

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 13531467

Frame	: 143/5T	Locked rotor time	: 39s (cold) 22s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 1.15 A	Protection degree	: IP55
L. R. Amperes	: 9.45 A	Cooling method	: IC411 - TEFC
LRC	: 8.2x(Code L)	Mounting	: F-1
No load current	: 0.568 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3500 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 0.207 kgfm	Approx. weight ³	: 21.3 kg
Locked rotor torque	: 320 %		
Breakdown torque	: 400 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0014 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	75.0	79.0	81.5	Max. traction	: 13 kgf
Power Factor	0.63	0.74	0.80	Max. compression	: 34 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)
20.4	14.0	13.0	13.2	7.0	5.5	3.4

	Drive end	Non drive end
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 Revision 1 / 2		
Checked by				
Date	08/08/2023			

LOAD PERFORMANCE CURVE

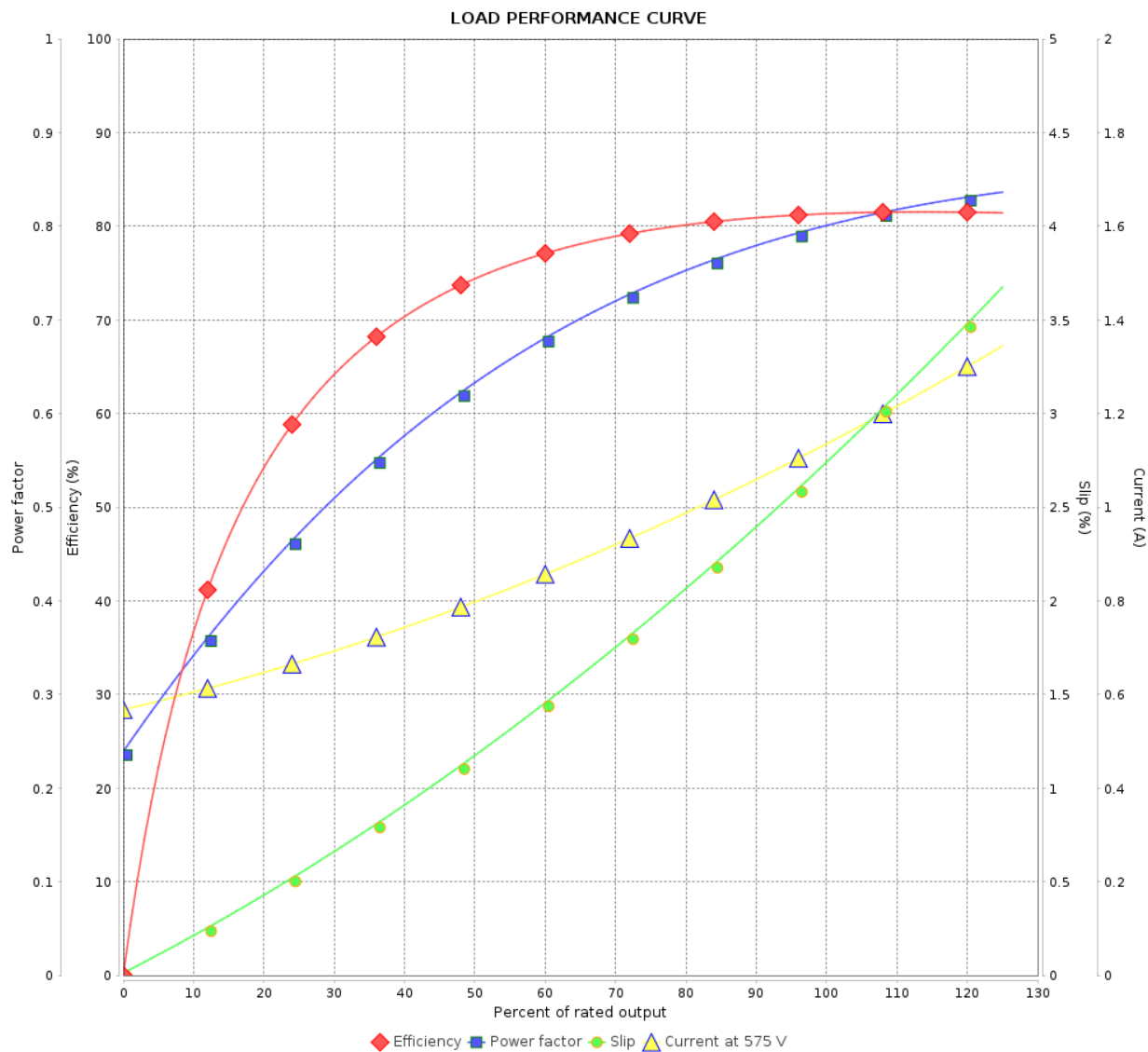
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Three-Phase

