

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 13531620

Frame	: 143/5TC	Locked rotor time	: 50s (cold) 28s (hot)
Output	: 1 HP (0.75 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	: 1.38 A	Protection degree	: IP56
L. R. Amperes	: 8.58 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code K)	Mounting	: F-1
No load current	: 0.880 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1160 rpm	Noise level ²	: 50.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 0.626 kgfm	Approx. weight ³	: 28.1 kg
Locked rotor torque	: 260 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0067 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	77.0	82.0	82.5	Max. traction	: 39 kgf
Power Factor	0.45	0.57	0.66	Max. compression	: 67 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)
20.0	16.7	16.9	12.6	9.2	7.6	5.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 C3	6204 C3
Sealing	:	Inpro/Seal	Inpro/Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	4 g	4 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	29/10/2024			

LOAD PERFORMANCE CURVE

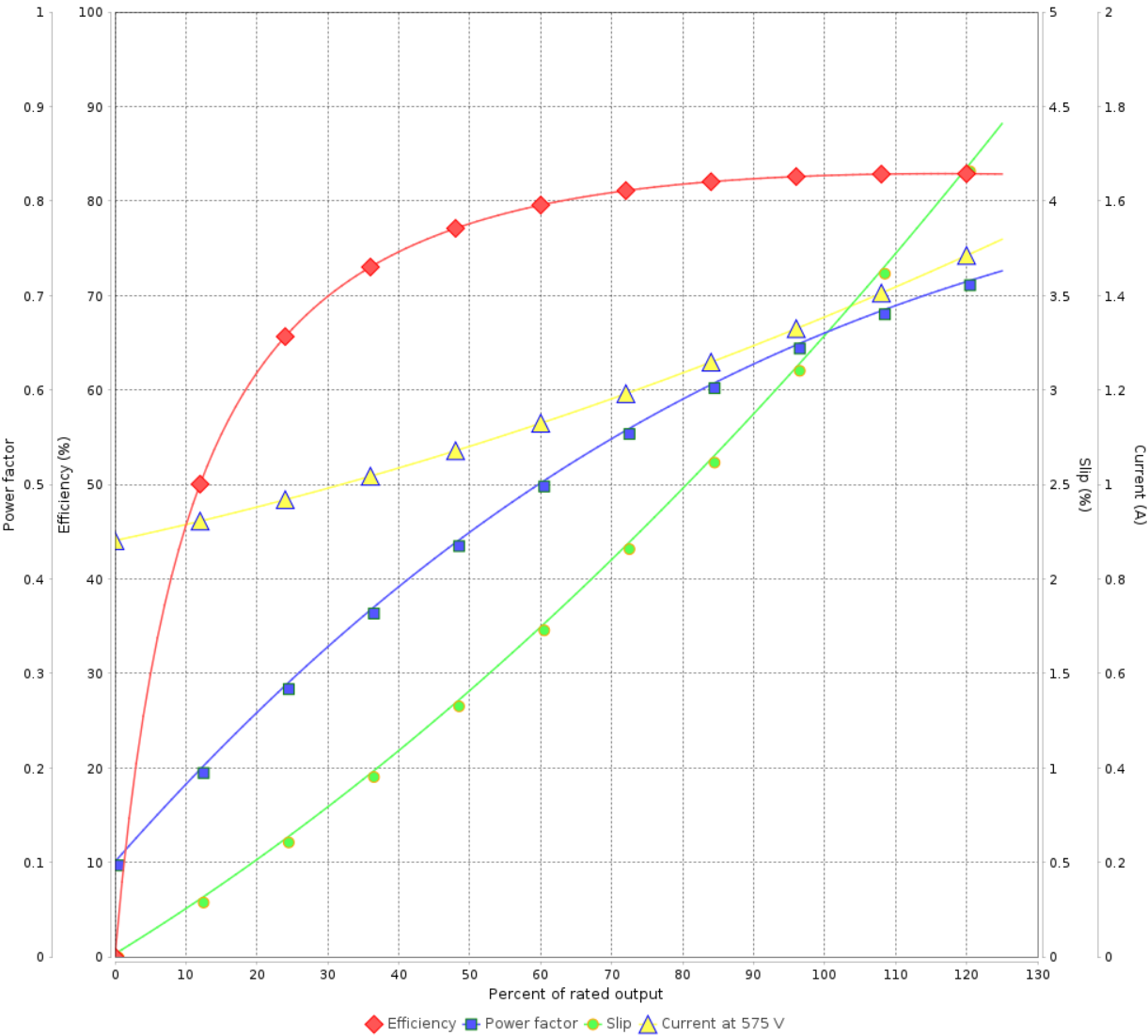
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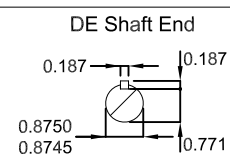
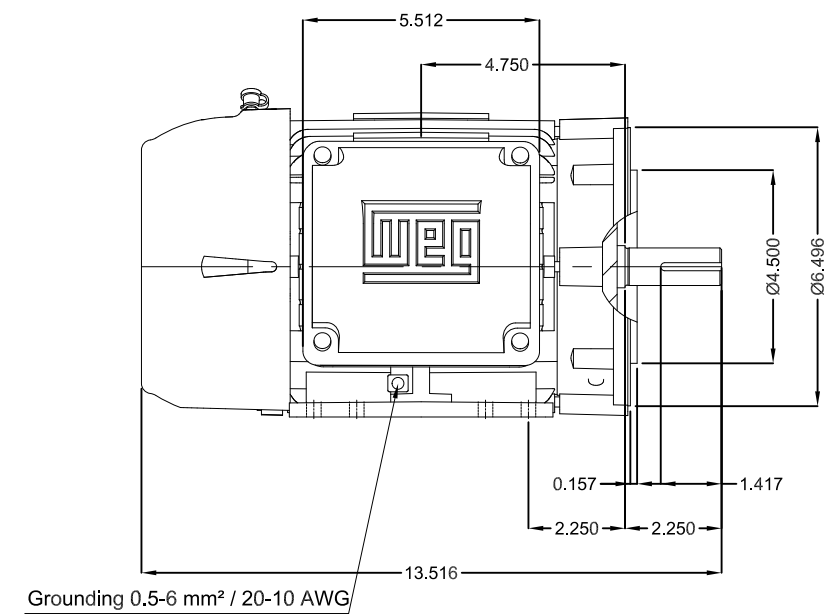
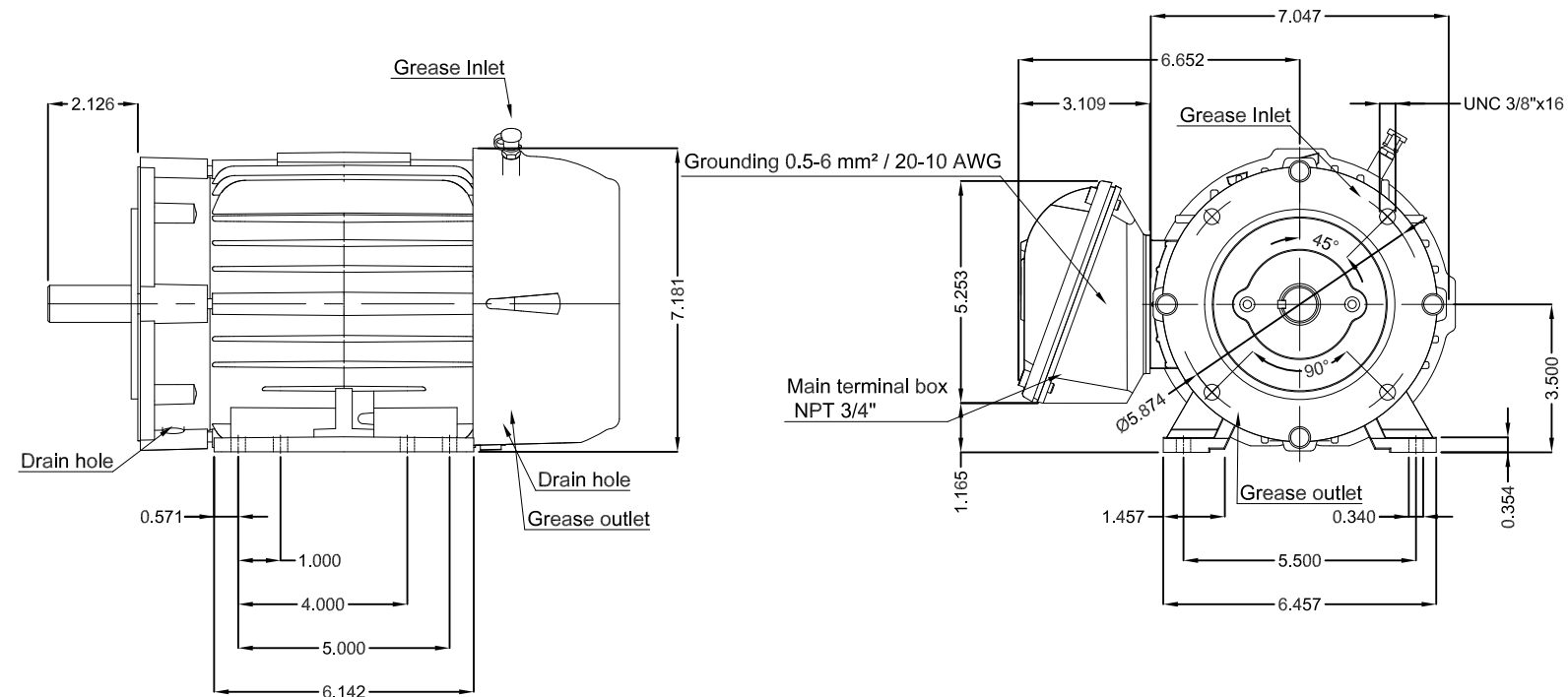
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Performance : 575 V 60 Hz 6P			
Rated current	: 1.38 A	Moment of inertia (J)	: 0.0067 kgm ²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 0.626 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1160 rpm	Design	: B

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Grease outlet according to IEEE841
Color RAL 5009
Painting plan 202E
Mounting NEMA F-1
Mounting B34R(D)

1 HP 06 Poles 60 Hz										A		
								HYBRISUSER				
ECM		LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED		HYBRISUSER		THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF. FRAME 143/5TC IP56 TEFC				PREVIEW				
CHECKED								WDD		00		
RELEASED								SHEET		/		
REL. DATE												