

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase Product code : 15280258

Frame	: 444/5HP	Locked rotor time	: 48s (cold) 27s (hot)
Output	: 125 HP	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	: 111 A	Protection degree	: IP55
L. R. Amperes	: 724 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: W-6
No load current	: 36.8 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1785 rpm	Noise level ²	: 73.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 50.8 kgfm	Approx. weight ³	: 761 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.41 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads
Efficiency (%)	95.0	95.4	95.4	Max. traction
Power Factor	0.74	0.82	0.85	Max. compression

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)
4.5	3.4	3.0	2.4	1.4	0.9	0.6

	Drive end	Non drive end
Bearing type	: 6319 C3	: 6316 C3
Sealing	: Viton Lip Seal	: Viton Seal
Lubrication interval	: 4000 h	: 5000 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				
Checked by				
Date	29/10/2024			
			Page	Revision
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LOAD PERFORMANCE CURVE

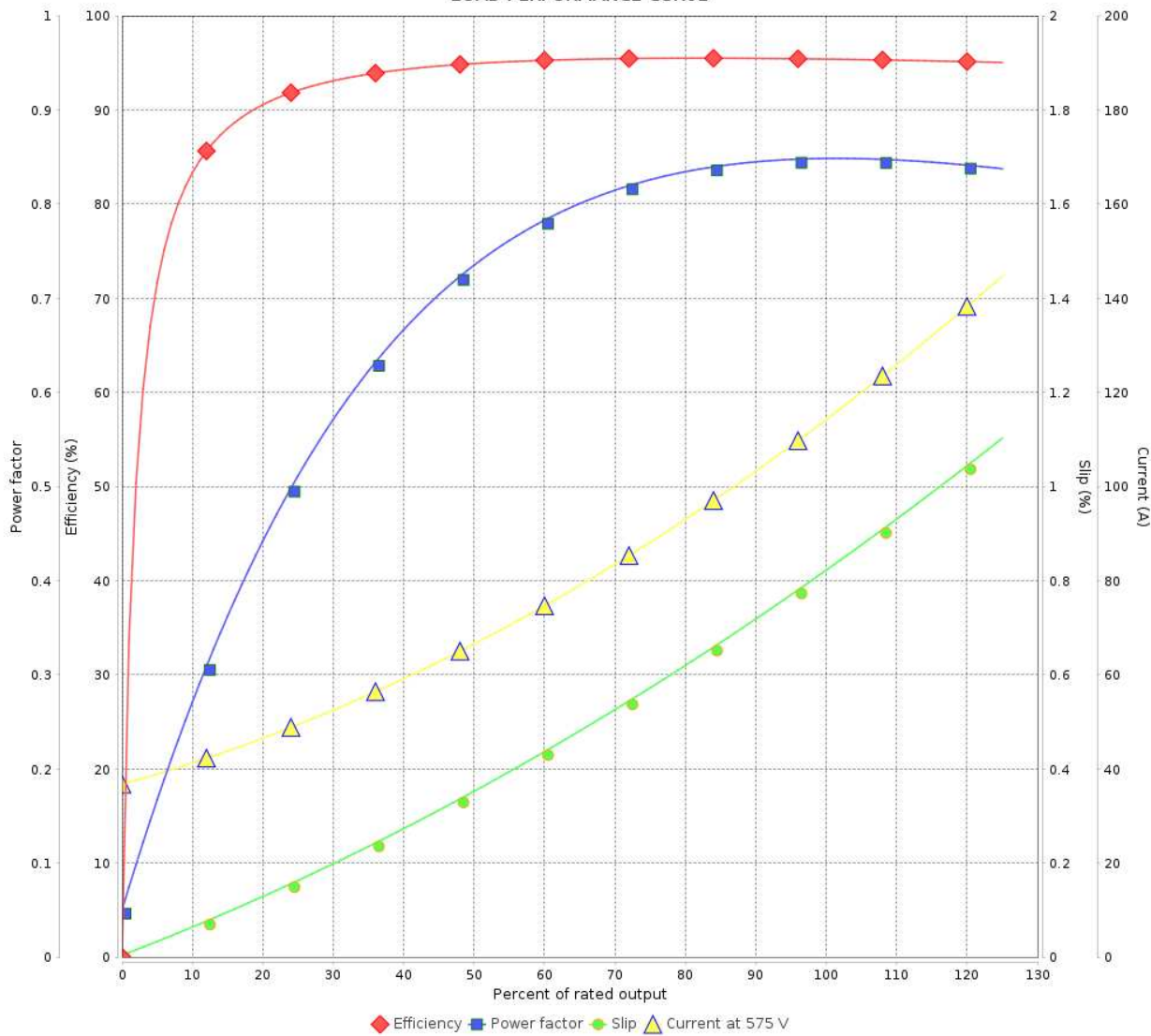
Three Phase Induction Motor - Squirrel Cage



