

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:			
Product line	: NEMA Premium Efficiency Three-Phase	Product code : 12682573		
Frame	: 143/5T	Cooling method : IC01 - ODP		
Insulation class	: F	Mounting : F-1		
Duty cycle	: Cont.(S1)	Rotation ¹ : Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method : Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³ : 19.2 kg		
Design	: B	Moment of inertia (J) : 0.0060 kgm ²		
Output [HP]		1.5		
Poles		4		
Frequency [Hz]		60		
Rated voltage [V]		575		
Rated current [A]		1.66		
L. R. Amperes [A]		14.4		
LRC [A]		8.7x(Code L)		
No load current [A]		0.958		
Rated speed [RPM]		1760		
Slip [%]		2.22		
Rated torque [kgfm]		0.619		
Locked rotor torque [%]		280		
Breakdown torque [%]		330		
Service factor		1.15		
Temperature rise		80 K		
Locked rotor time		27s (cold) 15s (hot)		
Noise level ²		52.0 dB(A)		
Efficiency (%)	25%	83.6		
	50%	84.0		
	75%	86.5		
	100%	86.5		
Power Factor	25%	0.32		
	50%	0.56		
	75%	0.69		
	100%	0.77		
Bearing type	: <u>Drive end</u> 6205 ZZ <u>Non drive end</u> 6203 ZZ	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction : 48 kgf Max. compression : 68 kgf		
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				
Checked by			Page	Revision
Date	13/05/2022		1 / 2	

