DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 High Efficiency Three-Phase Product code : 16583197

Frame	: 324/6T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 50 HP (37 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	: 48.1 A	Protection degree	: IP23
L. R. Amperes	: 289 A	Cooling method	: IC01 - ODP
LRC	: 6.0x(Code G)	Mounting	: F-1
No load current	: 17.2 A	Rotation¹	: Both (CW and CCW)
Rated speed	: 1770 rpm	Starting method	: Direct On Line
Slip	: 1.67 %	Approx. weight³	: 226 kg
Rated torque	: 20.5 kgfm		
Locked rotor torque	: 200 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.2520 kgm²		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	92.4	93.0	93.0
Power Factor	0.67	0.78	0.83

Foundation loads

Max. traction	: 0 kgf
Max. compression	: 0 kgf

		Drive end	Non drive end
Bearing type	:	6312 Z C3	6211 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	11 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	14/07/2026		1 / 2	

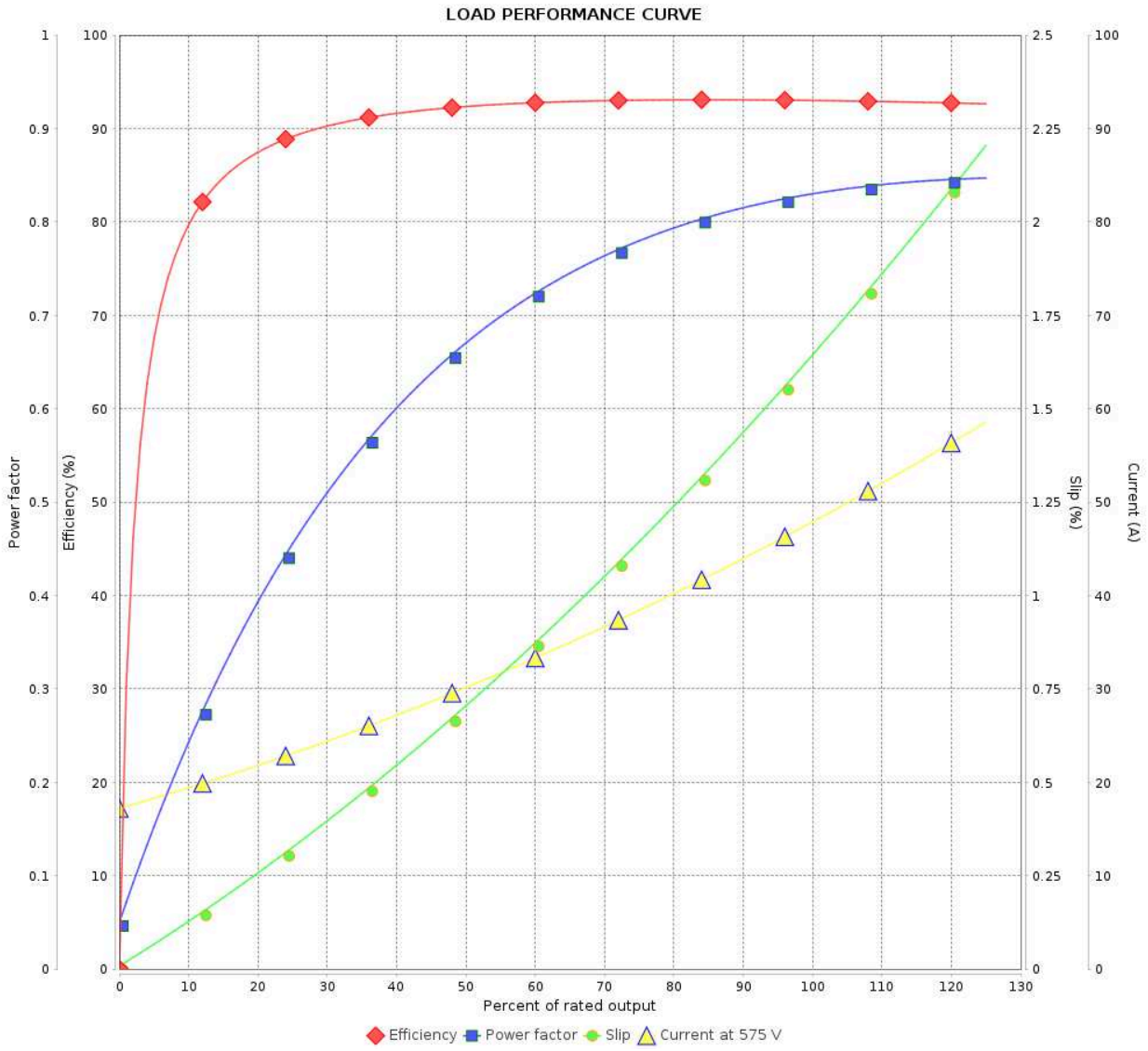
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 High Efficiency Three-Phase Product code : 16583197

