

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11418368

Frame	: 444/5T	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 100 HP (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	: 96.7 A	Protection degree	: IP55
L. R. Amperes	: 599 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: F-1
No load current	: 36.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1189 rpm	Noise level <sup>2</sup>	: 69.0 dB(A)
Slip	: 0.92 %	Starting method	: Direct On Line
Rated torque	: 61.0 kgfm	Approx. weight <sup>3</sup>	: 756 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 3.68 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.5	95.0	95.0	Max. traction	: 956 kgf
Power Factor	0.68	0.78	0.82	Max. compression	: 1713 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)
5.2	4.2	3.8	2.8	1.8	1.3	0.9

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	NU-319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	9000 h	16000 h
Lubricant amount	:	45 g	34 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	21/10/2024			

# LOAD PERFORMANCE CURVE

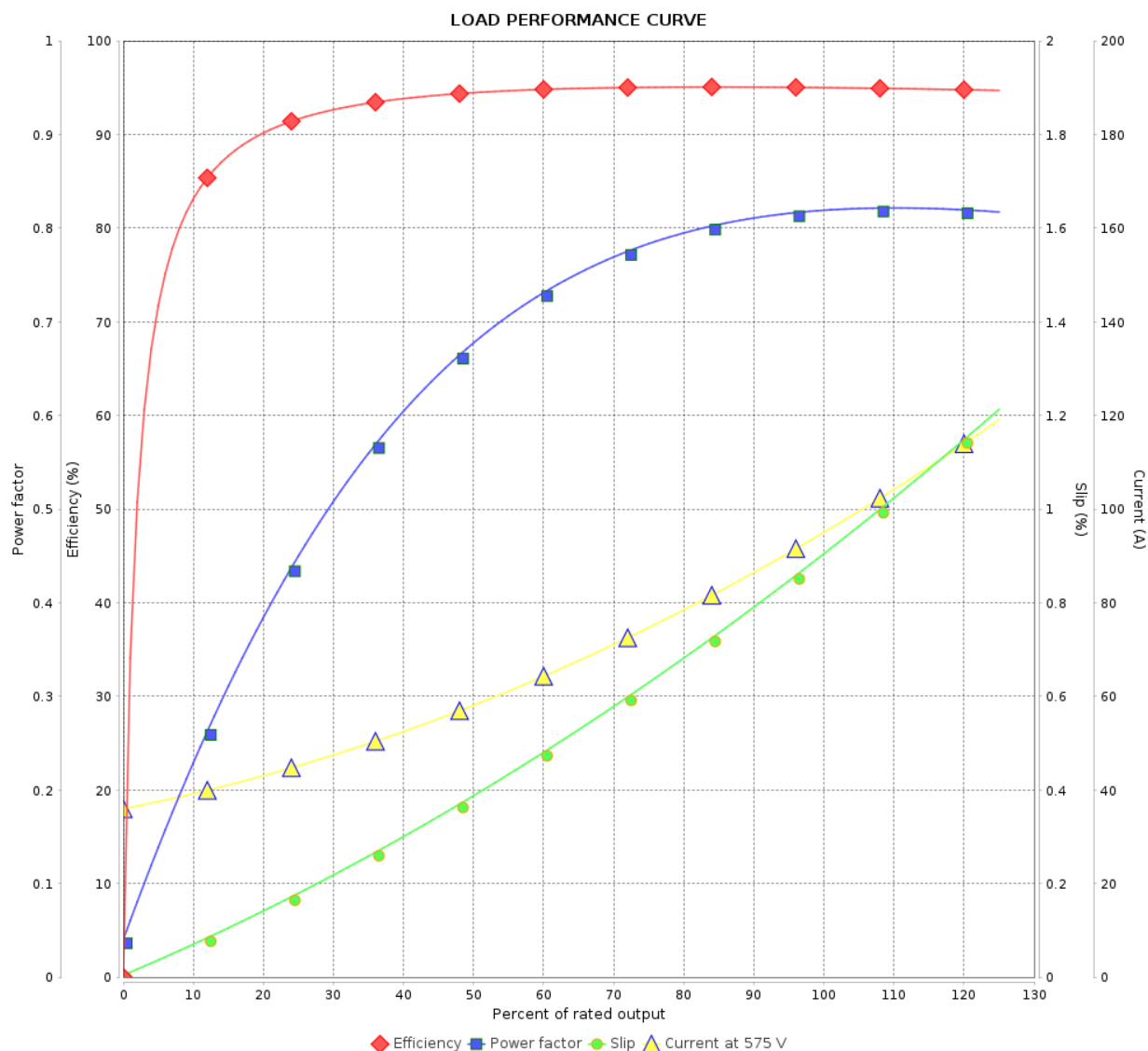
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Three-Phase

