

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11941856

Frame	: 324/6TC	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 25 HP (18.5 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	: 28.7 A	Protection degree	: IP55
L. R. Amperes	: 149 A	Cooling method	: IC411 - TEFC
LRC	: 5.2x(Code G)	Mounting	: F-1
No load current	: 16.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 880 rpm	Noise level <sup>2</sup>	: 56.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 20.6 kgfm	Approx. weight <sup>3</sup>	: 258 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.5023 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	89.5	91.0	91.0	Max. traction	: 468 kgf
Power Factor	0.51	0.64	0.71	Max. compression	: 726 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)
9.5	7.4	6.5	5.8	3.9	3.1	2.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 C3	6212 C3
Sealing	:	Taconite Labyrinth	Taconite Labyrinth
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	13 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	13/01/2024			

# LOAD PERFORMANCE CURVE

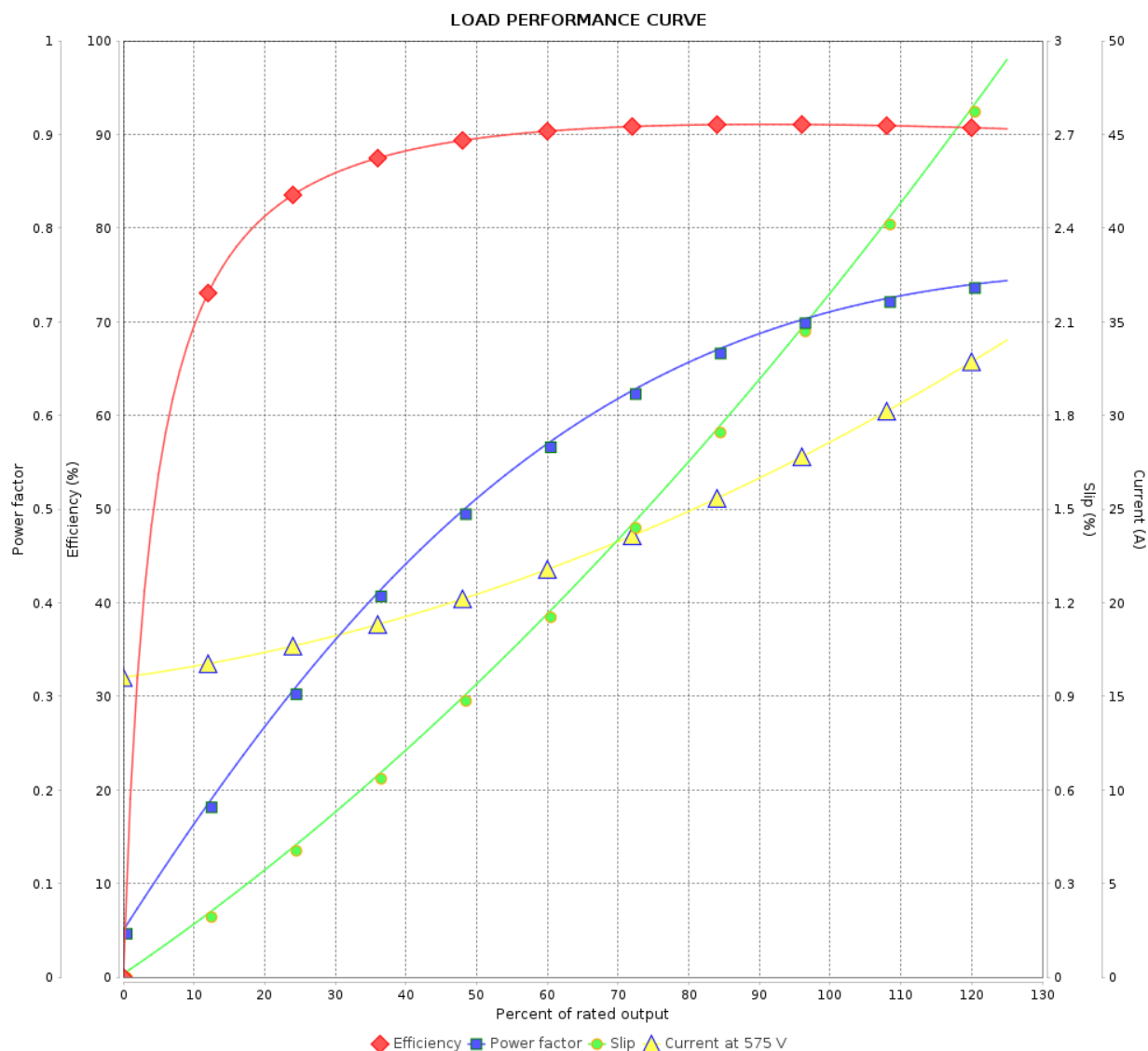
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Three-Phase

