

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase Product code : 14893854

Frame	: 286TSC	Locked rotor time	: 77s (cold) 43s (hot)
Output	: 30 HP (22 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	: 27.0 A	Protection degree	: IP55
L. R. Amperes	: 181 A	Cooling method	: IC411 - TEFC
LRC	: 6.7x(Code G)	Mounting	: F-1
No load current	: 6.00 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3545 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 1.53 %	Starting method	: Direct On Line
Rated torque	: 6.14 kgfm	Approx. weight ³	: 232 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1297 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	92.4	93.0	93.0	Max. traction	: 93 kgf
Power Factor	0.78	0.86	0.88	Max. compression	: 328 kgf

	Drive end	Non drive end
Bearing type	: 6311 C3	6211 C3
Sealing	: Oil Seal	Lip Seal
Lubrication interval	: 11517 h	14226 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.

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Revision

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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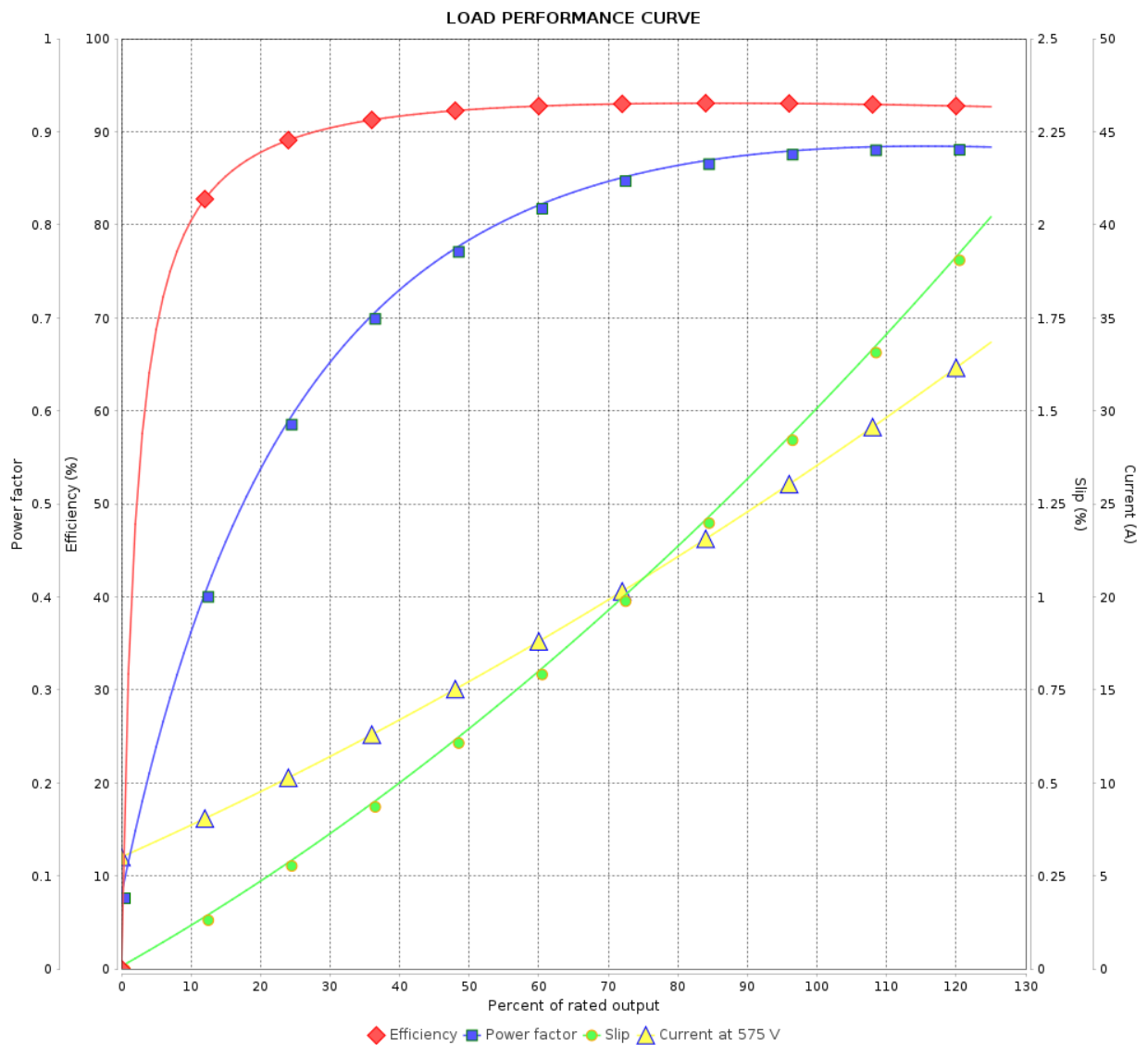
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA
Premium Efficiency Three-Phase

