

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 11943107

Frame	: 364/5T	Locked rotor time	: 37s (cold) 21s (hot)
Output	: 40 HP (30 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 37.2 A	Protection degree	: IP55
L. R. Amperes	: 238 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 13.2 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1183 rpm	Noise level <sup>2</sup>	: 66.0 dB(A)
Slip	: 1.42 %	Starting method	: Direct On Line
Rated torque	: 24.5 kgfm	Approx. weight <sup>3</sup>	: 406 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 240 %		
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 (%)	93.6	93.6	94.1	Max. traction	: 458 kgf
Power Factor	0.73	0.82	0.86	Max. compression	: 864 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)
6.1	5.0	4.4	2.8	1.9	1.1	0.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	Taconite Labyrinth	Taconite Labyrinth
Lubrication interval	:	17000 h	17000 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
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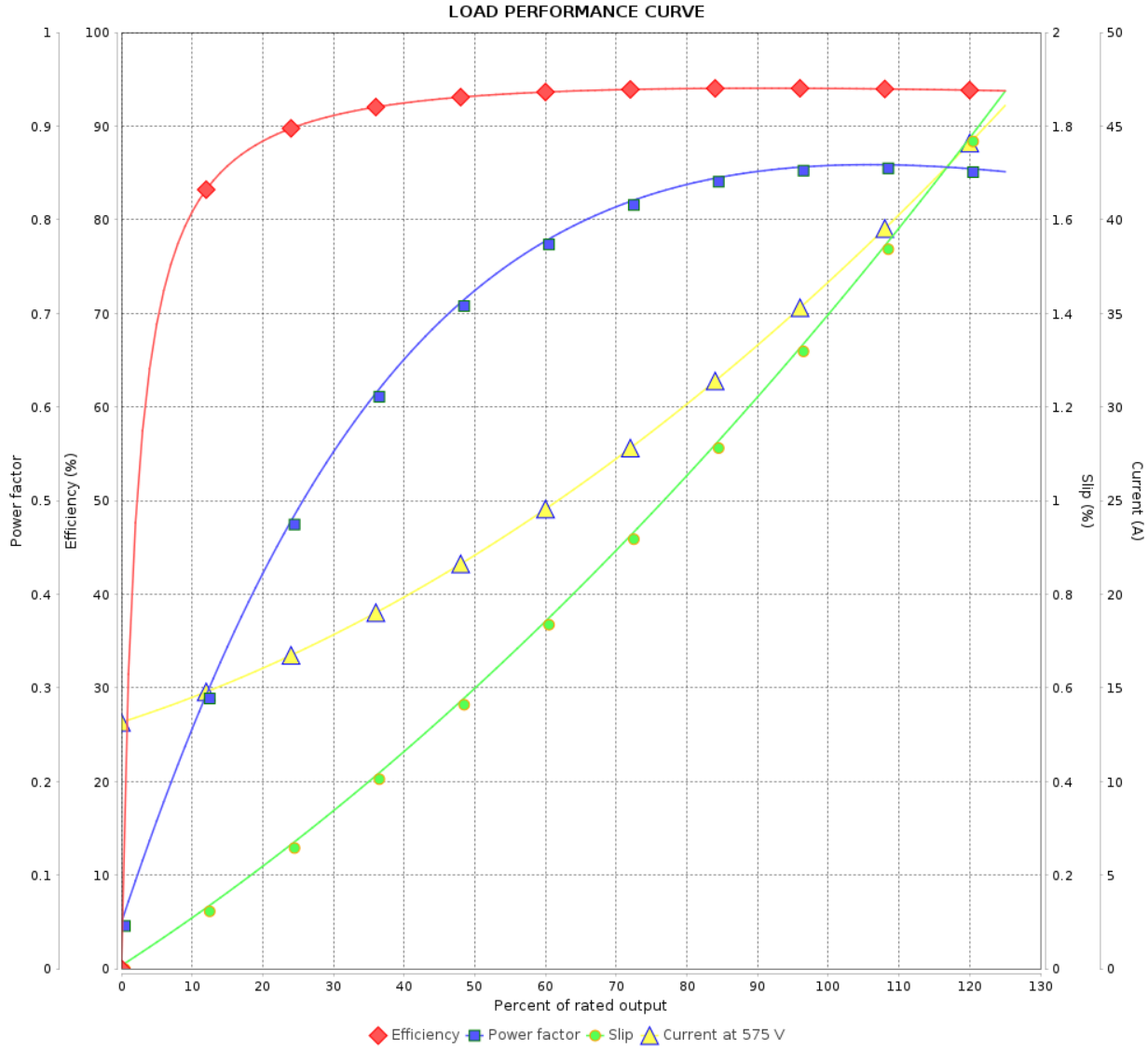
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

