

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase Product code : 12737211

Frame	: 445/7TSD	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 150 HP (110 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 176 A	Protection degree	: IP55
L. R. Amperes	: 1091 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: W-6
No load current	: 70.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1187 rpm	Noise level <sup>2</sup>	: 69.0 dB(A)
Slip	: 1.08 %	Starting method	: Direct On Line
Rated torque	: 91.6 kgfm	Approx. weight <sup>3</sup>	: 1058 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 5.63 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.0	95.4	95.8	Max. traction	: 1885 kgf
Power Factor	0.67	0.78	0.82	Max. compression	: 2943 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)
4.7	3.8	3.4	2.4	1.7	1.2	0.7
Drive end						Non drive end
						6314 C3
						Viton Oil Seal
						8000 h
						27 g
						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	30/10/2024				
				Page	Revision
				1 / 3	

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## Three Phase Induction Motor - Squirrel Cage



Customer :

### Space heater information

Voltage: 110 - 127 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	30/10/2024			Page 2 / 3	Revision

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



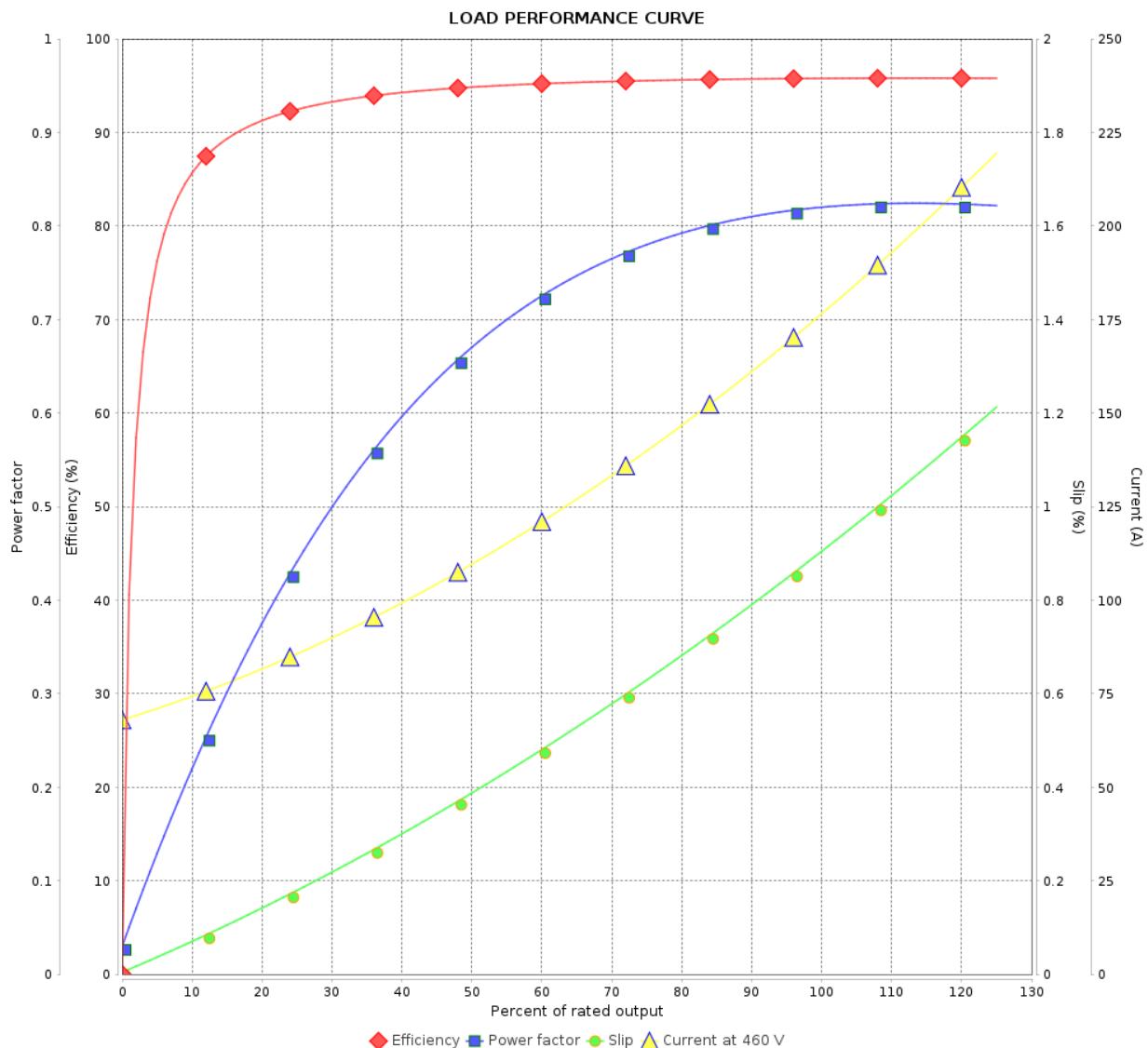
Customer :

