

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 14139257

Frame	: 143TC	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 0.844 A	Protection degree	: IP55
L. R. Amperes	: 9.71 A	Cooling method	: IC411 - TEFC
LRC	: 11.5x(Code T)	Mounting	: F-1
No load current	: 0.752 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level ²	: 51.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 0.204 kgfm	Approx. weight ³	: 23.0 kg
Locked rotor torque	: 645 %		
Breakdown torque	: 705 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0049 kgm ²		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	68.7	76.0	80.0	Max. traction	: 29 kgf
Power Factor	0.00	0.35	0.46	0.55	Max. compression	: 52 kgf

		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 1 / 2 Revision		
Checked by				
Date	01/07/2023			

LOAD PERFORMANCE CURVE

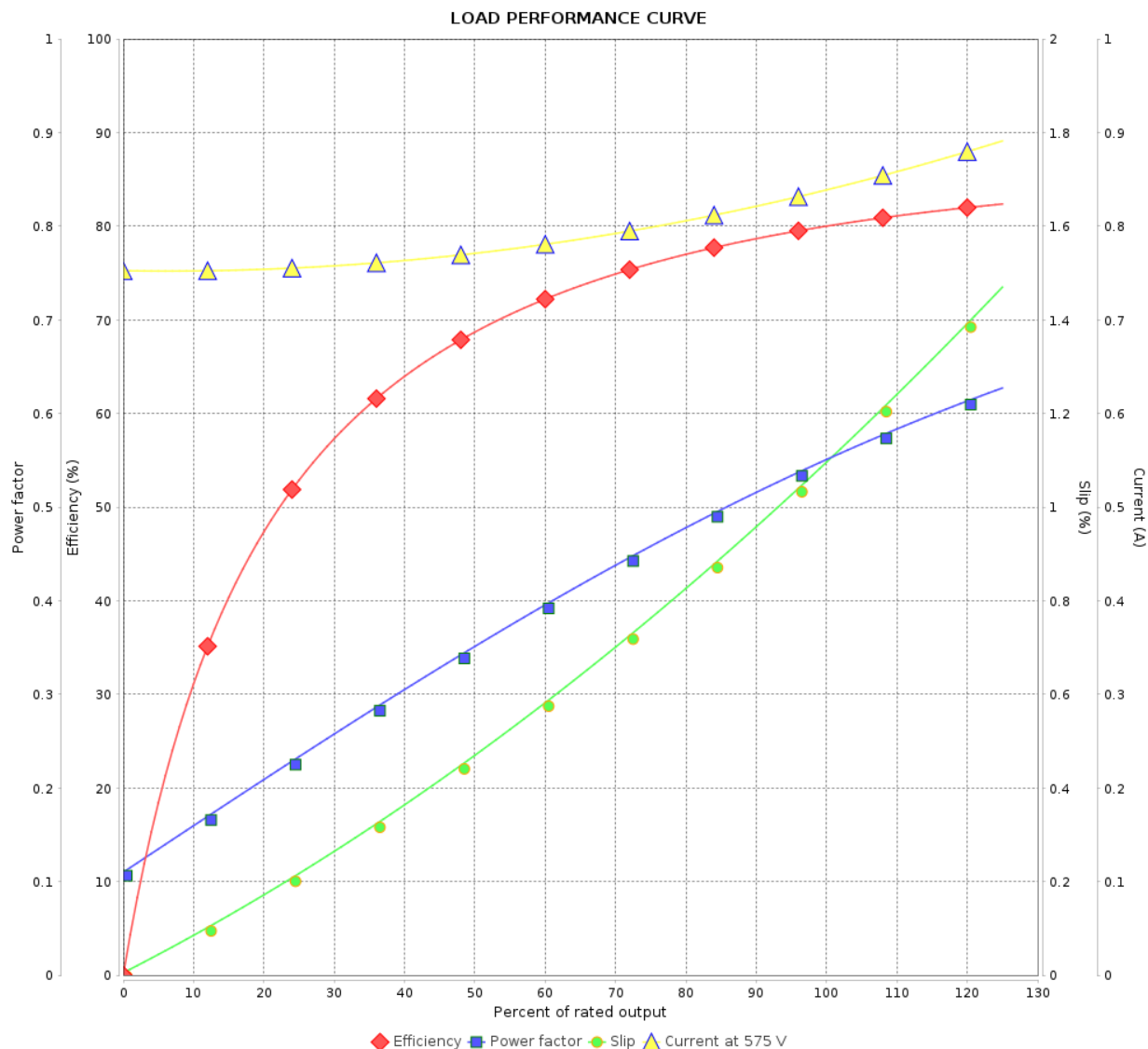
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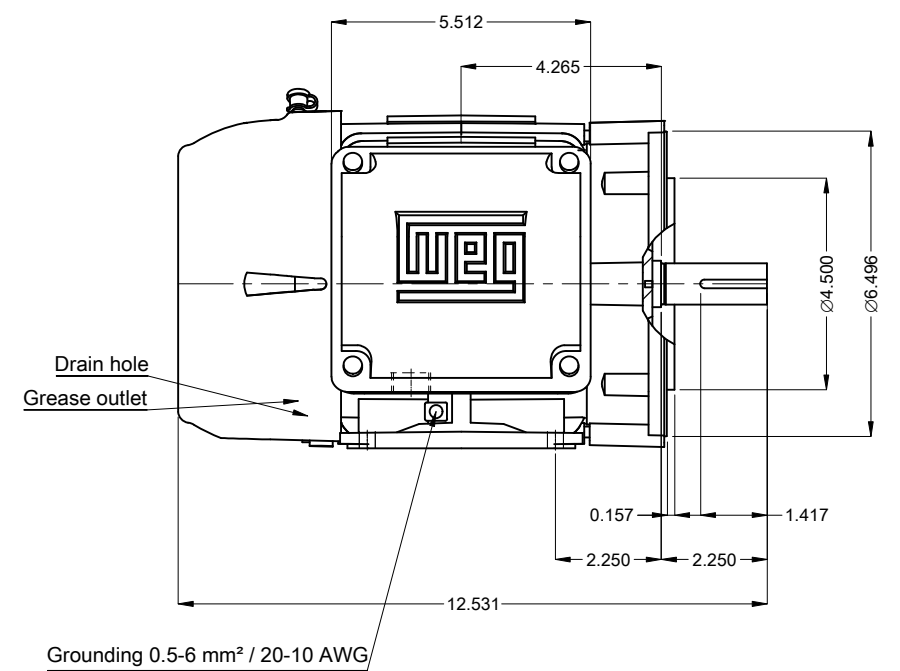
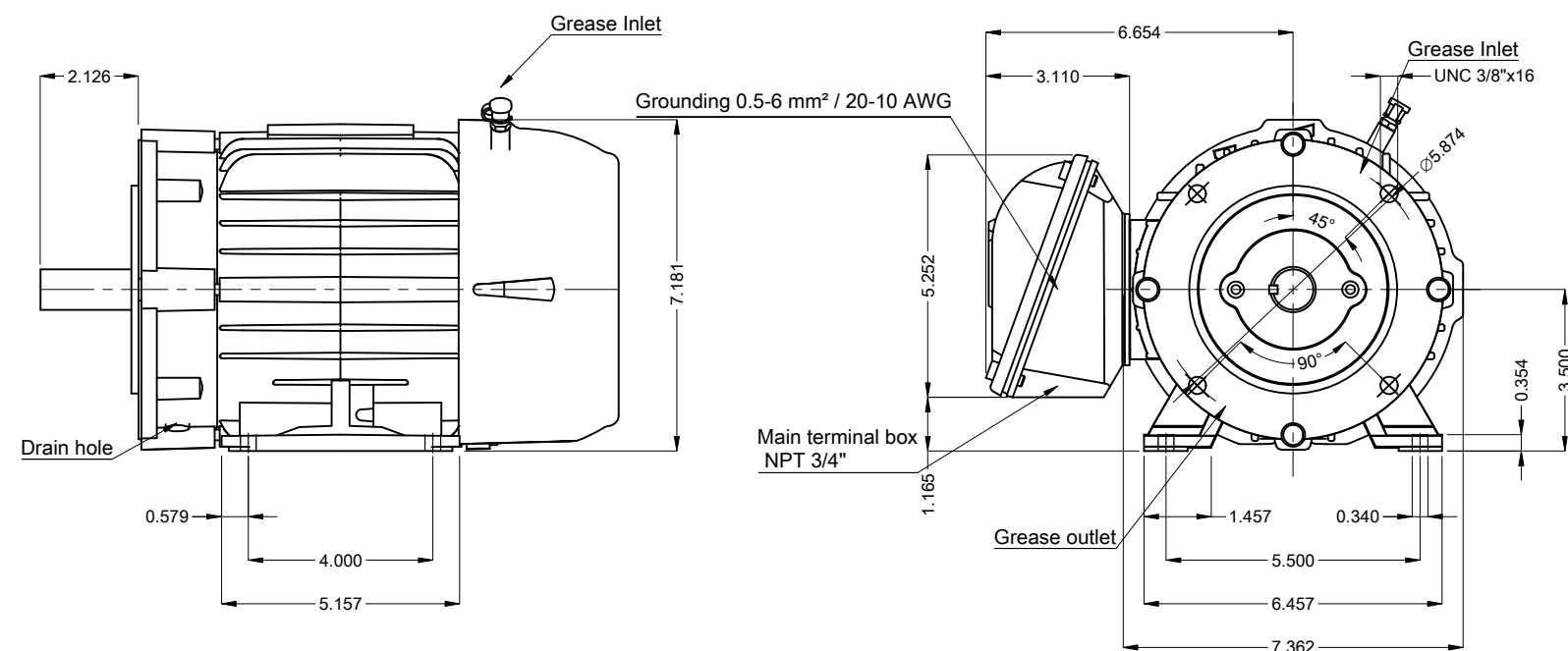


Performance : 575 V 60 Hz 4P

Rated current : 0.844 A
LRC : 11.5
Rated torque : 0.204 kgfm
Locked rotor torque : 645 %
Breakdown torque : 705 %
Rated speed : 1780 rpm

Moment of inertia (J) : 0.0049 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 2 Revision		
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0.5 HP 04 Poles 60 Hz										A
V.J. PAMENSKY CANADA INC.										
						Scale			1 : 4	
						PIRWBUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER			THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF. FRAME 143TC IP55 TEFC			PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE										
						SHEET		1 / 1		