

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12761144

Frame	: 180L	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 30 HP (22 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 28.8 A	Protection degree	: IP55
L. R. Amperes	: 274 A	Cooling method	: IC411 - TEFC
LRC	: 9.5	Mounting	: B35L(E)
No load current	: 13.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1778 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 1.22 %	Starting method	: Direct On Line
Rated torque	: 12.2 kgfm	Approx. weight ³	: 206 kg
Locked rotor torque	: 360 %		
Breakdown torque	: 380 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.2272 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.0	92.4	93.6	Max. traction	: 564 kgf
Power Factor	0.65	0.76	0.82	Max. compression	: 769 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)
6.5	5.0	4.4	3.8	2.4	1.8	1.2

	Drive end	Non drive end
Bearing type	: 6311 C3	6211 C3
Sealing	: V'Ring	V'Ring
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 18 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		Page 1 / 2 Revision		
Checked by				
Date	25/10/2024			

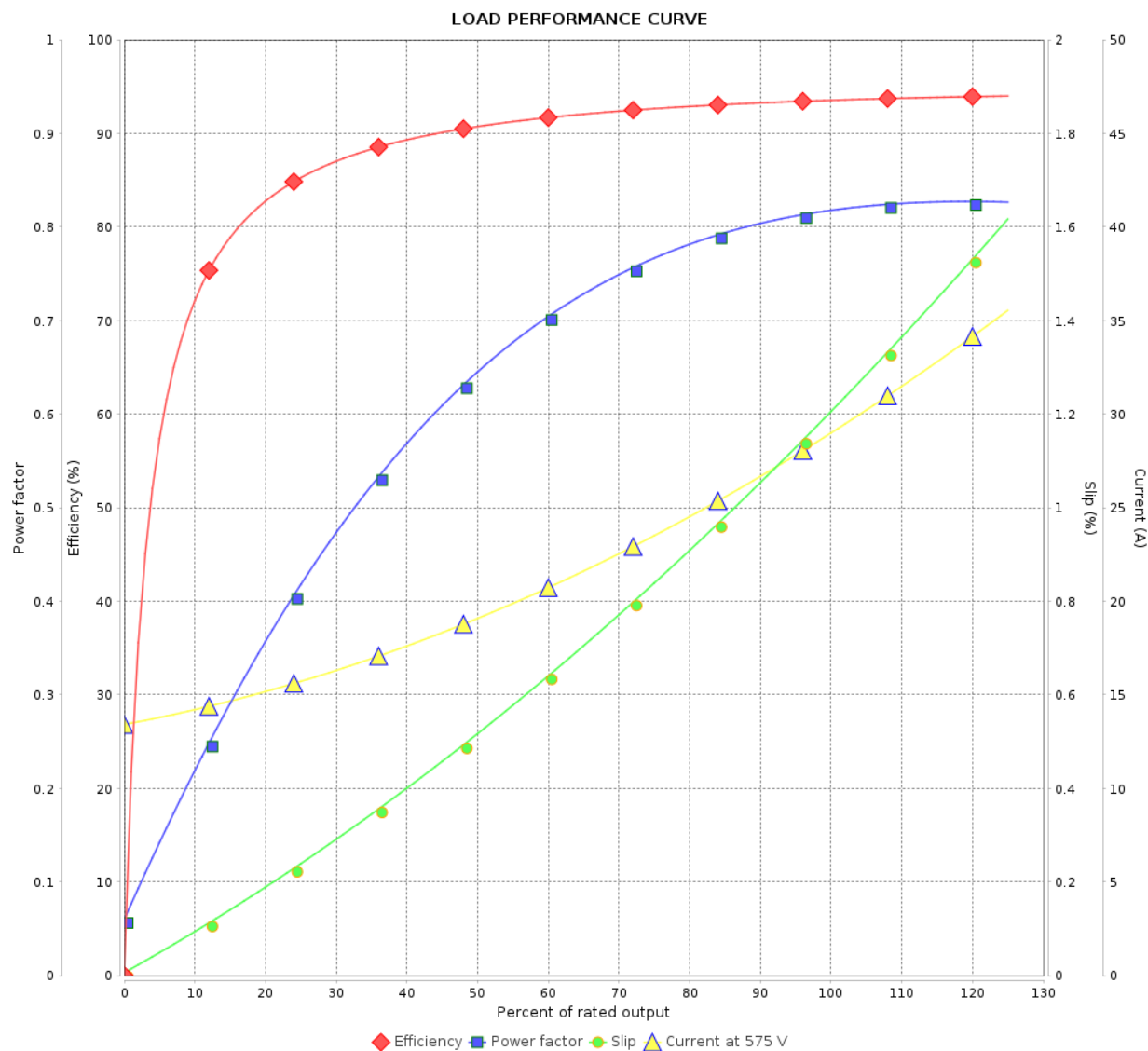
LOAD PERFORMANCE CURVE

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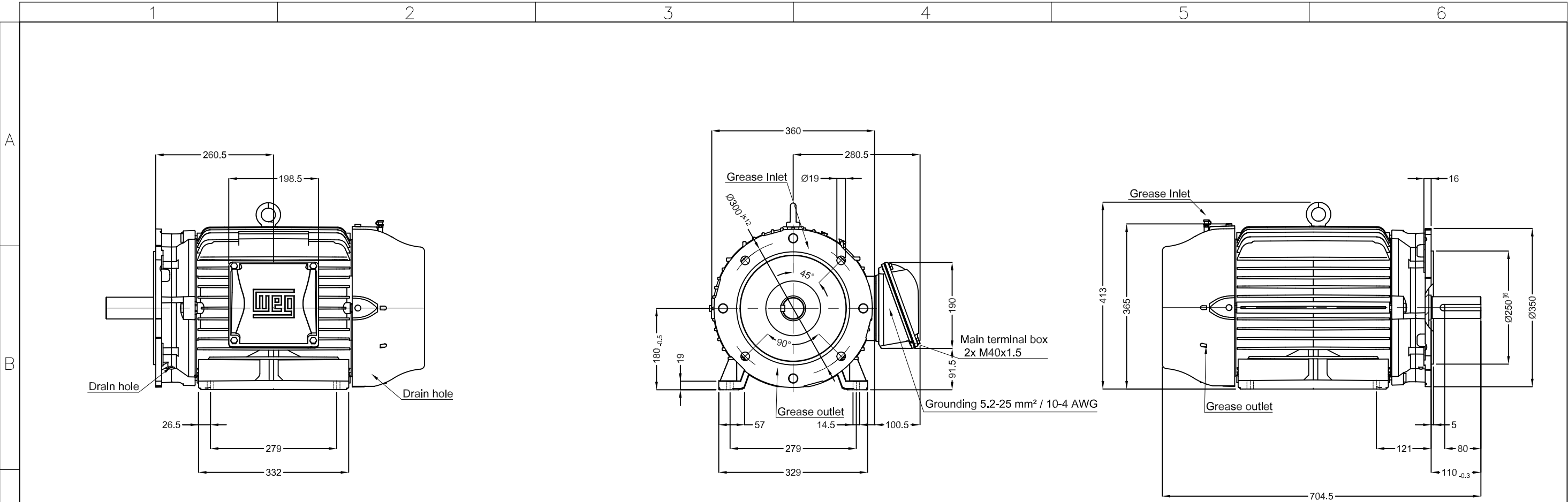


Performance : 575 V 60 Hz 4P

Rated current : 28.8 A
LRC : 9.5
Rated torque : 12.2 kgfm
Locked rotor torque : 360 %
Breakdown torque : 380 %
Rated speed : 1778 rpm

Moment of inertia (J) : 0.2272 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : N

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Without vertical jackscrews		Color RAL 5009		Painting plan 203A		Mounting B35L(E)		30 HP 04 Poles 60 Hz		A	
DE Shaft End				HYBRISUSER		00		ECM		LOC	
EXECUTED		HYBRISUSER		THREE PH. MOTOR W22 IE3		FRAME 180L IP55 TEFC		EXECUTED		CHECKED	
RELEASED		REL. DATE		SUMMARY OF MODIFICATIONS		EXECUTED		RELEASED		DATE	
PREVIEW		WDD		00		SHEET		/		WEG	