

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 ¹	:	Both (CW and CCW)
Rated speed	:	1183 rpm		Noise level ²	:	66.0 dB(A)
Slip	:	1.42 %		Starting method	:	Direct On Line
Rated torque	:	24.5 kgfm		Approx. weight ³	:	406 kg
Locked rotor torque	:	200 %				
Breakdown torque	:	240 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	1.22 kgm ²				
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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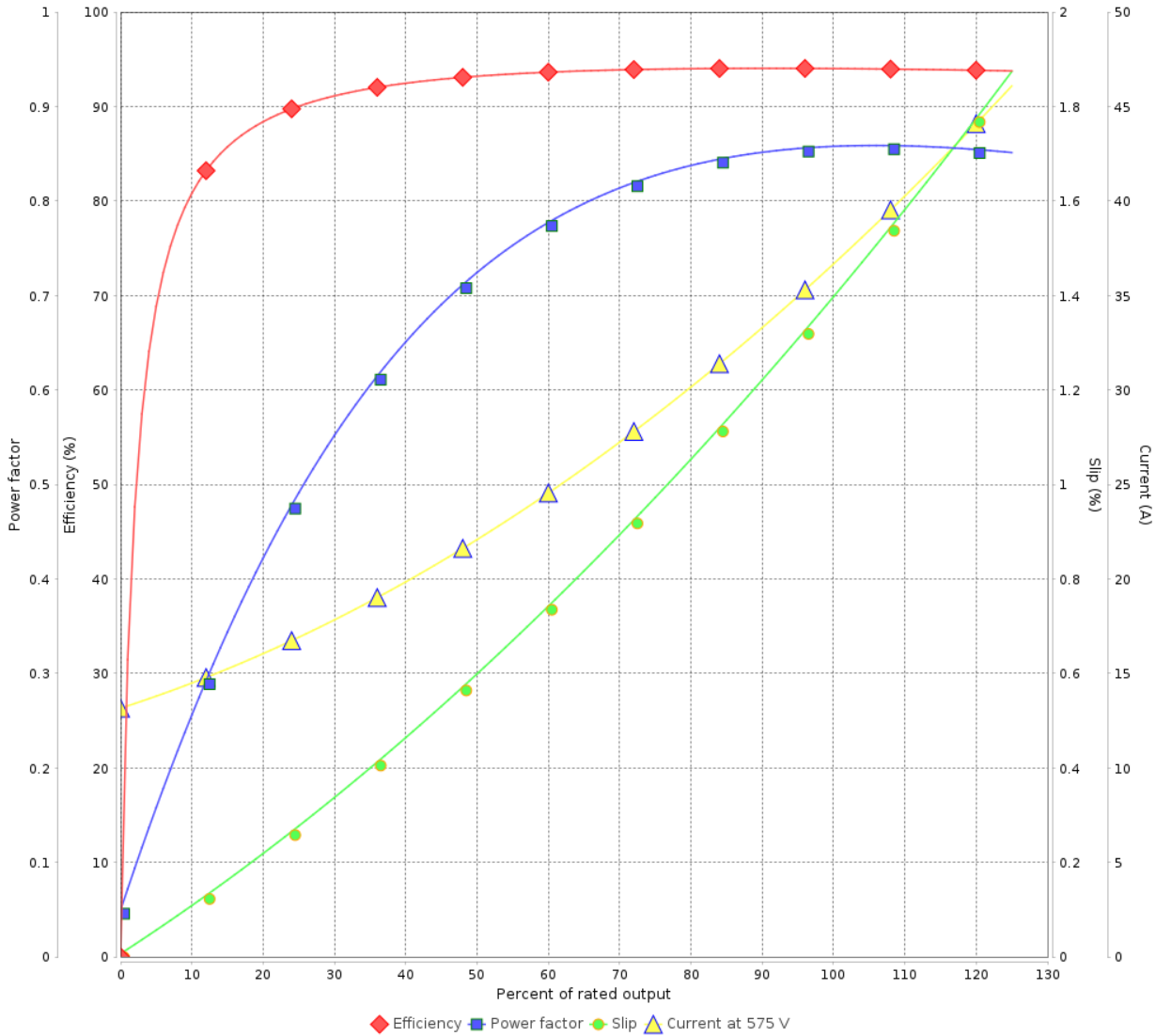
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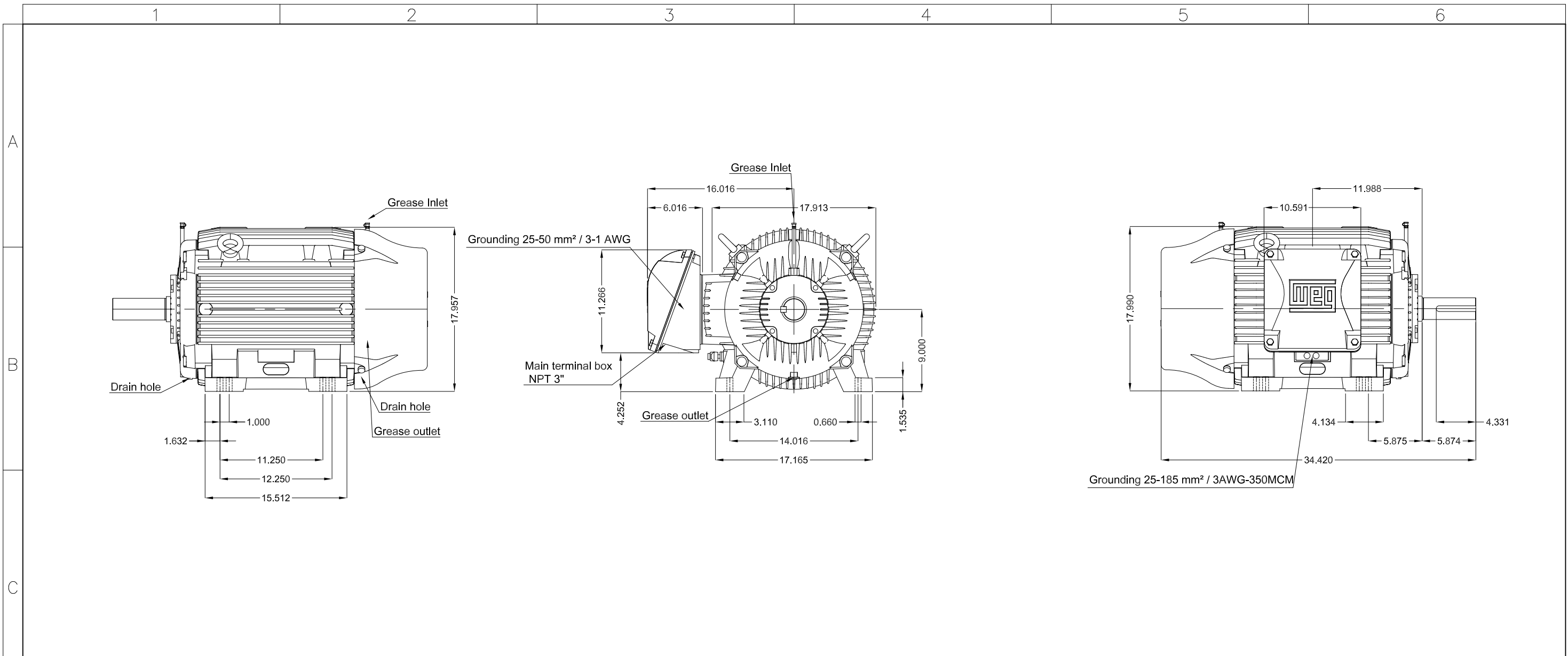
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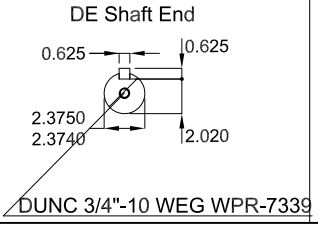
Performance : 575 V 60 Hz 6P

Rated current	: 37.2 A	Moment of inertia (J)	: 1.22 kgm ²
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									
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				HYBRISUSER			00	
EXECUTED	HYBRISUSER		THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF.				EXECUTED	CHECKED	RELEASED	DATE	VER
CHECKED			FRAME 364/5T IP55 TEFC								
RELEASED											
REL. DATE											

PREVIEW
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