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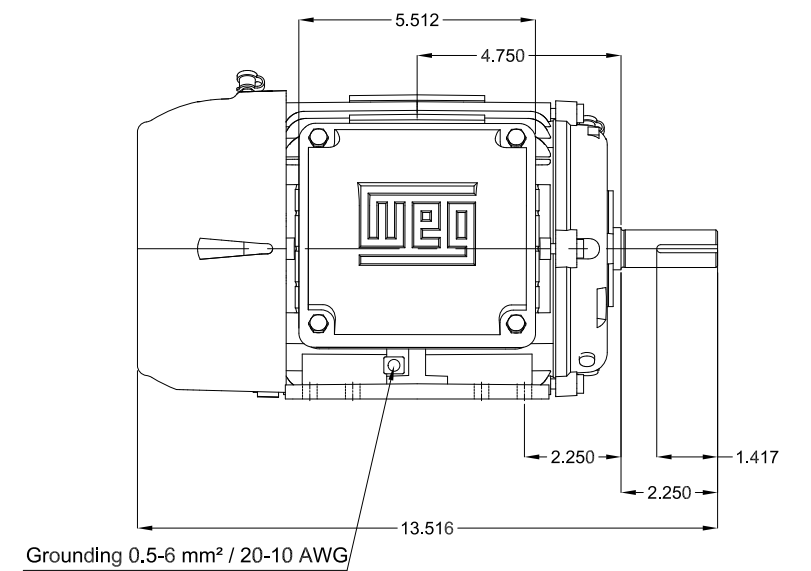
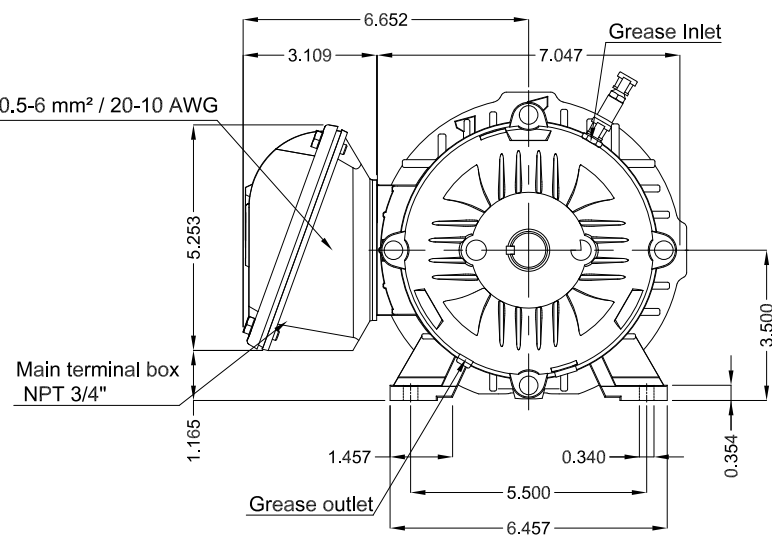


Performance : 575 V 60 Hz 2P

Rated current : 1.15 A
LRC : 8.2
Rated torque : 0.207 kgfm
Locked rotor torque : 320 %
Breakdown torque : 400 %
Rated speed : 3500 rpm

Moment of inertia (J) : 0.0014 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K

Rev.	Changes Summary		Performed	Checked	Date
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1 HP 02 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 143/5T IP55 TEFC				PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE										
						SHEET				