Product code : 11418368

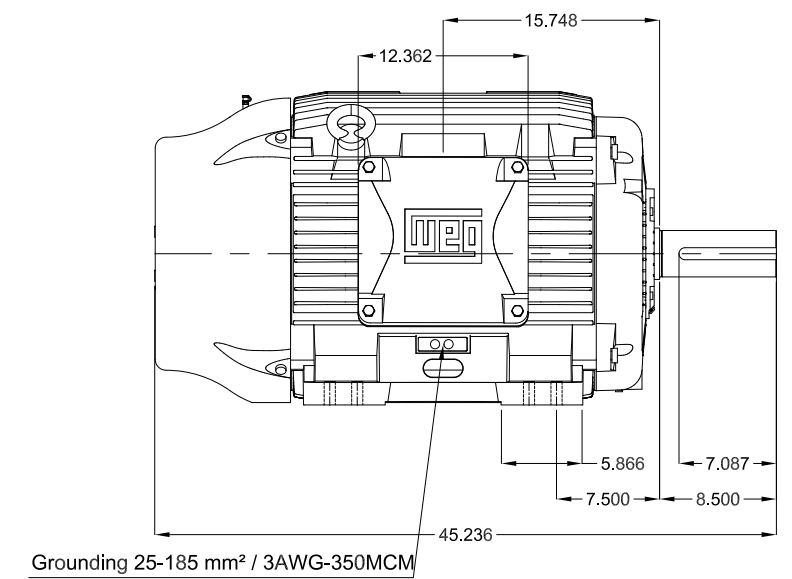
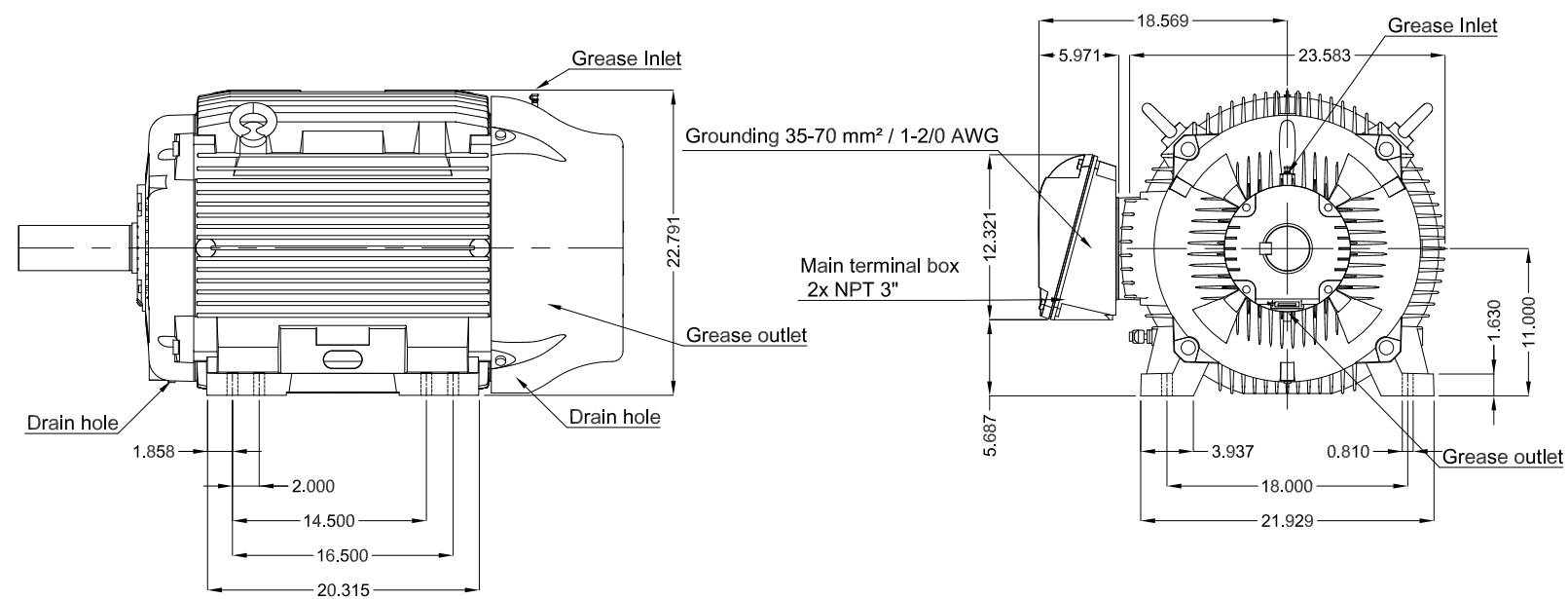




Performance : 575 V 60 Hz 6P

Rated current : 96.7 A  
LRC : 6.2  
Rated torque : 61.0 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 250 %  
Rated speed : 1189 rpm

Moment of inertia (J) : 3.68 kgm<sup>2</sup>  
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					



100 HP   06 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 444/5T IP55 TEFC			PREVIEW WDD   00				
CHECKED										
RELEASED										
REL. DATE										