

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :						
Product line		: W40 JP Pump NEMA Premium Efficiency Three-Phase		Product code : 15860076		
Frame	: 364/5JP	Locked rotor time	: 25s (cold) 14s (hot)			
Output	: 75 HP (55 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	: 68.4 A	Protection degree	: IP23			
L. R. Amperes	: 465 A	Cooling method	: IC01 - ODP			
LRC	: 6.8x(Code G)	Mounting	: F-1			
No load current	: 24.4 A	Rotation <sup>1</sup>	: Both (CW and CCW)			
Rated speed	: 1780 rpm	Noise level <sup>2</sup>	: 69.0 dB(A)			
Slip	: 1.11 %	Starting method	: Direct On Line			
Rated torque	: 30.6 kgfm	Approx. weight <sup>3</sup>	: 360 kg			
Locked rotor torque	: 220 %					
Breakdown torque	: 260 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.7059 kgm <sup>2</sup>					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	94.5	95.0	95.0	Max. traction : 714 kgf		
Power Factor	0.73	0.82	0.85	Max. compression : 1074 kgf		
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6212 Z C3		
Sealing	:	Without Bearing Seal		Without Bearing Seal		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	27 g		13 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					Page	Revision
Date	30/10/2024				1 / 2	

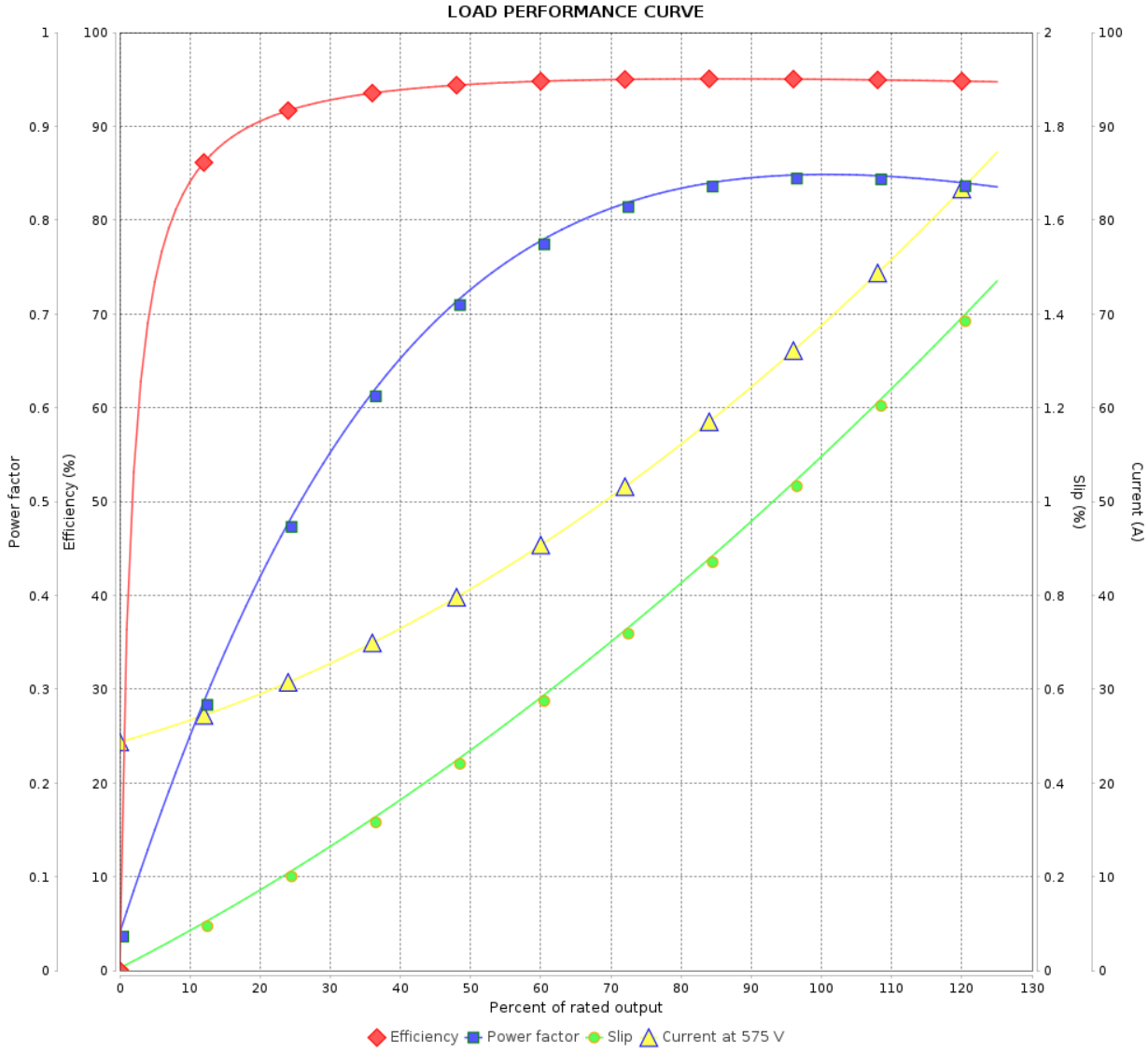
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

