

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase Product code : 17386197

Frame	: 182/4TC	Locked rotor time	: 64s (cold) 36s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 3.15 A	Protection degree	: IP55
L. R. Amperes	: 26.1 A	Cooling method	: IC411 - TEFC
LRC	: 8.3x(Code K)	Mounting	: F-1
No load current	: 1.61 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1765 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 1.23 kgfm	Approx. weight ³	: 42.0 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0167 kgm ²		
Design	: A		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	87.5	88.5	91.0	Max. traction	: 67 kgf
Power Factor	0.00	0.62	0.71	0.77	Max. compression	: 109 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)
9.3	7.1	6.5	5.3	3.3	2.5	1.7

	Drive end	Non drive end
Bearing type	: 6207 ZZ	: 6206 ZZ
Sealing	: V'Ring	: V'Ring
Lubrication interval	: 0 h	: 0 h
Lubricant amount	: 0 g	: 0 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	02/07/2026		Page 1 / 2	Revision

LOAD PERFORMANCE CURVE

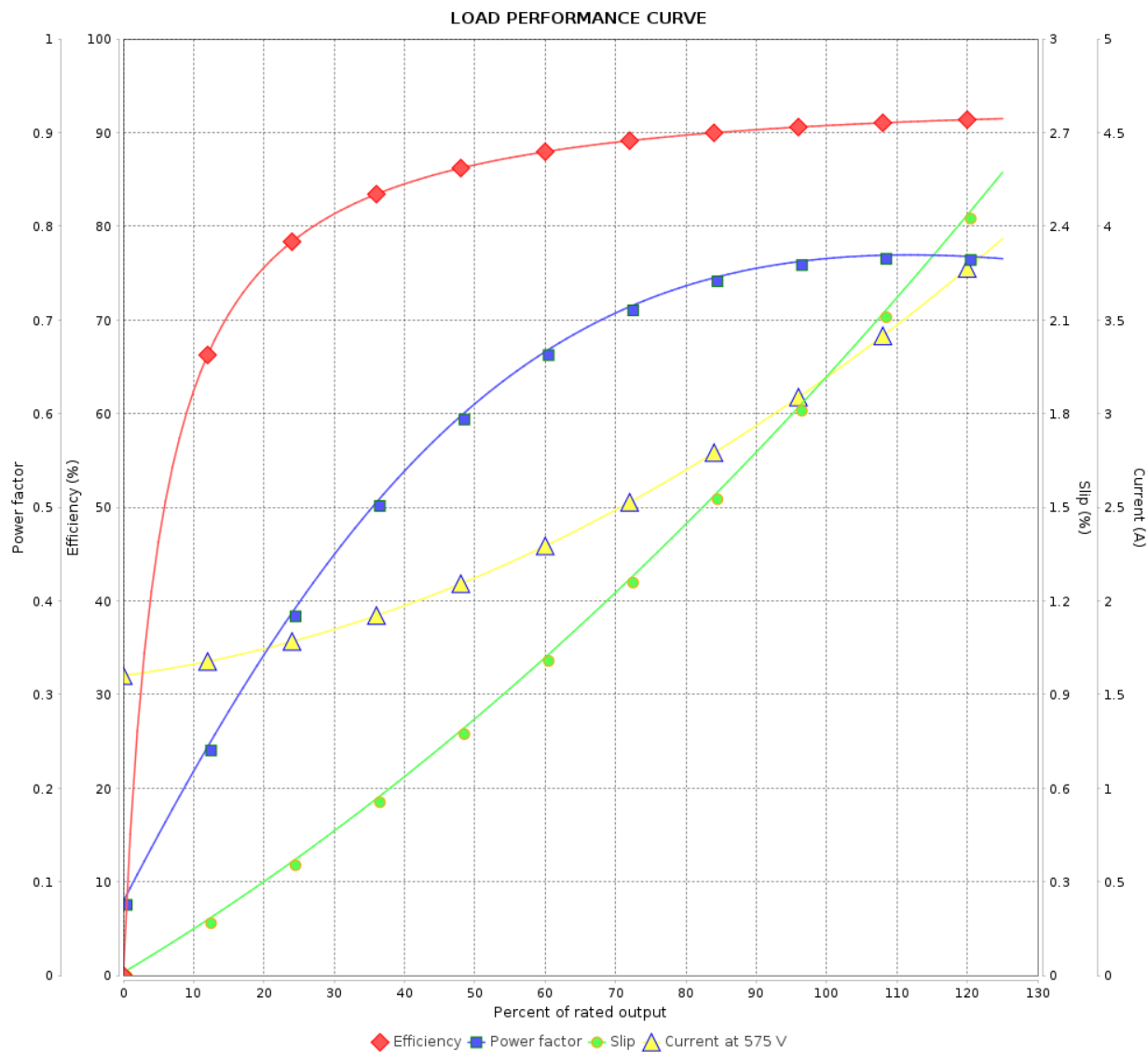
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Three-Phase

