

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 13763562

Frame	: 213/5T	Locked rotor time	: 102s (cold) 57s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 200 V	Altitude	: 1000 m.a.s.l.
Rated current	: 15.7 A	Protection degree	: IP55
L. R. Amperes	: 107 A	Cooling method	: IC411 - TEFC
LRC	: 6.8x(Code J)	Mounting	: F-1
No load current	: 7.94 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1170 rpm	Noise level ²	: 55.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 3.10 kgfm	Approx. weight ³	: 82.0 kg
Locked rotor torque	: 170 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0620 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	88.5	89.5	89.5	Max. traction	: 108 kgf
Power Factor	0.00	0.58	0.70	0.76	Max. compression	: 190 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 C3	6207 C3
Sealing	:	Inpro/Seal	Inpro/Seal
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

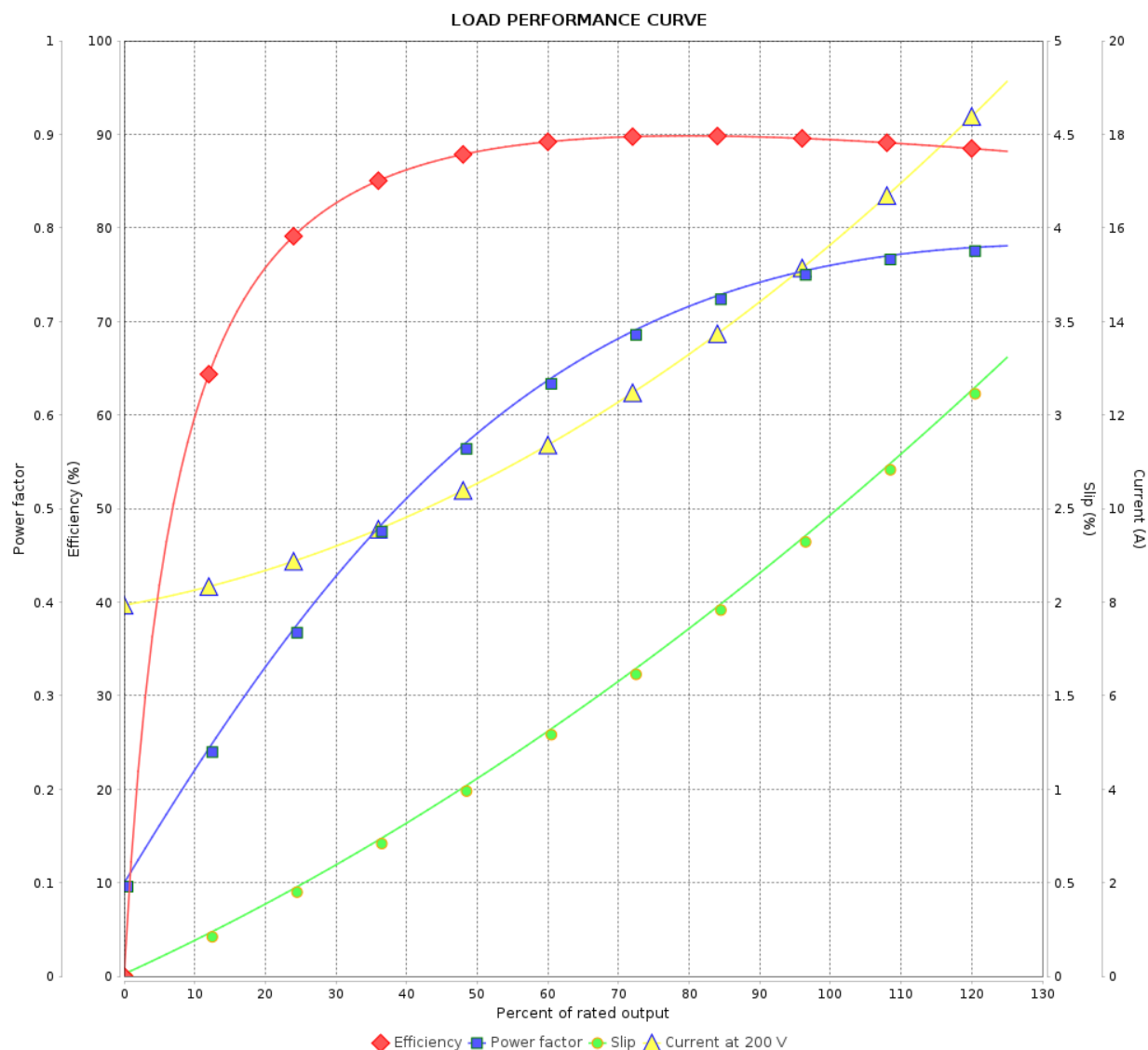
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Efficiency Three-Phase

