

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11783940

Frame	: 213/5T	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 15 HP (11 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	: 13.6 A	Protection degree	: IP55
L. R. Amperes	: 107 A	Cooling method	: IC411 - TEFC
LRC	: 7.9x(Code J)	Mounting	: F-1
No load current	: 4.64 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3520 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 3.09 kgfm	Approx. weight ³	: 77.8 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0268 kgm ²		
Design	: A		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.2	91.0	91.0	Max. traction	: 121 kgf
Power Factor	0.76	0.85	0.89	Max. compression	: 199 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)
9.8	7.9	6.9	4.8	3.1	2.0	1.3

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 ZZ	6207 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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 Revision 1 / 2		
Checked by				
Date	21/10/2024			

LOAD PERFORMANCE CURVE

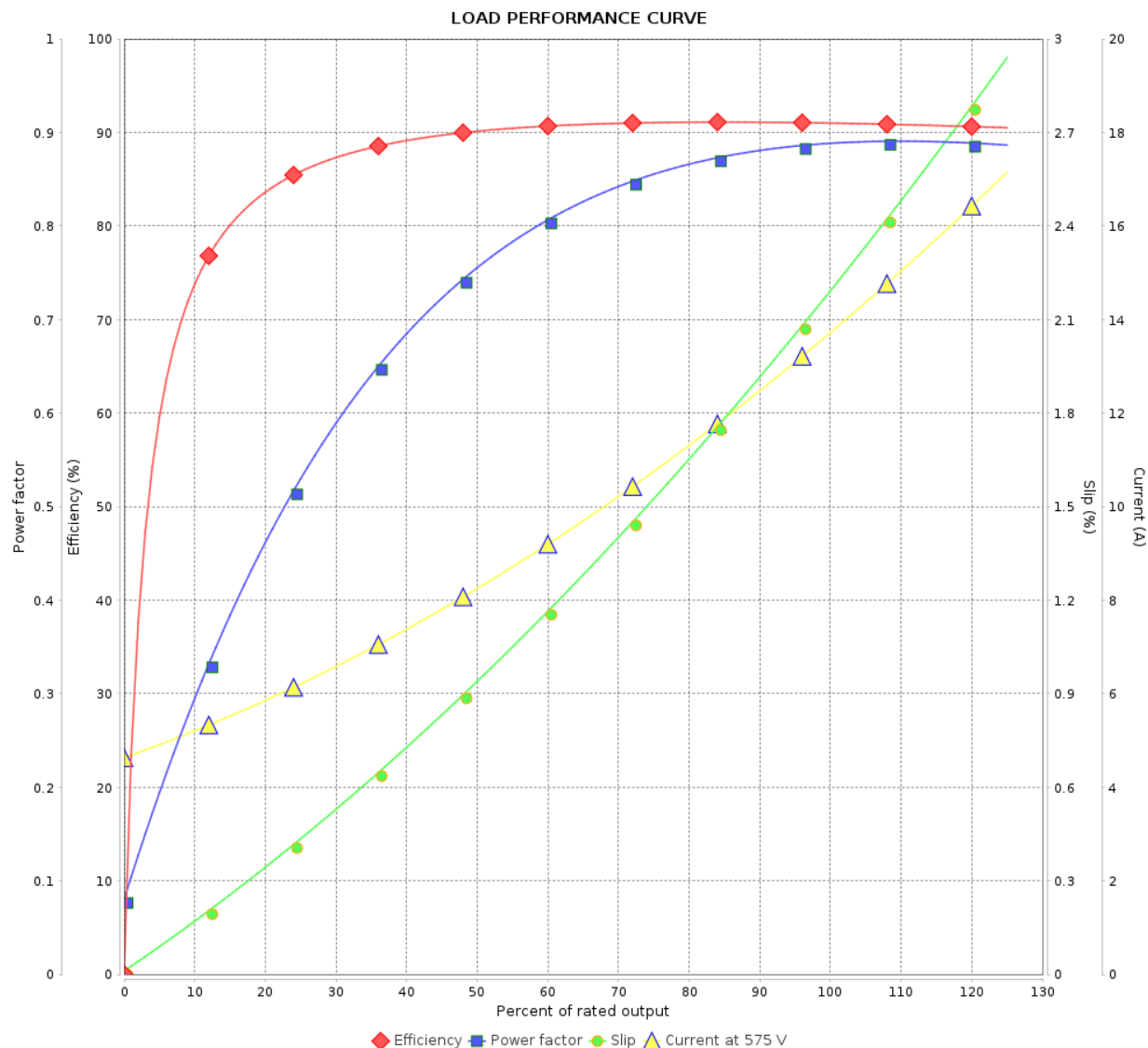
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Three-Phase

