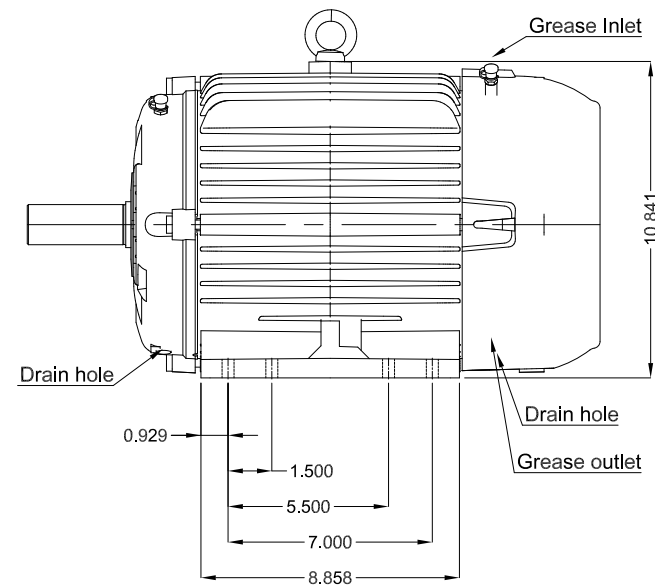





Performance : 575 V 60 Hz 8P

Rated current : 3.69 A
LRC : 6.8
Rated torque : 2.50 kgfm
Locked rotor torque : 220 %
Breakdown torque : 300 %
Rated speed : 870 rpm

Moment of inertia (J) : 0.0888 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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3 HP 08 Poles 60 Hz										A	
						HYBRISUSER				00	
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED	HYBRISUSER	 	THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF. FRAME 213/5T IP55 TEFC				PREVIEW WDD 00				
CHECKED											
RELEASED											
REL. DATE											
						SHEET					