

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase Product code : 15367681

Frame	: 286HPH	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 19.3 A	Protection degree	: IP55
L. R. Amperes	: 120 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: W-6
No load current	: 7.60 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1175 rpm	Noise level ²	: 59.0 dB(A)
Slip	: 2.08 %	Starting method	: Direct On Line
Rated torque	: 12.4 kgfm	Approx. weight ³	: 193 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.3861 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.0	91.7	91.7	Max. traction	: 0 kgf
Power Factor	0.70	0.80	0.85	Max. compression	: 0 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)
8.5	7.1	6.9	4.6	3.2	2.3	1.7

	Drive end	Non drive end
Bearing type	: 6314 C3	6211 C3
Sealing	: V'Ring	V'Ring
Lubrication interval	: 17000 h	20000 h
Lubricant amount	: 27 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				
Date	08/07/2026		Page 1 / 2	Revision

LOAD PERFORMANCE CURVE

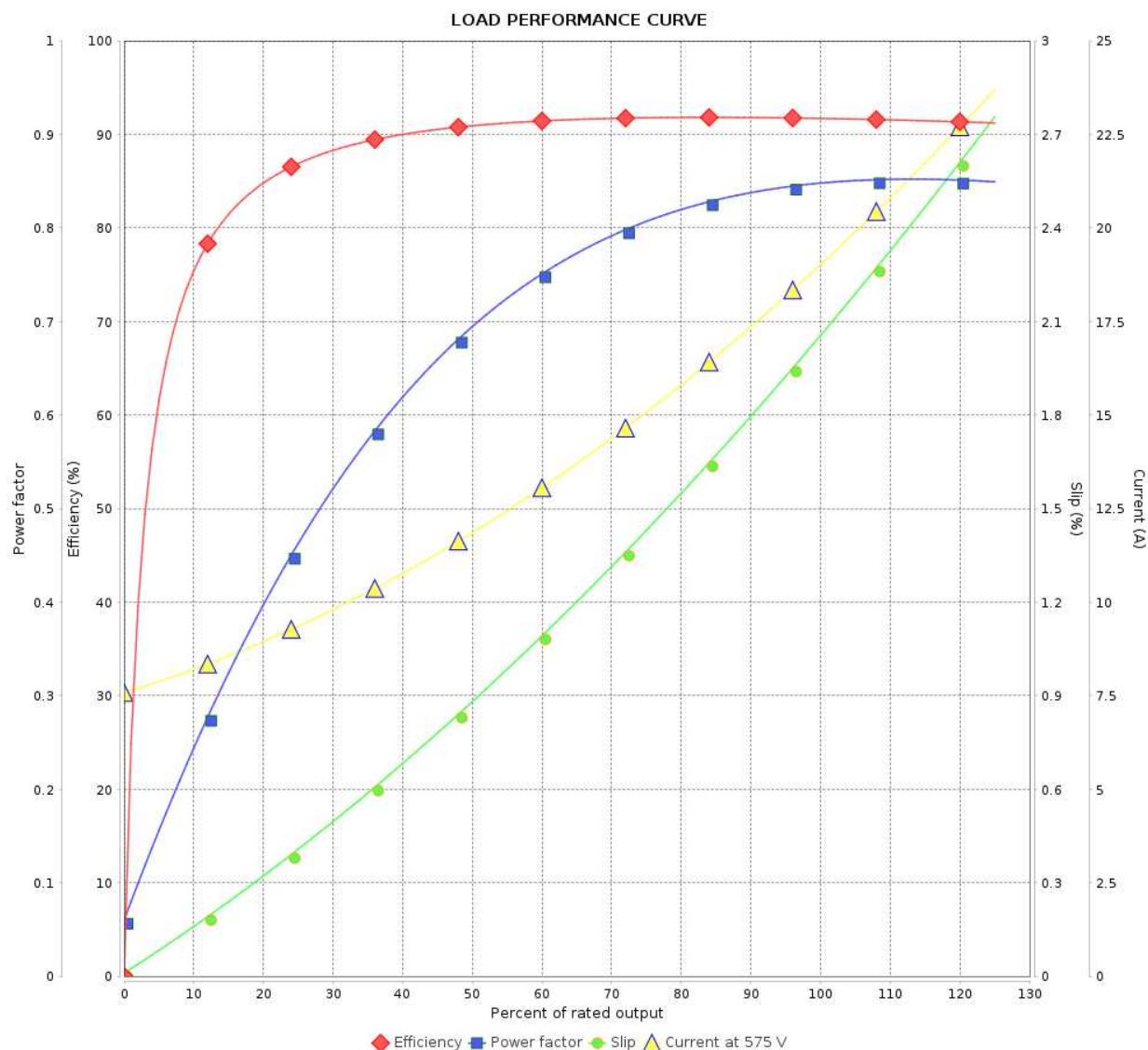
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Efficiency Three-Phase