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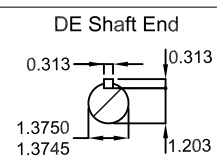
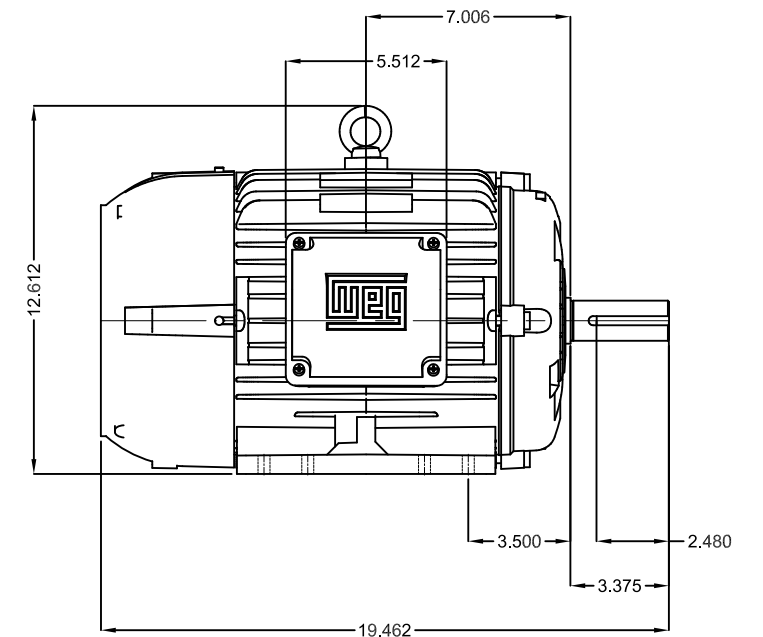
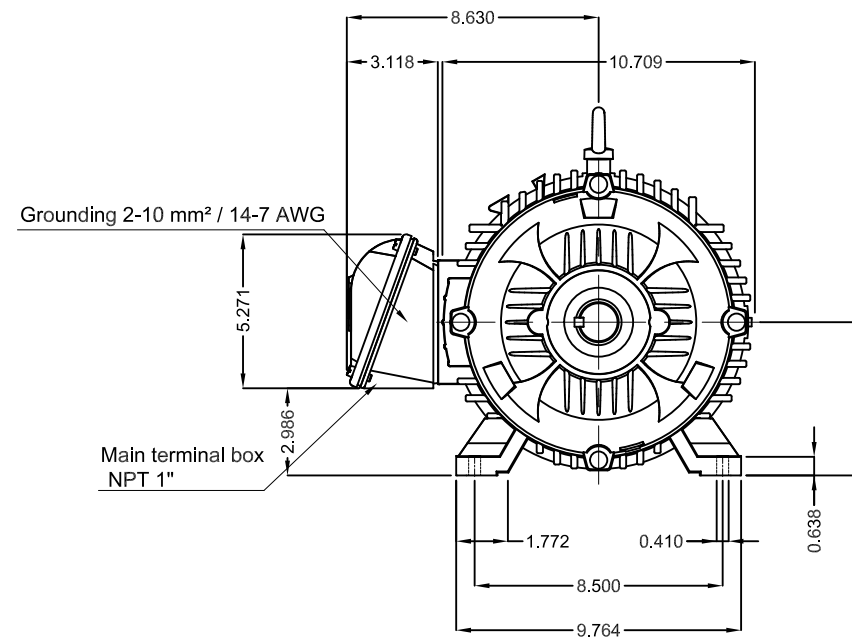
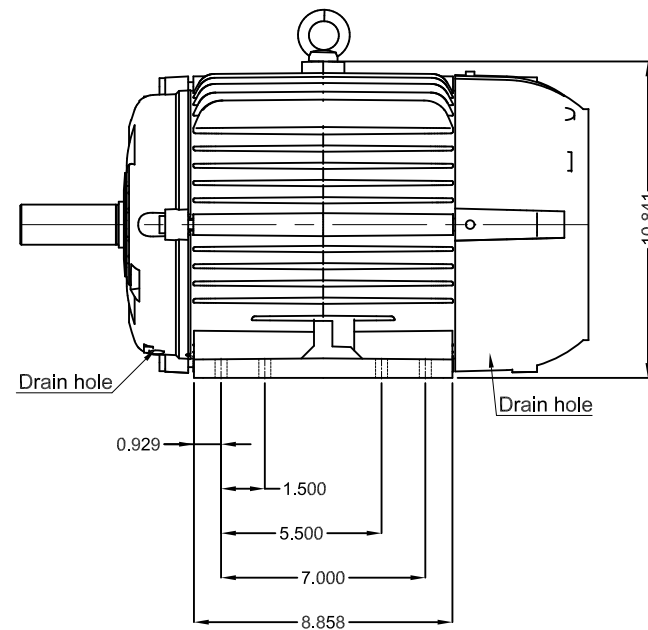


Performance : 575 V 60 Hz 2P

Rated current : 13.6 A
LRC : 7.9
Rated torque : 3.09 kgfm
Locked rotor torque : 240 %
Breakdown torque : 280 %
Rated speed : 3520 rpm

Moment of inertia (J) : 0.0268 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 5009
Painting plan 207A
Mounting B3R(D)

15 HP 02 Poles 60 Hz										A
				HYBRISUSER					00	
ECM		LOC		SUMMARY OF MODIFICATIONS			EXECUTED		CHECKED	
							RELEASED		DATE	
EXECUTED		HYBRISUSER		 THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 213/5T IP55 TEFC			PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE										
							SHEET		/	