

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11989184

Frame	: 180M	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 30 HP (22 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 28.2 A	Protection degree	: IP55
L. R. Amperes	: 273 A	Cooling method	: IC411 - TEFC
LRC	: 9.7	Mounting	: B35L(E)
No load current	: 11.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3565 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 0.97 %	Starting method	: Direct On Line
Rated torque	: 6.11 kgfm	Approx. weight ³	: 188 kg
Locked rotor torque	: 380 %		
Breakdown torque	: 380 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1192 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.2	91.7	92.4	Max. traction	: 238 kgf
Power Factor	0.71	0.81	0.85	Max. compression	: 426 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)
7.7	5.5	4.8	4.7	2.7	2.0	1.2

	Drive end	Non drive end
Bearing type	: 6311 C3	6211 C3
Sealing	: V'Ring	V'Ring
Lubrication interval	: 14000 h	17000 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
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Date	25/10/2024			

LOAD PERFORMANCE CURVE

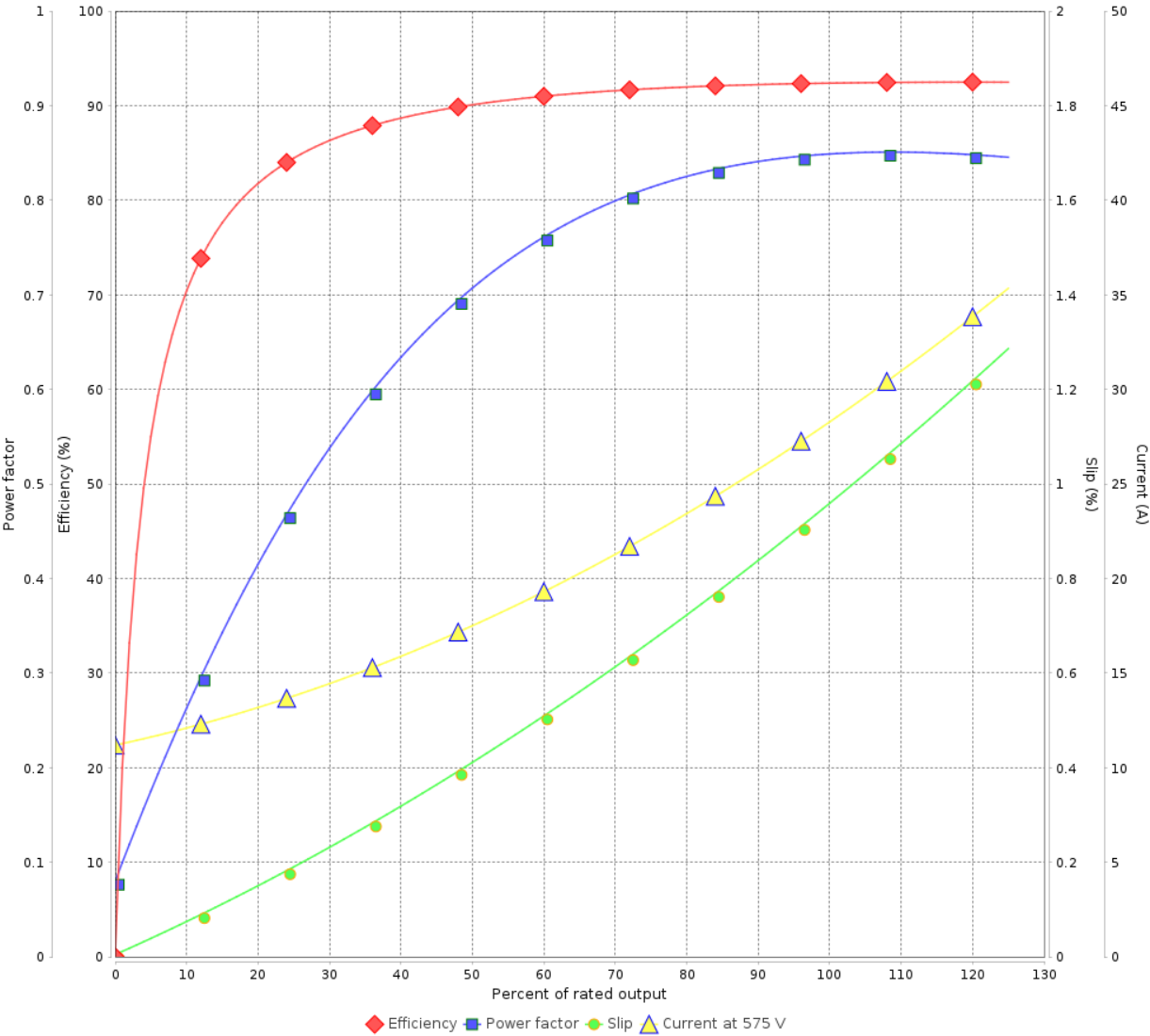
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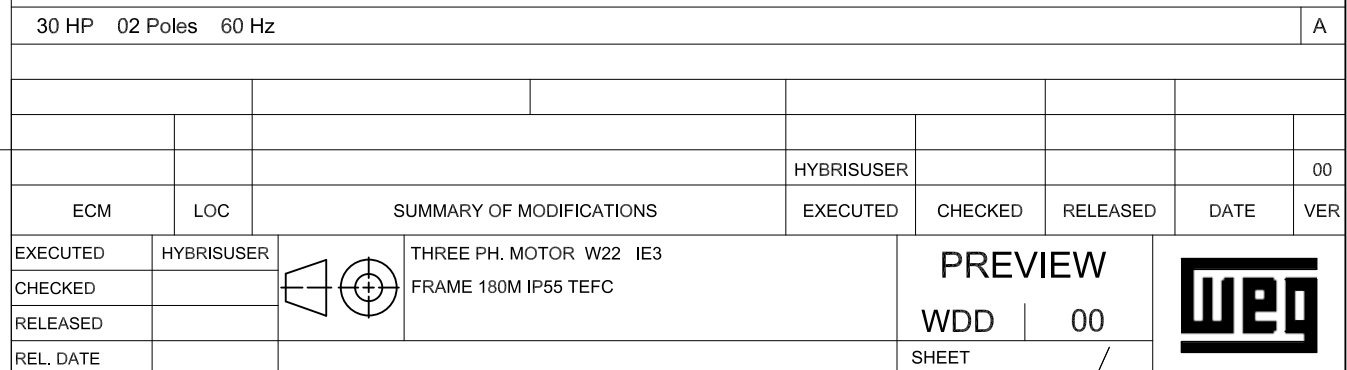
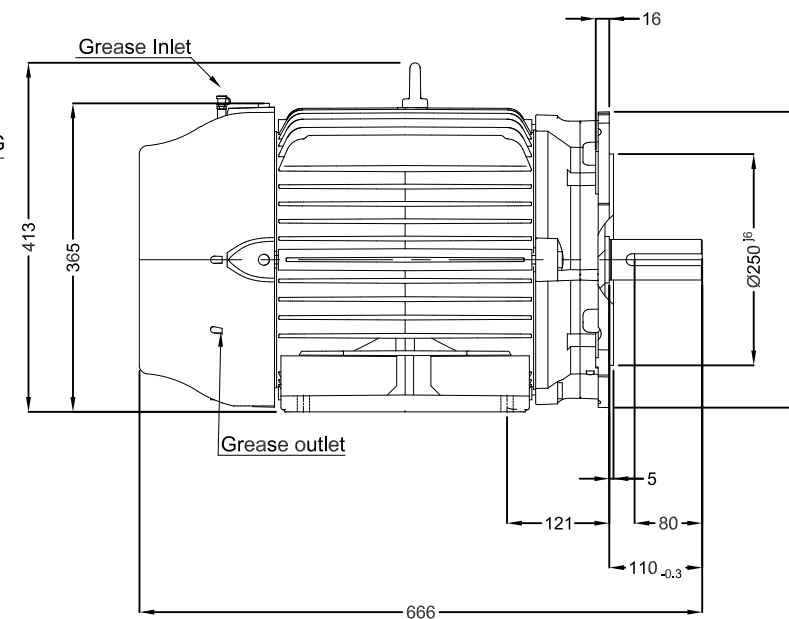
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Performance : 575 V 60 Hz 2P			
Rated current	: 28.2 A	Moment of inertia (J)	: 0.1192 kgm²
LRC	: 9.7	Duty cycle	: S1
Rated torque	: 6.11 kgfm	Insulation class	: F
Locked rotor torque	: 380 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3565 rpm	Design	: N

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