

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14490990

Frame	: 324TS	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 50 HP (37 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 47.3 A	Protection degree	: IP23
L. R. Amperes	: 288 A	Cooling method	: IC01 - ODP
LRC	: 6.1x(Code G)	Mounting	: F-1
No load current	: 16.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3555 rpm	Starting method	: Direct On Line
Slip	: 1.25 %	Approx. weight ³	: 204 kg
Rated torque	: 10.2 kgfm		
Locked rotor torque	: 170 %		
Breakdown torque	: 200 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1269 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads
Efficiency (%)	91.7	92.4	92.4	Max. traction : 0 kgf
Power Factor	0.74	0.82	0.85	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	: 19658 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
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Date	14/07/2026			

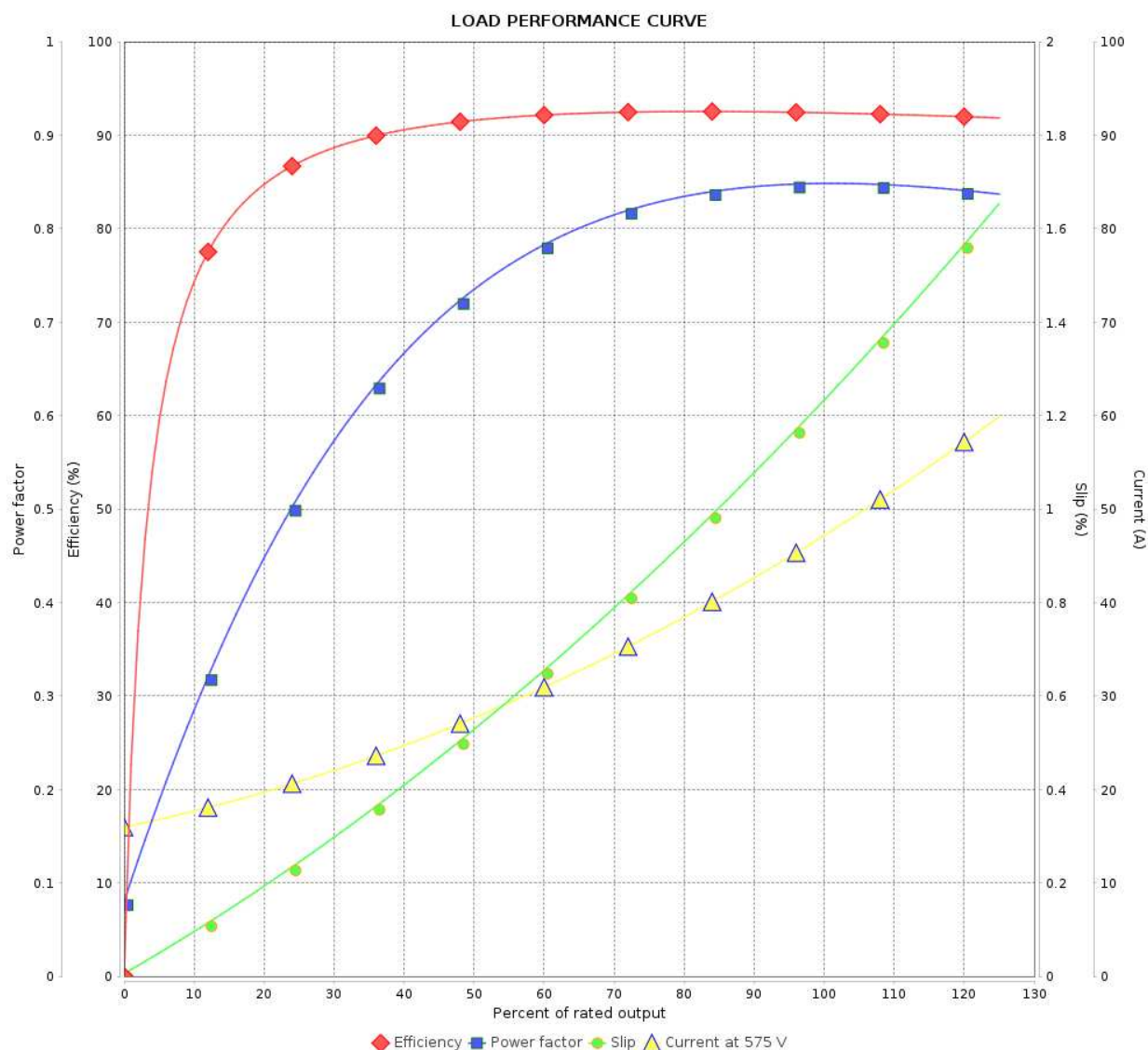
LOAD PERFORMANCE CURVE

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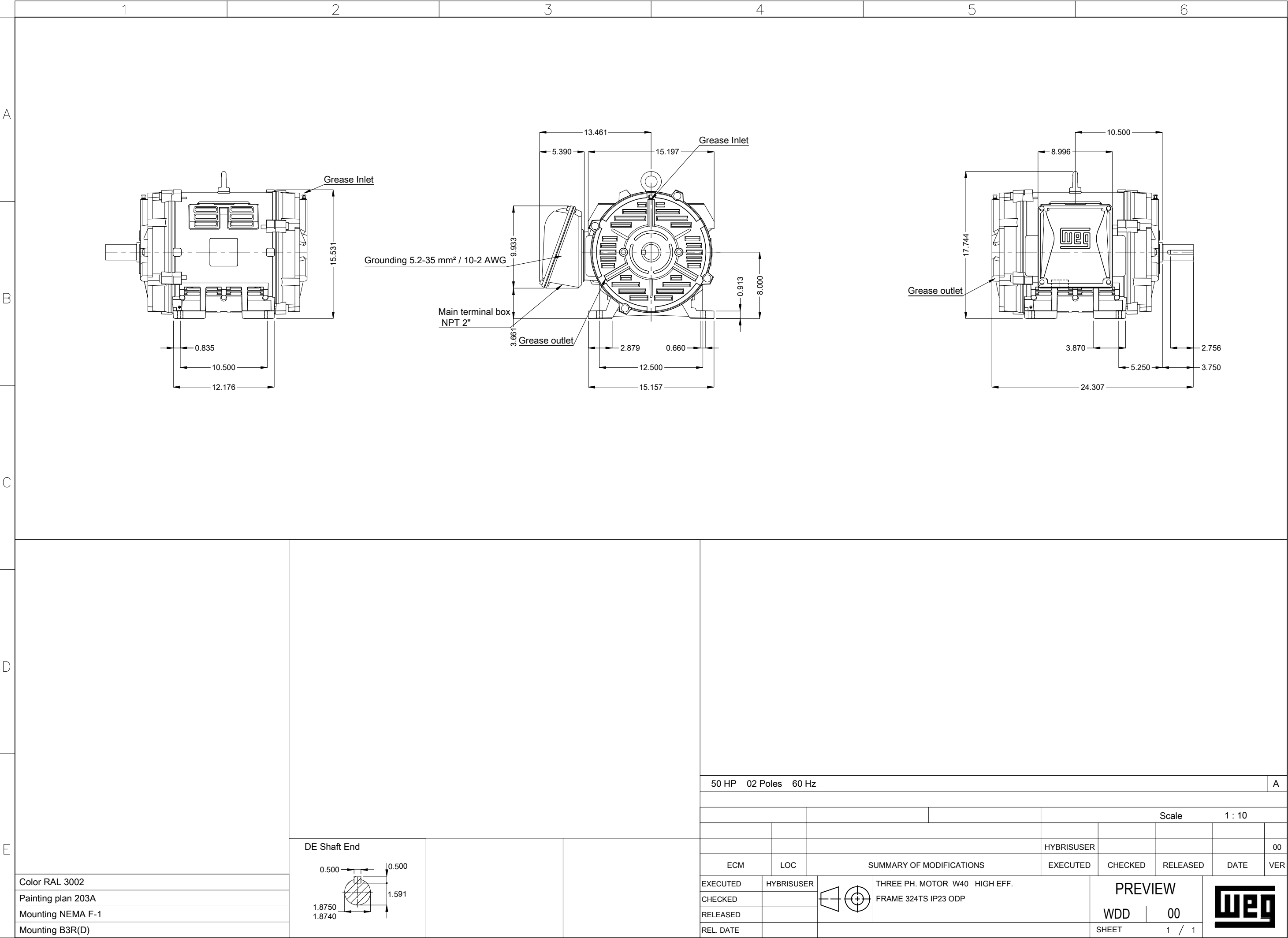


Performance : 575 V 60 Hz 2P

Rated current : 47.3 A
LRC : 6.1
Rated torque : 10.2 kgfm
Locked rotor torque : 170 %
Breakdown torque : 200 %
Rated speed : 3555 rpm

Moment of inertia (J) : 0.1269 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
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