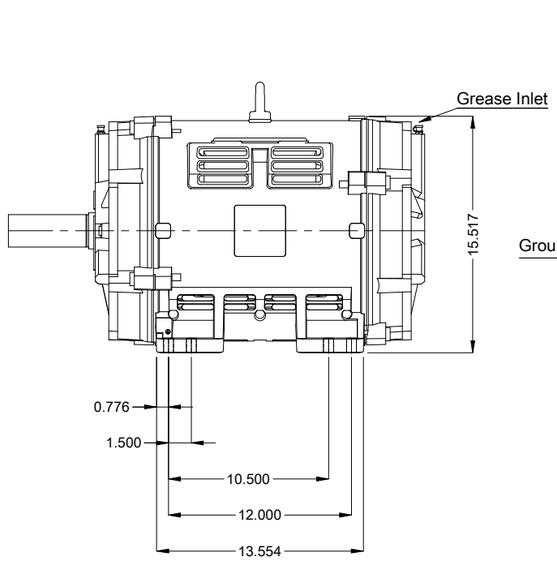


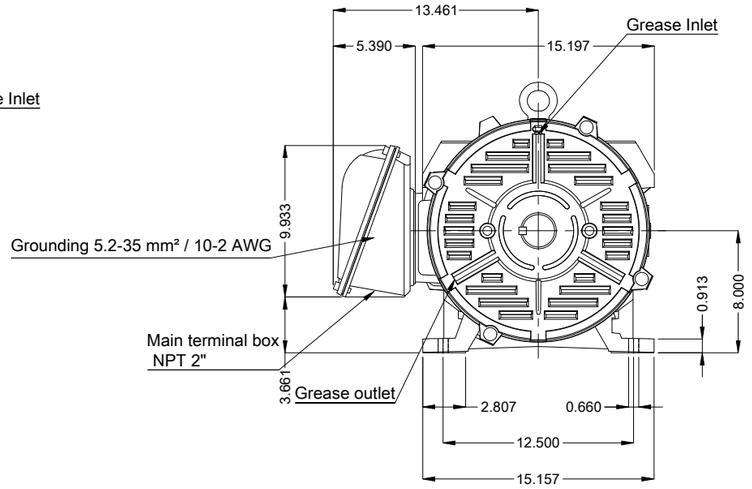
Performance	: 575 V 60 Hz 4P		
Rated current	: 48.1 A	Moment of inertia (J)	: 0.2520 kgm²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 20.5 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

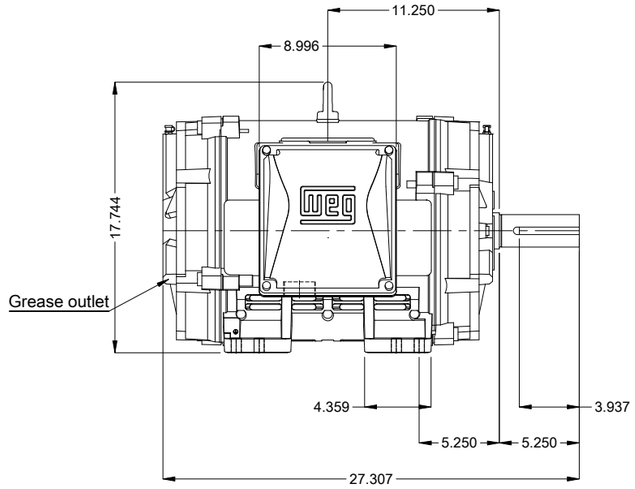
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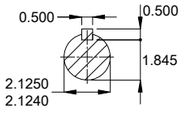






Color RAL 5009	
Painting plan 203A	
Mounting NEMA F-1	
Mounting B3R(D)	

DE Shaft End



50 HP 04 Poles 60 Hz | A

Scale 1 : 10

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W40 HIGH EFF.
FRAME 324/6T IP23 ODP

PREVIEW
WDD 00
SHEET 1 / 1

Dimensions in inches

A3

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