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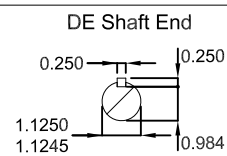
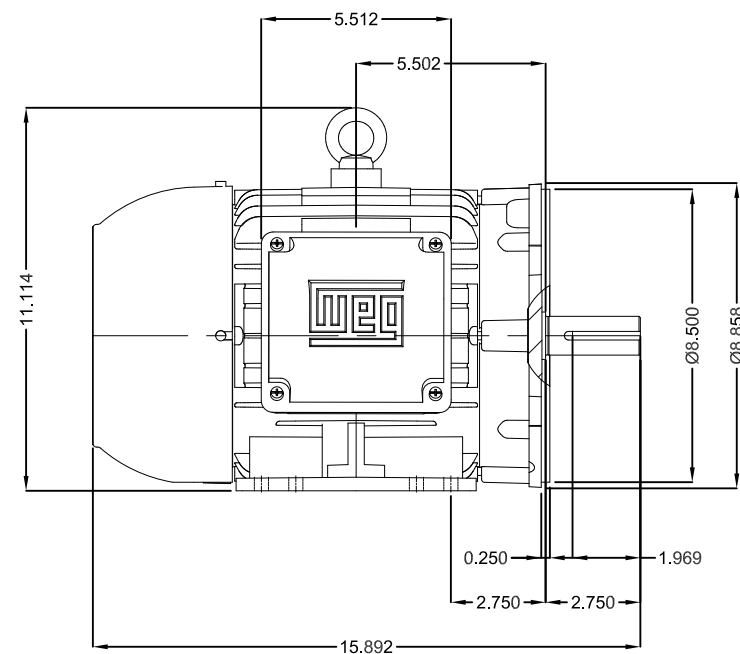
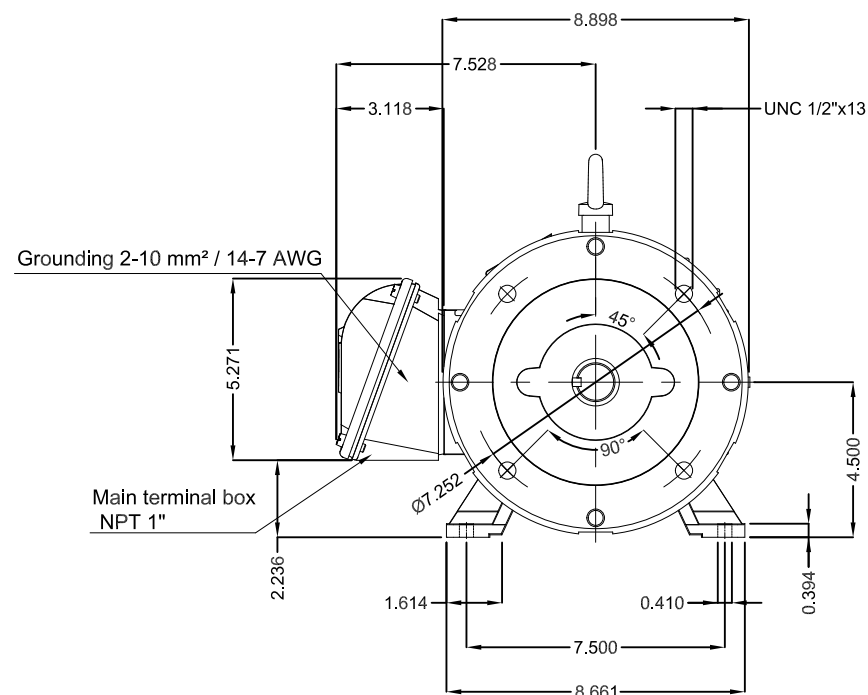
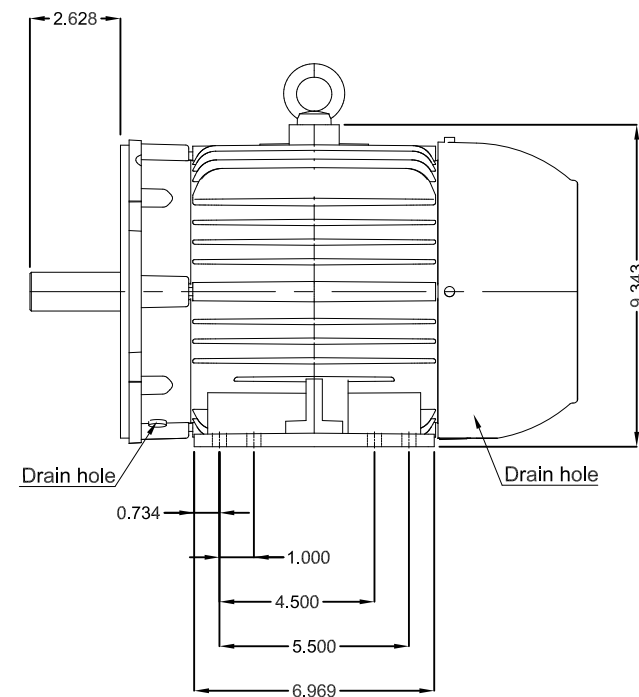


Performance : 575 V 60 Hz 4P

Rated current : 3.15 A
LRC : 8.3
Rated torque : 1.23 kgfm
Locked rotor torque : 229 %
Breakdown torque : 340 %
Rated speed : 1765 rpm

Moment of inertia (J) : 0.0167 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : A

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Performed by				Page	Revision
Checked by				2 / 2	
Date					



Color RAL 6002
Painting plan 207A
Mounting NEMA F-1
Mounting B34R(D)

3 HP 04 Poles 60 Hz										A
						HYBRISUSER				00
ECM		LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 SUPER PREM. EFF. FRAME 182/4TC IP55 TEFC				PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE										
						SHEET		/		