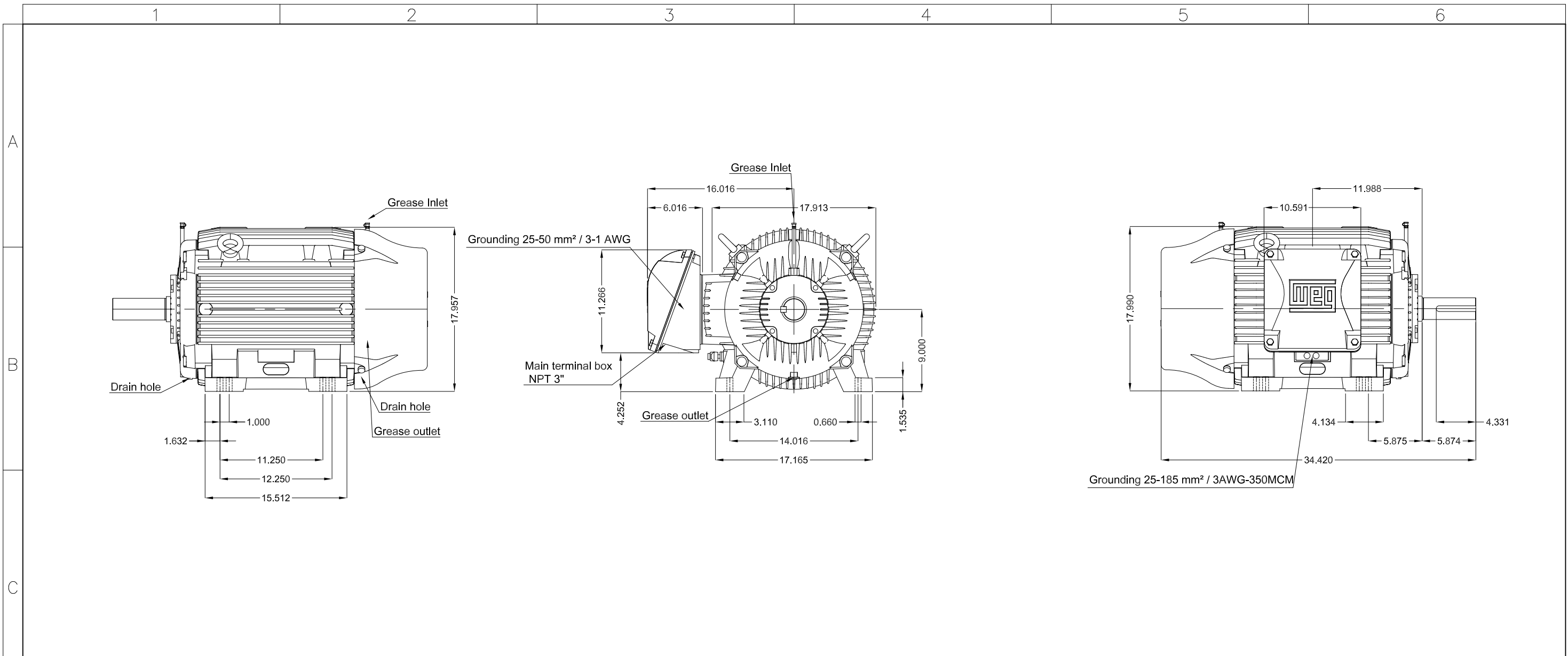
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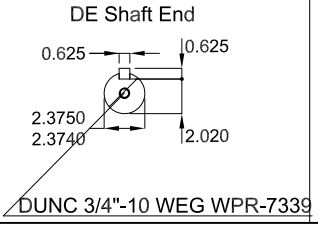
Performance : 575 V 60 Hz 6P

Rated current	: 37.2 A	Moment of inertia (J)	: 1.22 kgm <sup>2</sup>
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 24.5 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1183 rpm	Design	: B

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D	40 HP 06 Poles 60 Hz										A
E	Without vertical jackscrews										
	Sealing - Taconite labyrinth										
	Grease outlet according to IEEE841										
	Color RAL 5009										
Painting plan 222E											
Mounting B3R(D)											



ECM	LOC		SUMMARY OF MODIFICATIONS THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF. FRAME 364/5T IP55 TEFC	HYBRISUSER						00
EXECUTED	HYBRISUSER			EXECUTED	CHECKED	RELEASED	DATE	VER		
CHECKED										
RELEASED										
REL. DATE										

**PREVIEW**  
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