

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11943143

Frame	: 364/5T	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 40 HP (30 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	: 40.7 A	Protection degree	: IP55
L. R. Amperes	: 240 A	Cooling method	: IC411 - TEFC
LRC	: 5.9x(Code G)	Mounting	: F-1
No load current	: 17.2 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 882 rpm	Noise level <sup>2</sup>	: 60.0 dB(A)
Slip	: 2.00 %	Starting method	: Direct On Line
Rated torque	: 32.9 kgfm	Approx. weight <sup>3</sup>	: 399 kg
Locked rotor torque	: 170 %		
Breakdown torque	: 210 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.22 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	92.4	93.0	92.4	Max. traction	: 577 kgf
Power Factor	0.65	0.75	0.80	Max. compression	: 975 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)
8.1	7.1	6.5	3.6	2.6	1.6	1.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	Taconite Labyrinth	Taconite Labyrinth
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	27 g	27 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 1 / 2 Revision		
Checked by				
Date	22/10/2024			

# LOAD PERFORMANCE CURVE

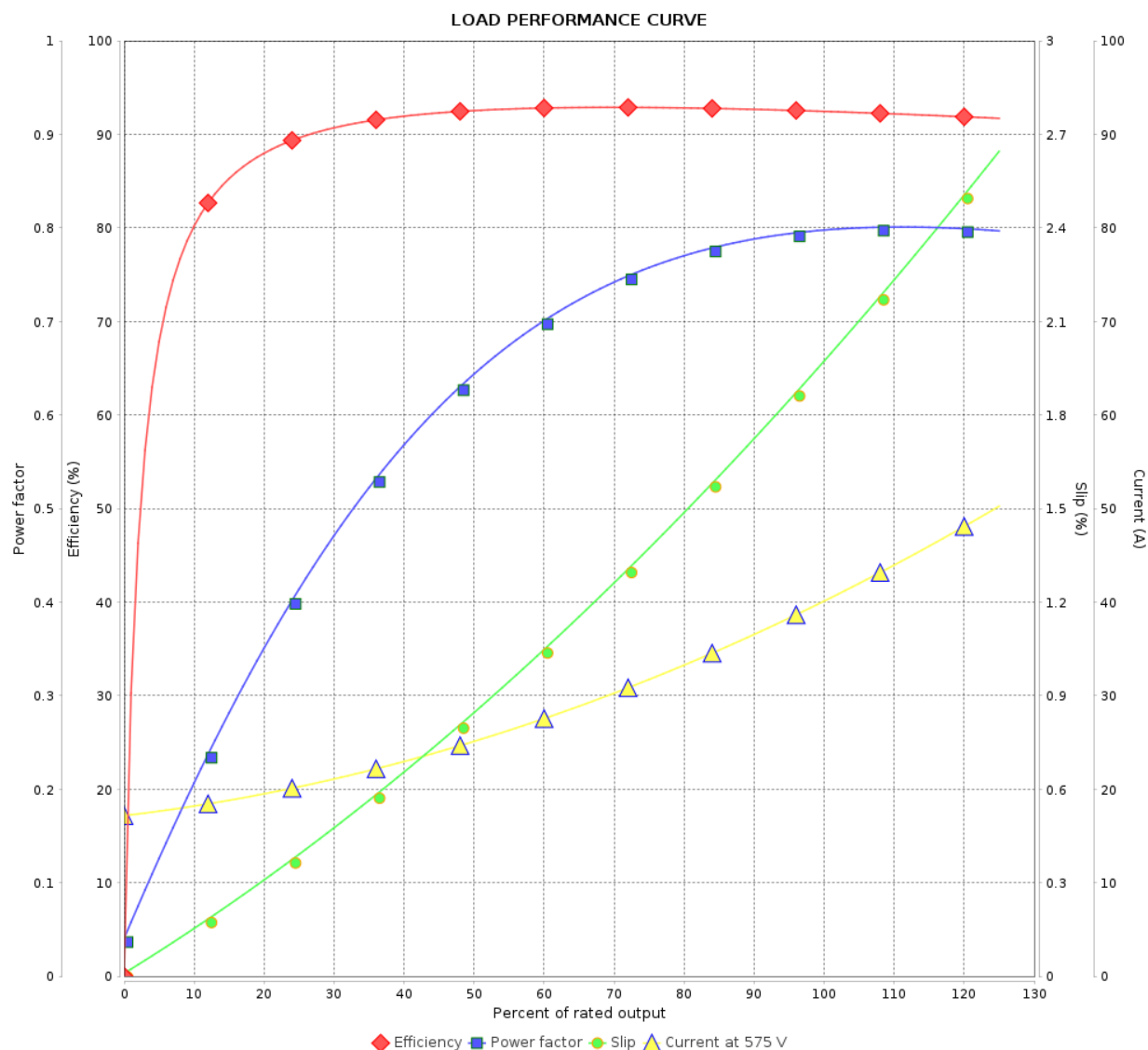
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Efficiency Three-Phase