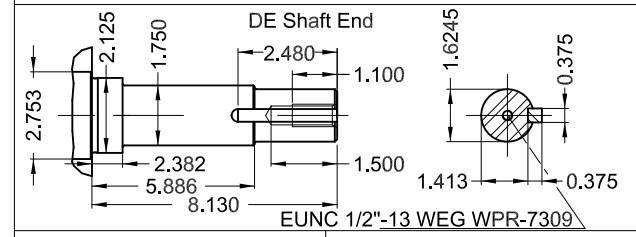
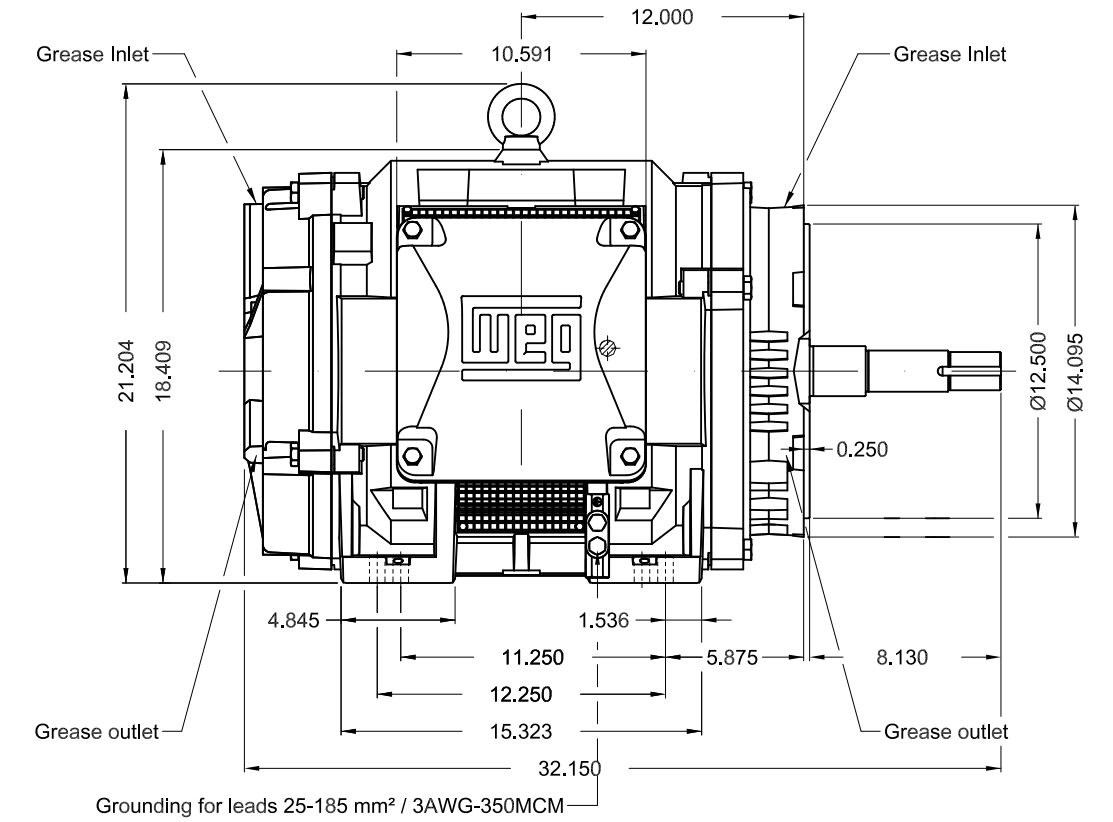
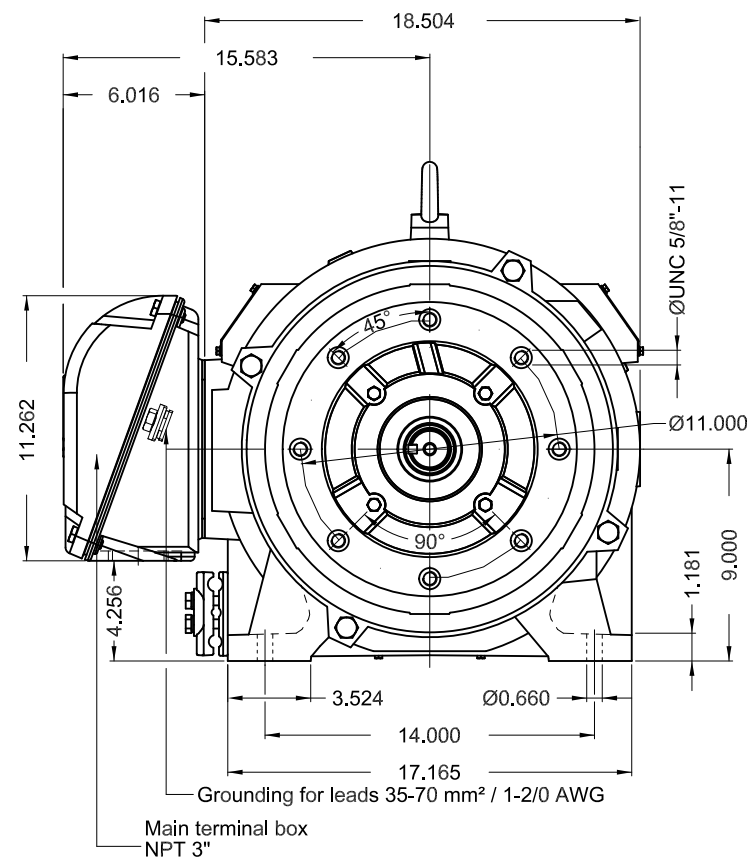
Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase      Product code : 15860076



Performance : 575 V 60 Hz 4P

Rated current	: 68.4 A	Moment of inertia (J)	: 0.7059 kgm <sup>2</sup>
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 30.6 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

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



75 HP 04 Poles 60 Hz										A	
										1:8	
										HYBRISUSER	00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED	HYBRISUSER	THREE PH. MOTOR W40 CLOSE COUPLED PUMP JP TYPE NEMA DREW / FF				PREVIEW					
CHECKED		FRAME 364/5JP IP23 ODP				WDD 00					
RELEASED						SHEET 1 / 1					
REL. DATE		WMO	Jaragua do Sul	Product Engineering							

Color RAL 5009  
 Painting plan 203A  
 Mounting NEMA F-1  
 Mounting B34R(D)

Dimensions in inches XME A3