LOAD PERFORMANCE CURVE

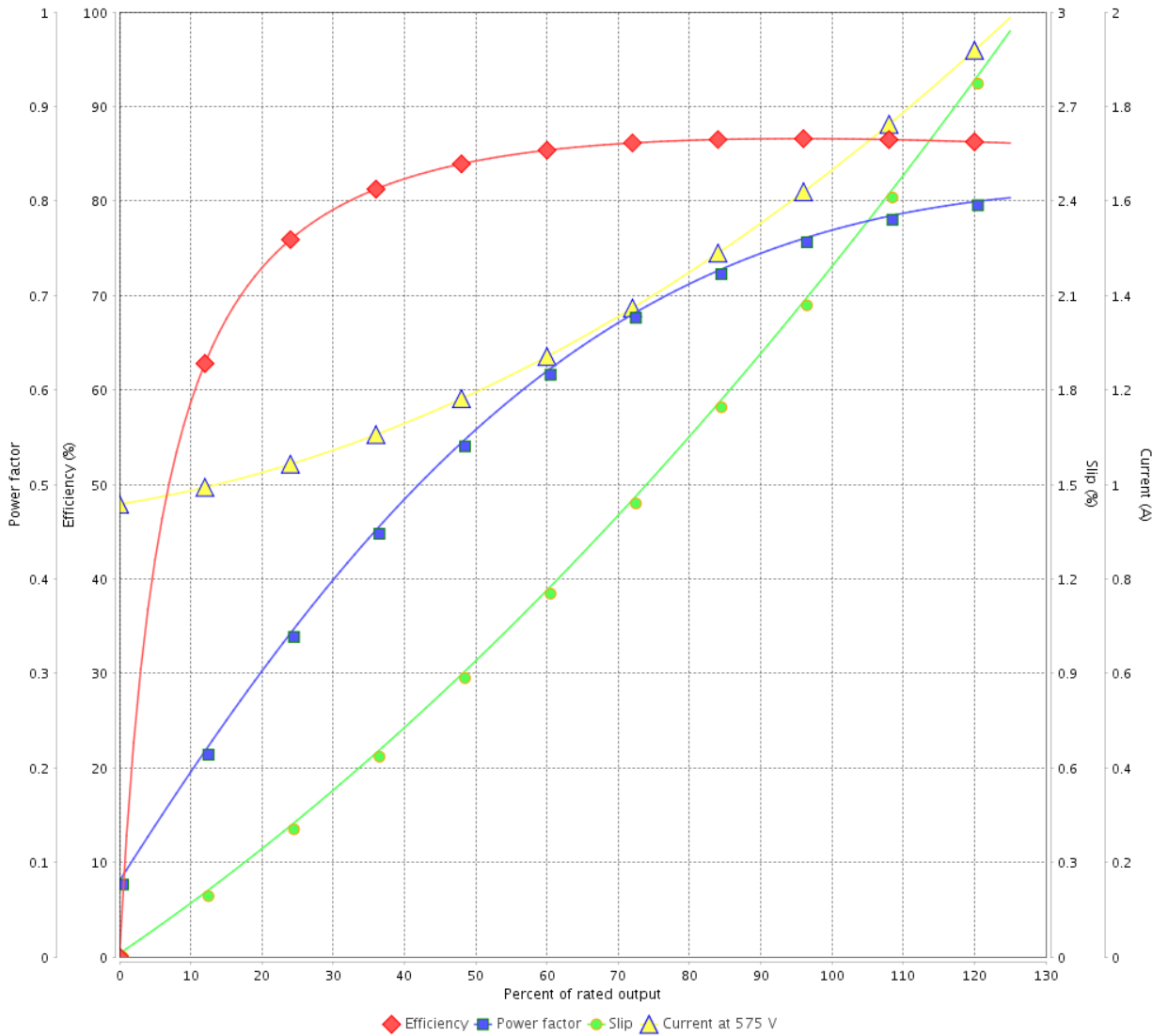
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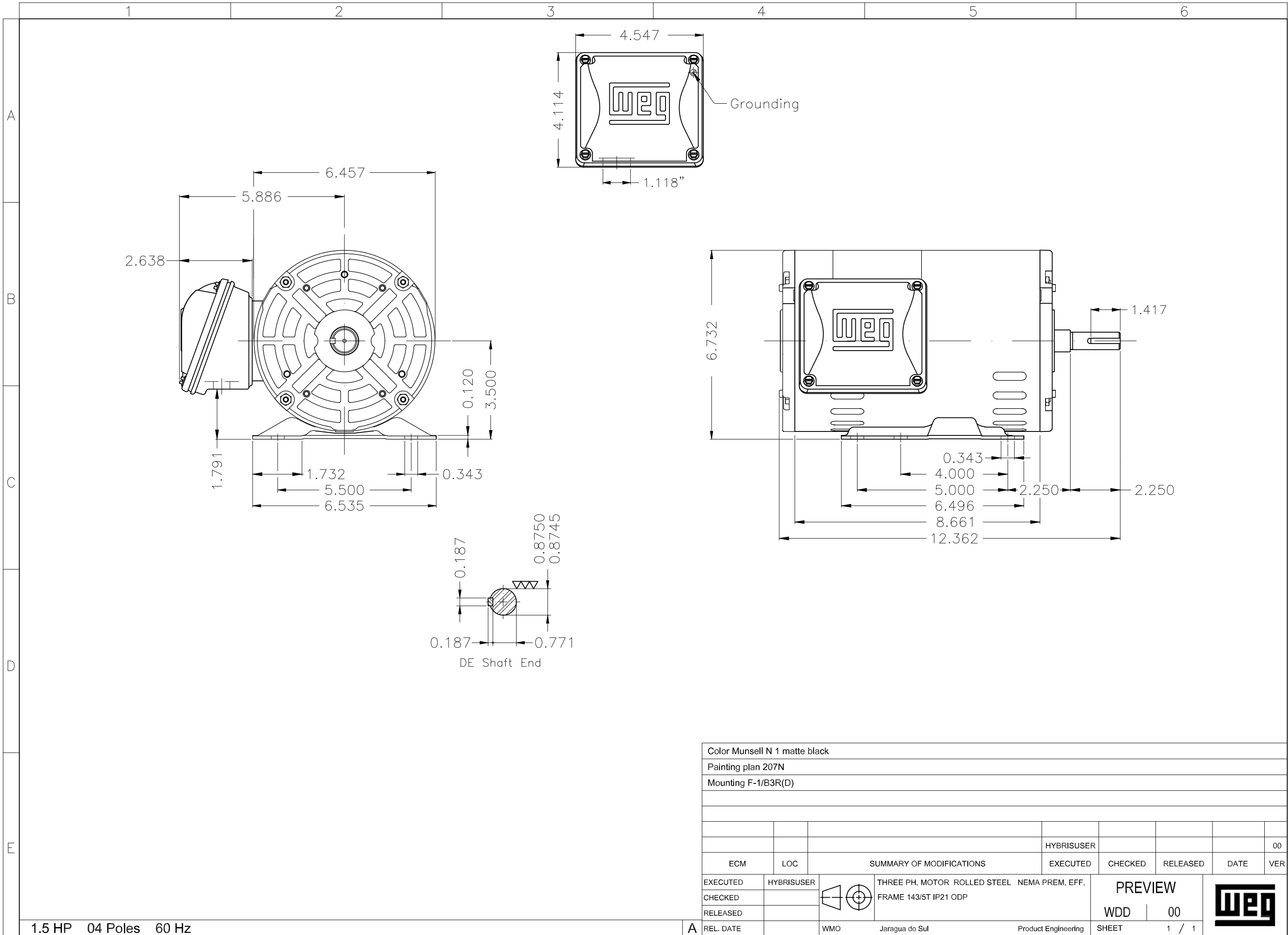
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Performance : 575 V 60 Hz 4P

Rated current	: 1.66 A	Moment of inertia (J)	: 0.0060 kgm ²
LRC	: 8.7	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

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1.5 HP 04 Poles 60 Hz

A		REL. DATE	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1
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Color Munsell N 1 matte black					
Painting plan 207N					
Mounting F-1/B3R(D)					
			HYBRISUSER		00
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF.			
CHECKED		FRAME 143/5T IP21 ODP			
RELEASED					

PREVIEW
WDD 00



Dimensions in inches XME A3