

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 13662374

Frame	: 254/6TD	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 15 HP (11 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	: 13.8 A	Protection degree	: IP55
L. R. Amperes	: 92.4 A	Cooling method	: IC411 - TEFC
LRC	: 6.7x(Code G)	Mounting	: F-1
No load current	: 4.00 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3535 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 1.81 %	Starting method	: Direct On Line
Rated torque	: 3.08 kgfm	Approx. weight ³	: 126 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0530 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	89.5	91.0	91.0	Max. traction	: 63 kgf
Power Factor	0.00	0.77	0.85	0.88	Max. compression	: 188 kgf

		Drive end	Non drive end
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	19000 h	20000 h
Lubricant amount	:	13 g	9 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	20/10/2024			

LOAD PERFORMANCE CURVE

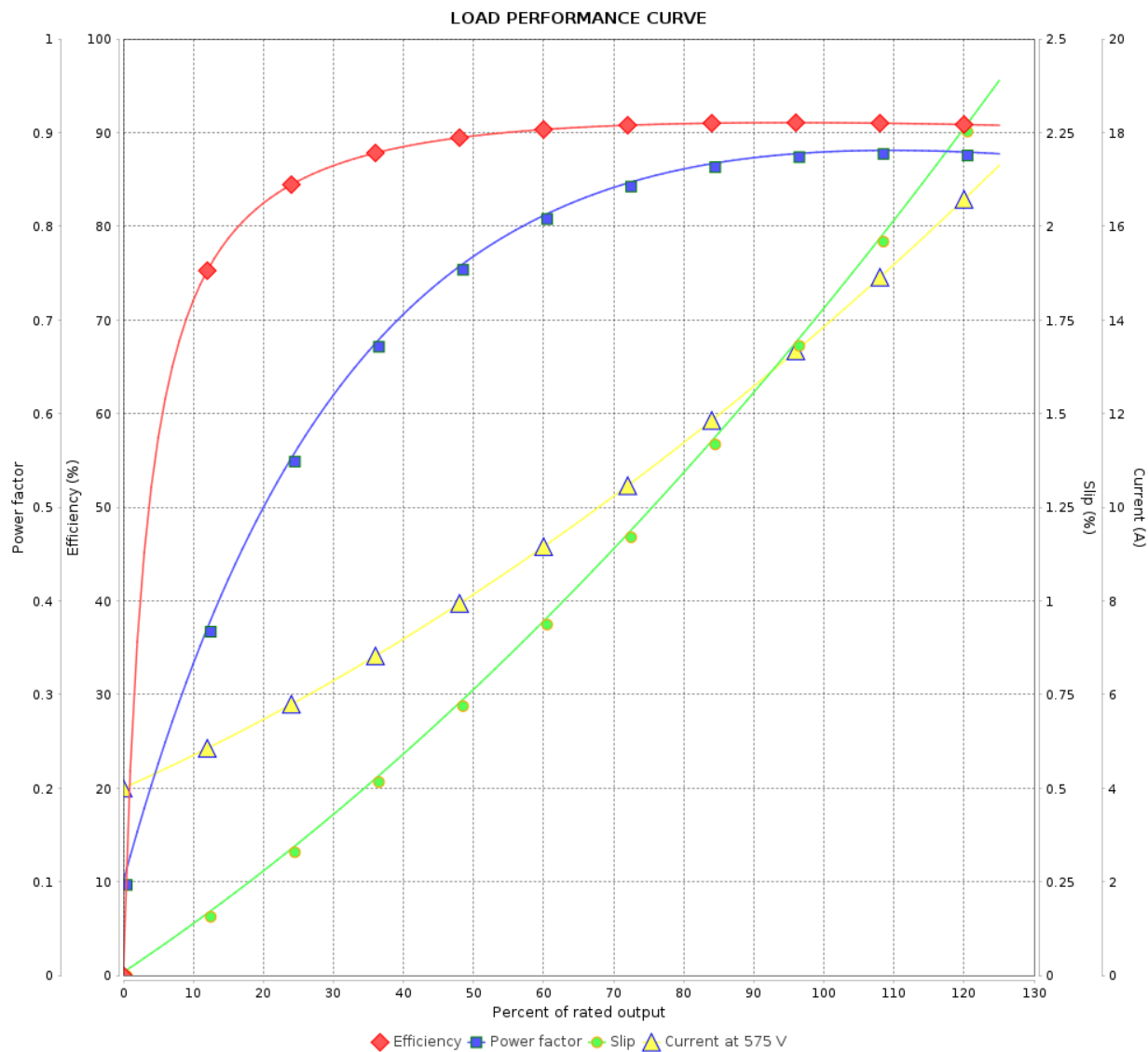
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Three-Phase