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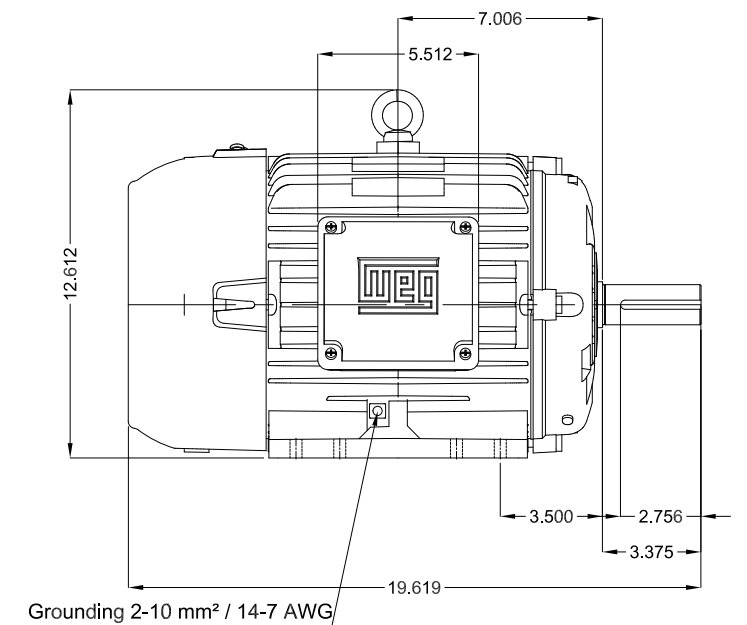
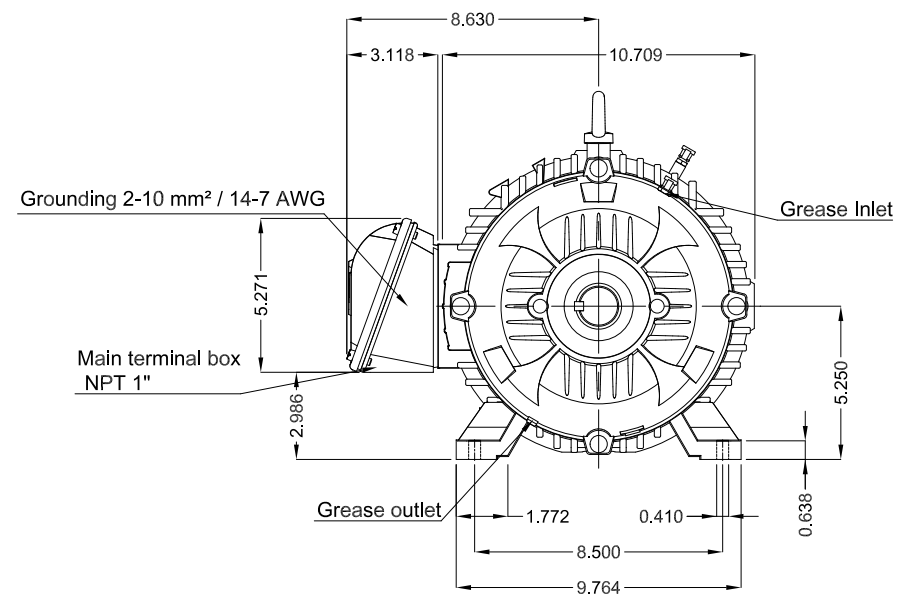
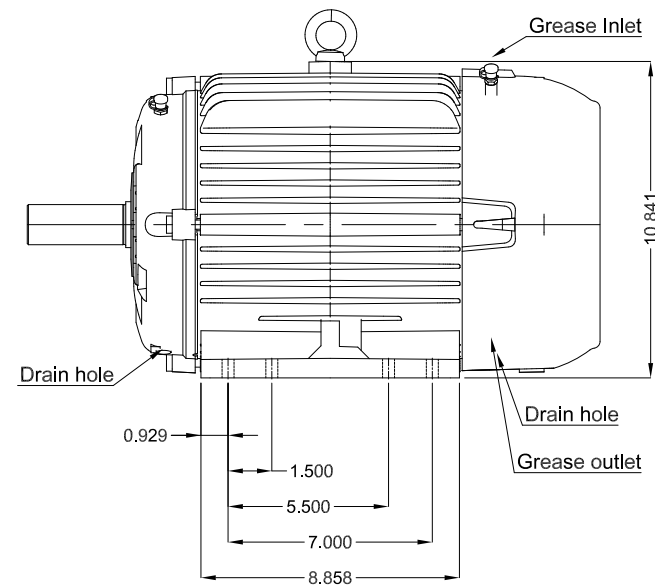


Performance : 200 V 60 Hz 6P

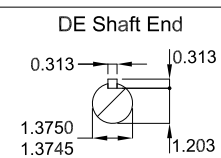
Rated current : 15.7 A
LRC : 6.8
Rated torque : 3.10 kgfm
Locked rotor torque : 170 %
Breakdown torque : 260 %
Rated speed : 1170 rpm



Moment of inertia (J) : 0.0620 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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Date					



Grease outlet according to IEEE841
Color RAL 5009
Painting plan 202E
Mounting NEMA F-1
Mounting B3R(D)



5 HP 06 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											