Product line

: W22 NEMA Premium Efficiency  
Three-Phase

Product code :

12737211



Performance : 460 V 60 Hz 6P

Rated current	: 176 A	Moment of inertia (J)	: 5.63 kgm <sup>2</sup>
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 91.6 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1187 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	30/10/2024		Page 3 / 3	Revision

1

2

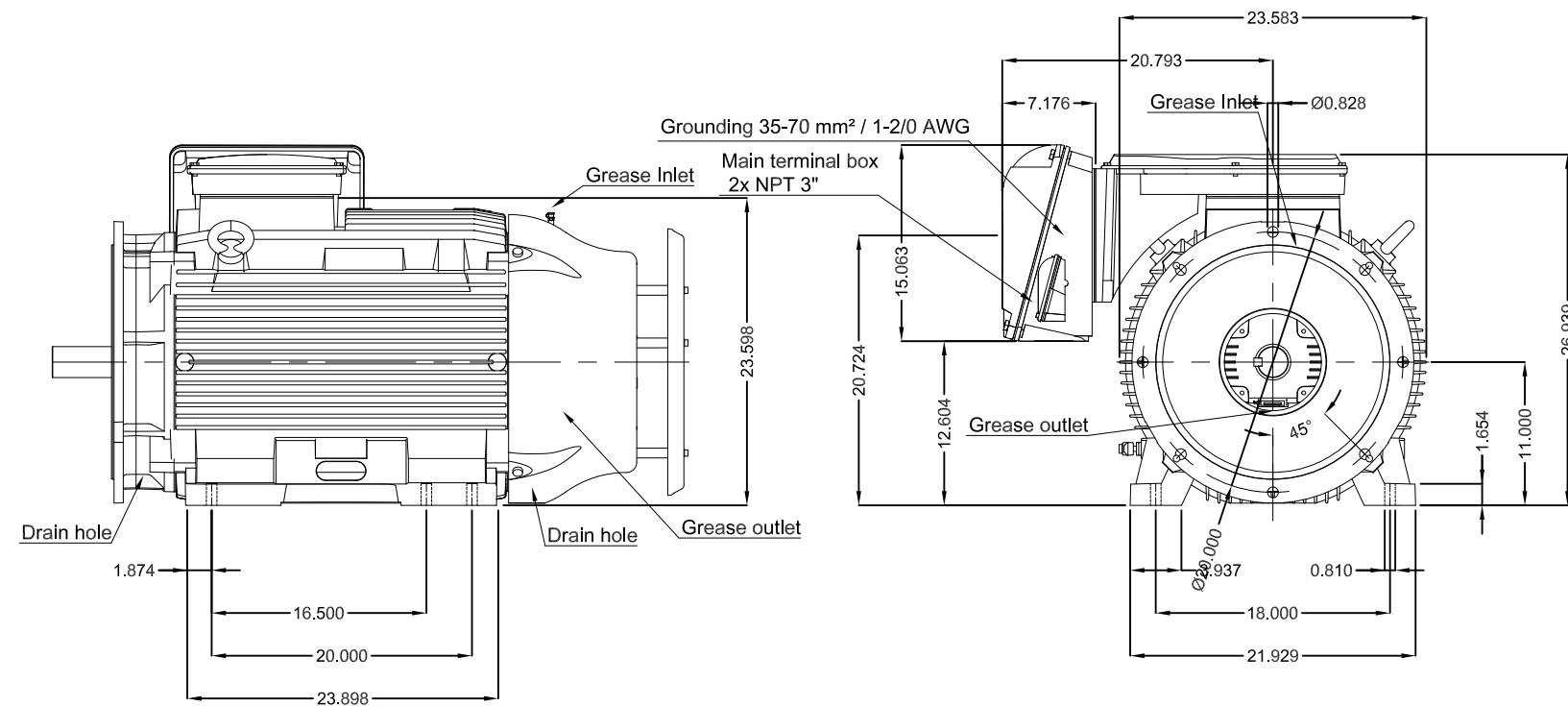
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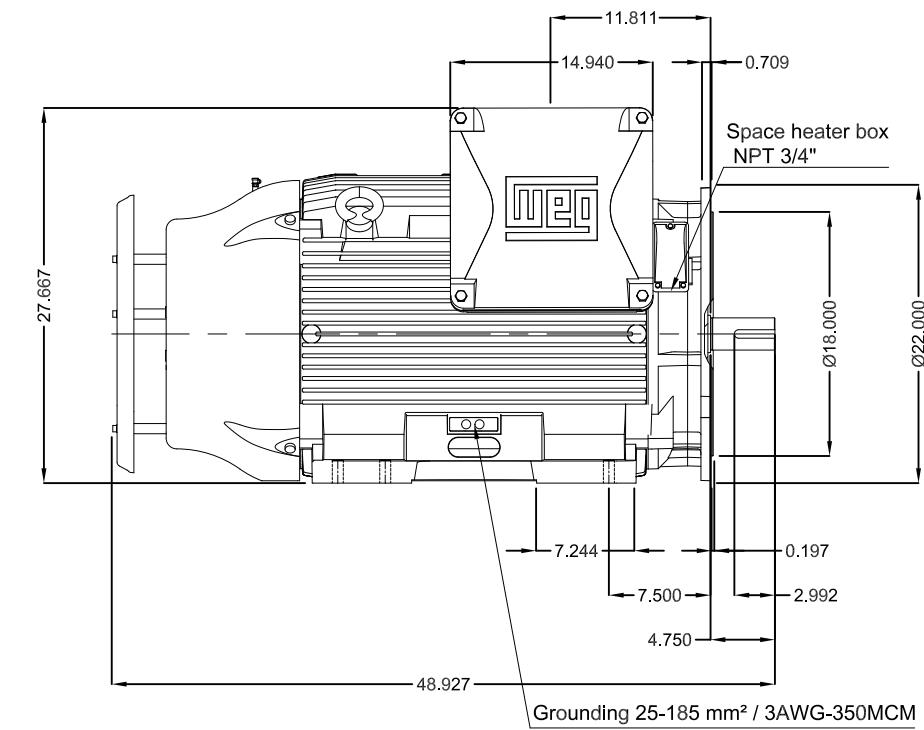
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6

A



B



C

D

E

150 HP 06 Poles 60 Hz

Dimensions in inches

Outlet leads directed to down when looking at shaft end

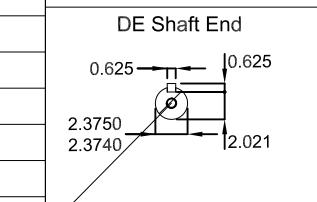
A

Without vertical jackscrews

TS shaft end

00

Space heaters 110 to 127 V



Sealing - Viton oil seal ring

Color RAL 5009

Painting plan 222E

Mounting NEMA W-6

Mounting V15R(D)

ECM		LOC	SUMMARY OF MODIFICATIONS			EXECUTED	HYBRISUSER	PREVIEW		
EXECUTED	HYBRISUSER	LOC	THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 445/7TSD IP55 TEFC			EXECUTED	CHECKED	RELEASED	DATE	VER
CHECKED	RELEASED	REL. DATE								

DUNC 3/4"-10 WEG WPR-7339

weg