Product code : 14893854

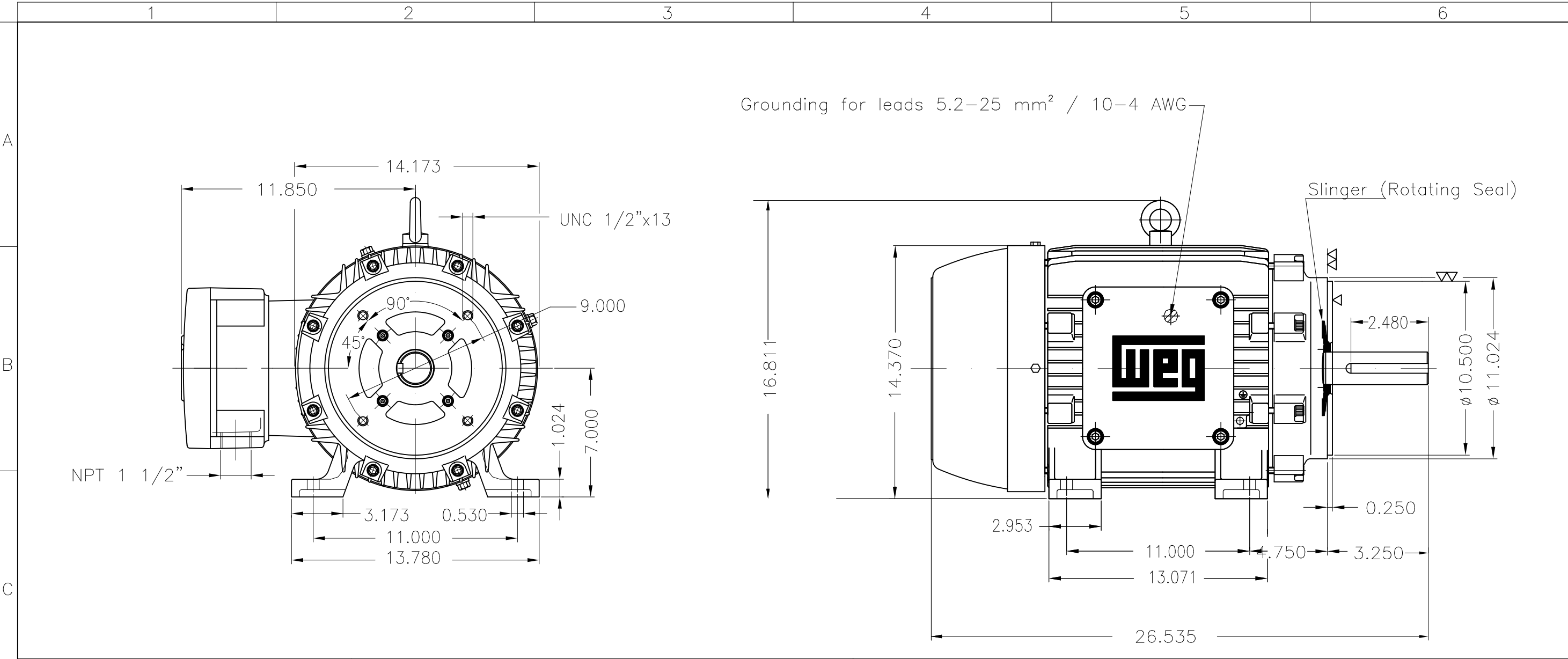


Performance : 575 V 60 Hz 2P

Rated current : 27.0 A
LRC : 6.7
Rated torque : 6.14 kgfm
Locked rotor torque : 250 %
Breakdown torque : 240 %
Rated speed : 3545 rpm

Moment of inertia (J) : 0.1297 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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