Product code : 11941856

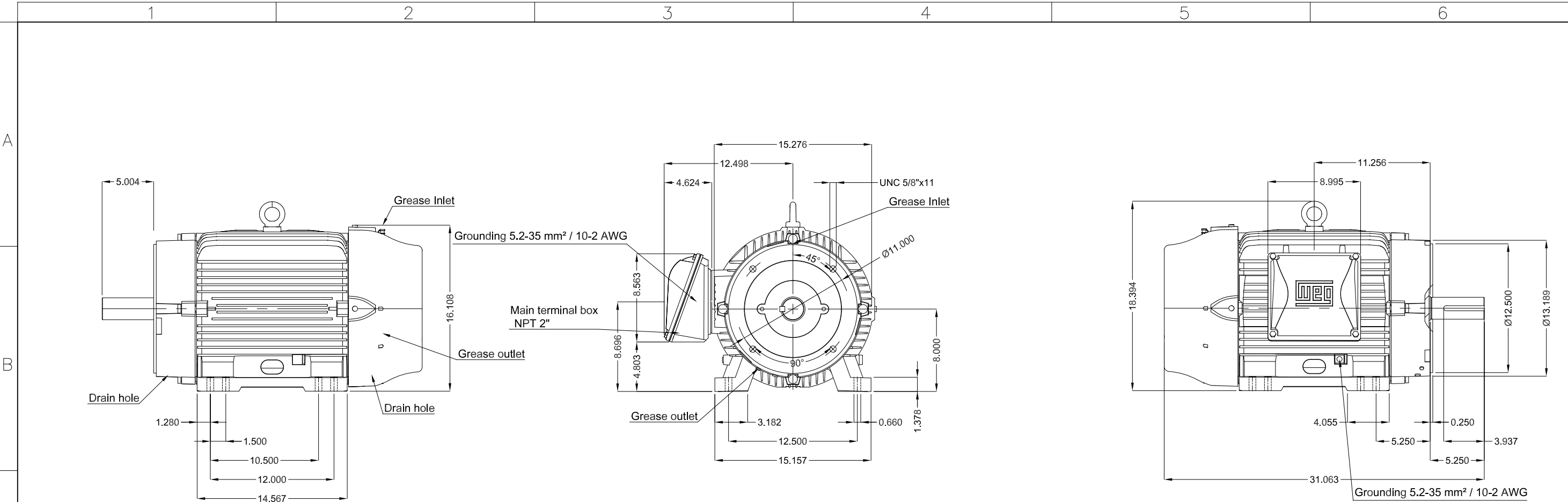


Performance : 575 V 60 Hz 8P

Rated current : 28.7 A  
LRC : 5.2  
Rated torque : 20.6 kgfm  
Locked rotor torque : 200 %  
Breakdown torque : 229 %  
Rated speed : 880 rpm

Moment of inertia (J) : 0.5023 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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		ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE VER
		EXECUTED	HYBRISUSER	<div><div></div><div></div></div> THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF. FRAME 324/6TC IP55 TEFC				PREVIEW WDD 00 SHEET /			
		CHECKED									
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Without vertical jackscrews
Sealing - Taconite labyrinth
Grease outlet according to IEEE841
Color RAL 5009
Painting plan 222E
Mounting B34R(D)