Product code : 15367681

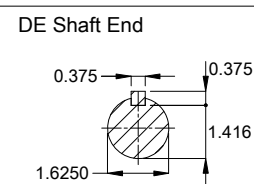
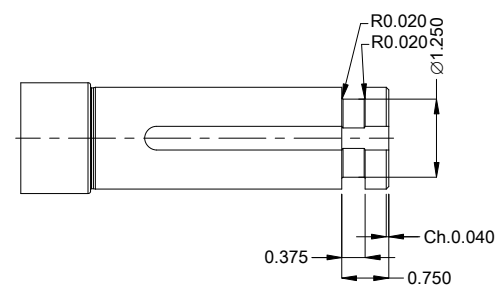
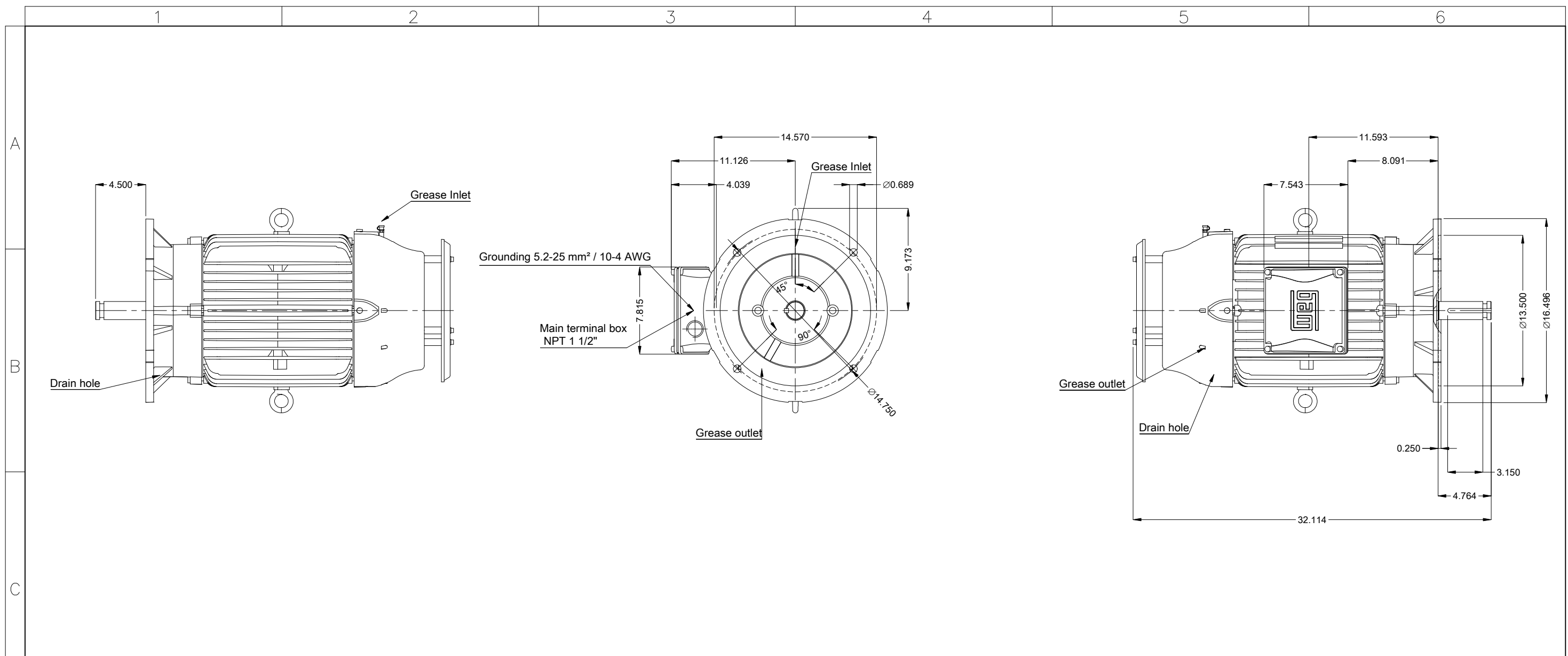


Performance : 575 V 60 Hz 6P

Rated current : 19.3 A
LRC : 6.2
Rated torque : 12.4 kgfm
Locked rotor torque : 229 %
Breakdown torque : 260 %
Rated speed : 1175 rpm

Moment of inertia (J) : 0.3861 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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Performed by				Page 2 / 2Revision	
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20 HP 06 Poles 60 Hz										A
						Scale				1 : 9
						HYBRISUSER				00
ECM		LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 P. BASE NEMA PREM. EFF. FRAME 286HPH IP55 TEFC				PREVIEW			
CHECKED										
RELEASED										
REL. DATE										
						SHEET		1 / 1		