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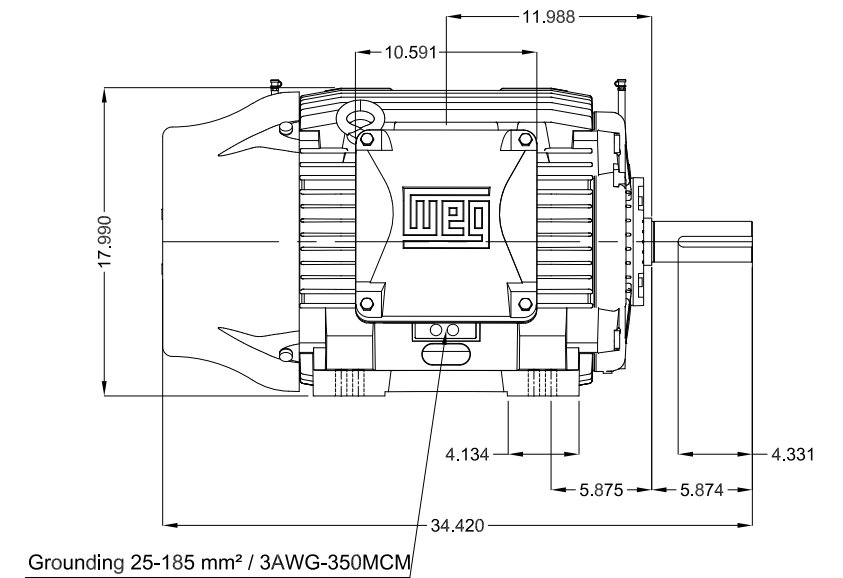
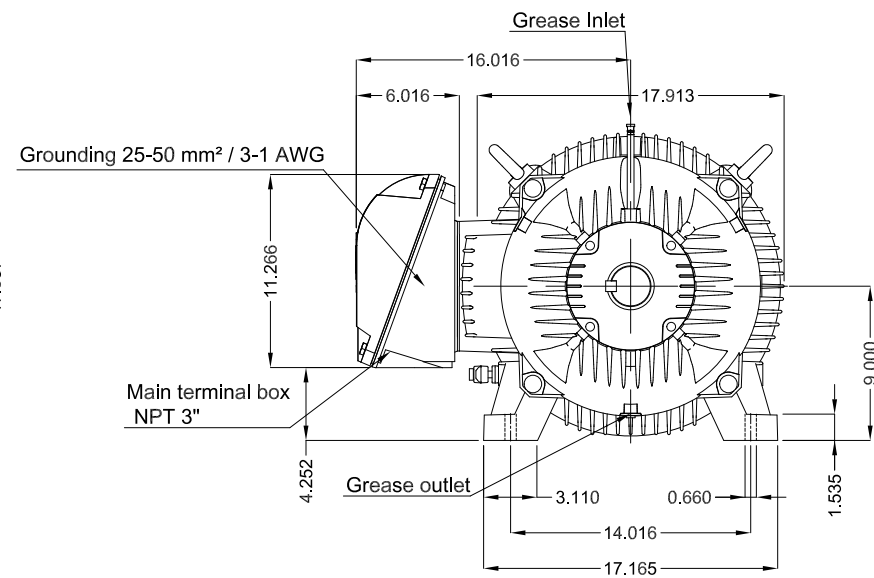
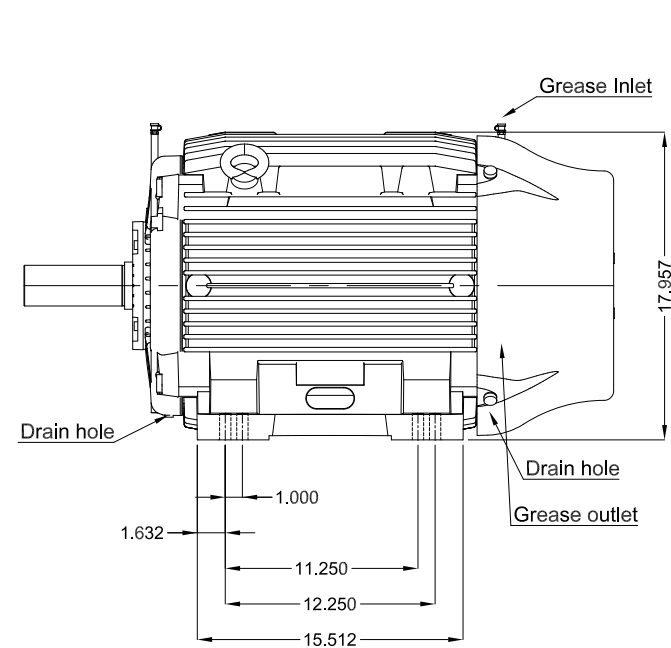




Performance : 575 V 60 Hz 8P

Rated current : 40.7 A  
LRC : 5.9  
Rated torque : 32.9 kgfm  
Locked rotor torque : 170 %  
Breakdown torque : 210 %  
Rated speed : 882 rpm

Moment of inertia (J) : 1.22 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
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40 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 364/5T IP55 TEFC					PREVIEW			
CHECKED								WDD	00		
RELEASED											
REL. DATE							SHEET		/		