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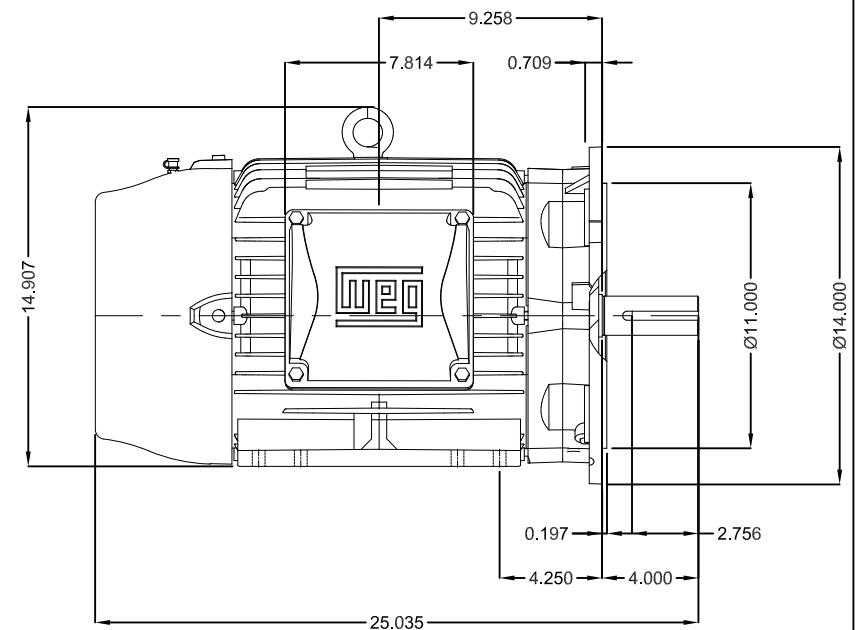
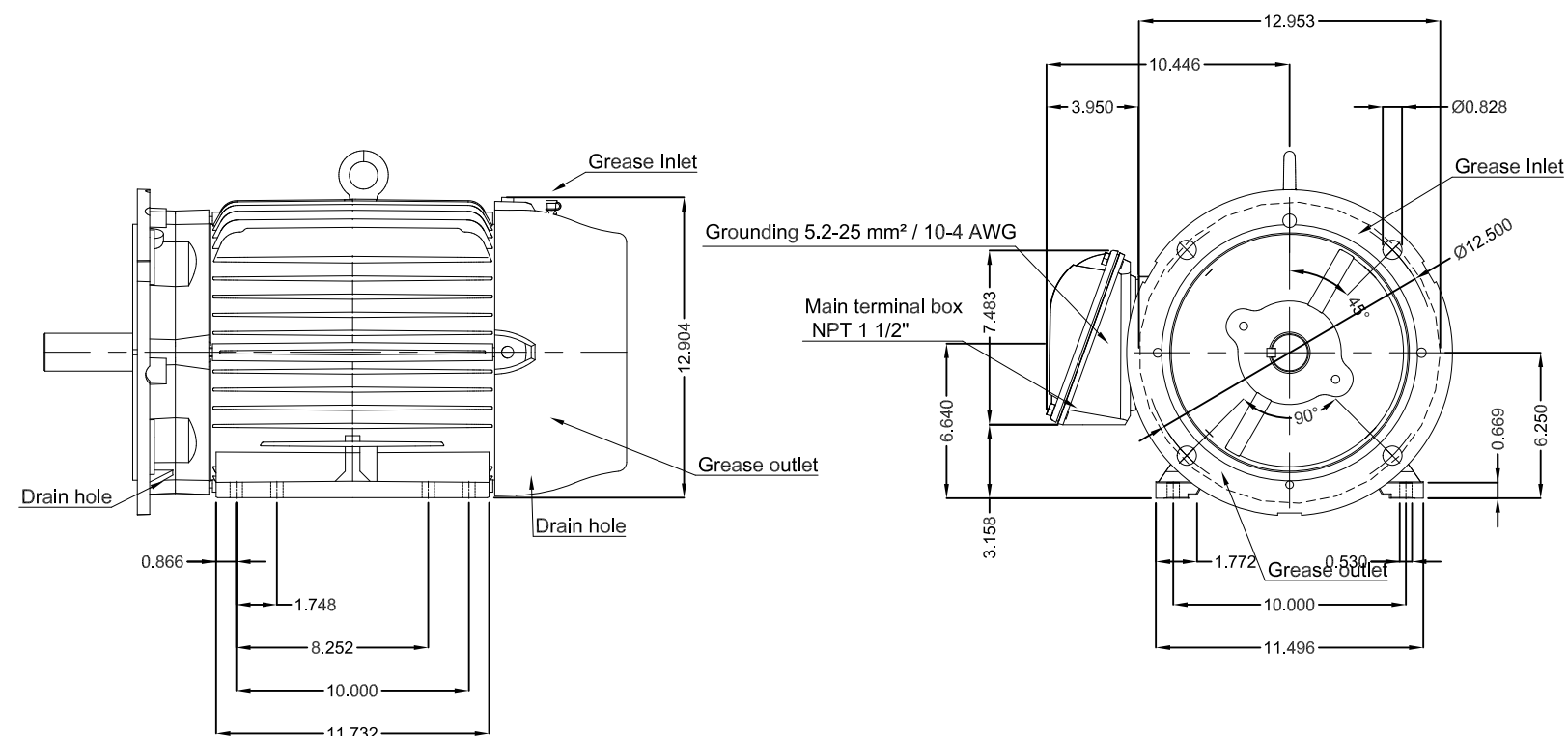




Performance : 575 V 60 Hz 2P

Rated current : 13.8 A
LRC : 6.7
Rated torque : 3.08 kgfm
Locked rotor torque : 200 %
Breakdown torque : 260 %
Rated speed : 3535 rpm

Moment of inertia (J) : 0.0530 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
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Date					



15 HP 02 Poles 60 Hz										A
						HYBRISUSER				00
ECM		LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 254/6TD IP55 TEFC				PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE										
						SHEET		/		