Customer :

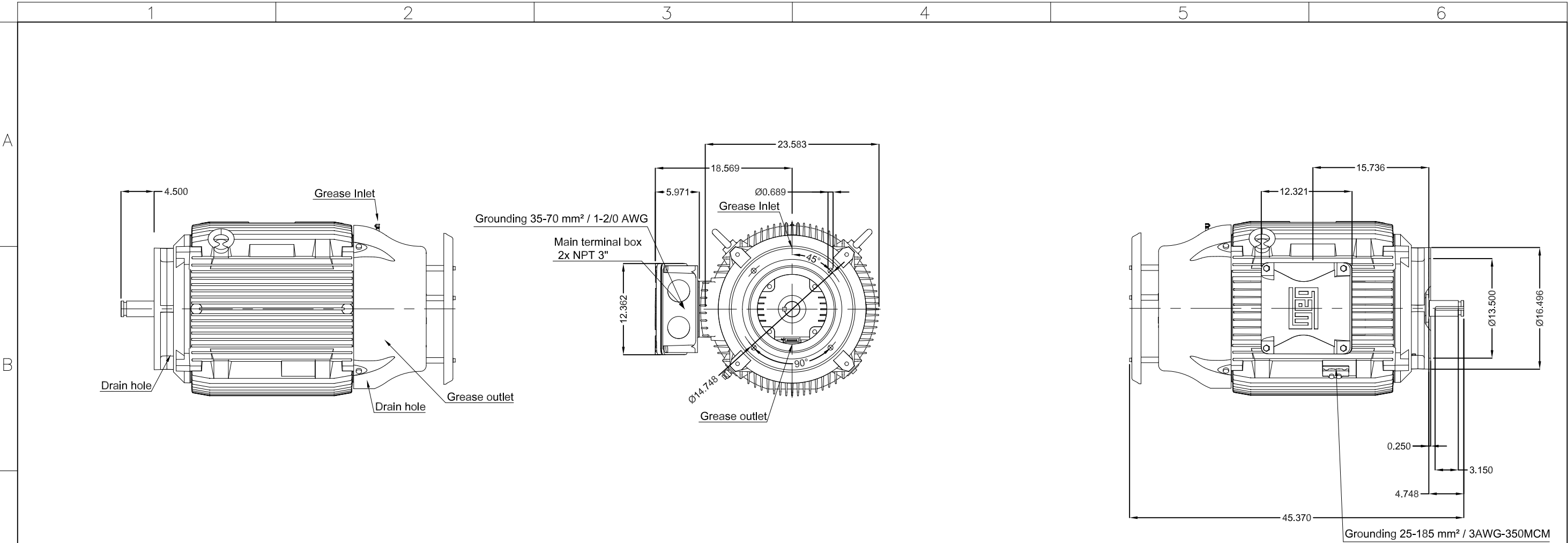
Product line : W22 P Base NEMA Premium Product code : 15280258
Efficiency Three-Phase

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P			
Rated current	: 111 A	Moment of inertia (J)	: 2.41 kgm ²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 50.8 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1785 rpm	Design	: B

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Date					
	29/10/2024				



Color RAL 5009

Painting plan 203A

Mounting NEMA W-6

Mounting V1

DE Shaft End

0.500

0.500

2.1250

1.845

DUNC 5/8"-11 WEG WPR-7339

R0.031

R0.031

Ø1.750

Ch.0.040

0.375

0.750

125 HP 04 Poles 60 Hz

A

ECM

LOC

SUMMARY OF MODIFICATIONS

EXECUTED

CHECKED

RELEASED

DATE

VER

HYBRISUSER

00

THREE PH. MOTOR W22 P. BASE NEMA PREM. EFF.

FRAME 444/5HP IP55 TEFC

PREVIEW

WDD 00

SHEET /

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Dimensions in inches

A3