

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code : 14328080
Frame	: 254/6JP	Cooling method	: IC411 - TEFC	
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 ²	: 107 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0514 kgm ²	
Design	: B			
Output [HP]	20			
Poles	2			
Frequency [Hz]	60			
Rated voltage [V]	575			
Rated current [A]	18.2			
L. R. Amperes [A]	120			
LRC [A]	6.6x(Code G)			
No load current [A]	5.50			
Rated speed [RPM]	3515			
Slip [%]	2.36			
Rated torque [kgfm]	4.13			
Locked rotor torque [%]	200			
Breakdown torque [%]	290			
Service factor	1.15			
Temperature rise	80 K			
Locked rotor time	21s (cold) 12s (hot)			
Noise level ²	75.0 dB(A)			
Efficiency (%)	25%	89.7		
	50%	90.0		
	75%	91.0		
	100%	91.0		
Power Factor	25%	0.55		
	50%	0.81		
	75%	0.88		
	100%	0.91		
Bearing type	: Drive end 6309 Z C3	Non drive end 6208 Z C3	Foundation loads	
Sealing	: V'Ring	Without Bearing Seal	Max. traction : 135 kgf	
Lubrication interval	: 15797 h	20000 h	Max. compression : 242 kgf	
Lubricant amount	: 13 g	8 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
Performed by			Page	
Checked by			Revision	
Date	17/05/2022		1 / 2	

LOAD PERFORMANCE CURVE

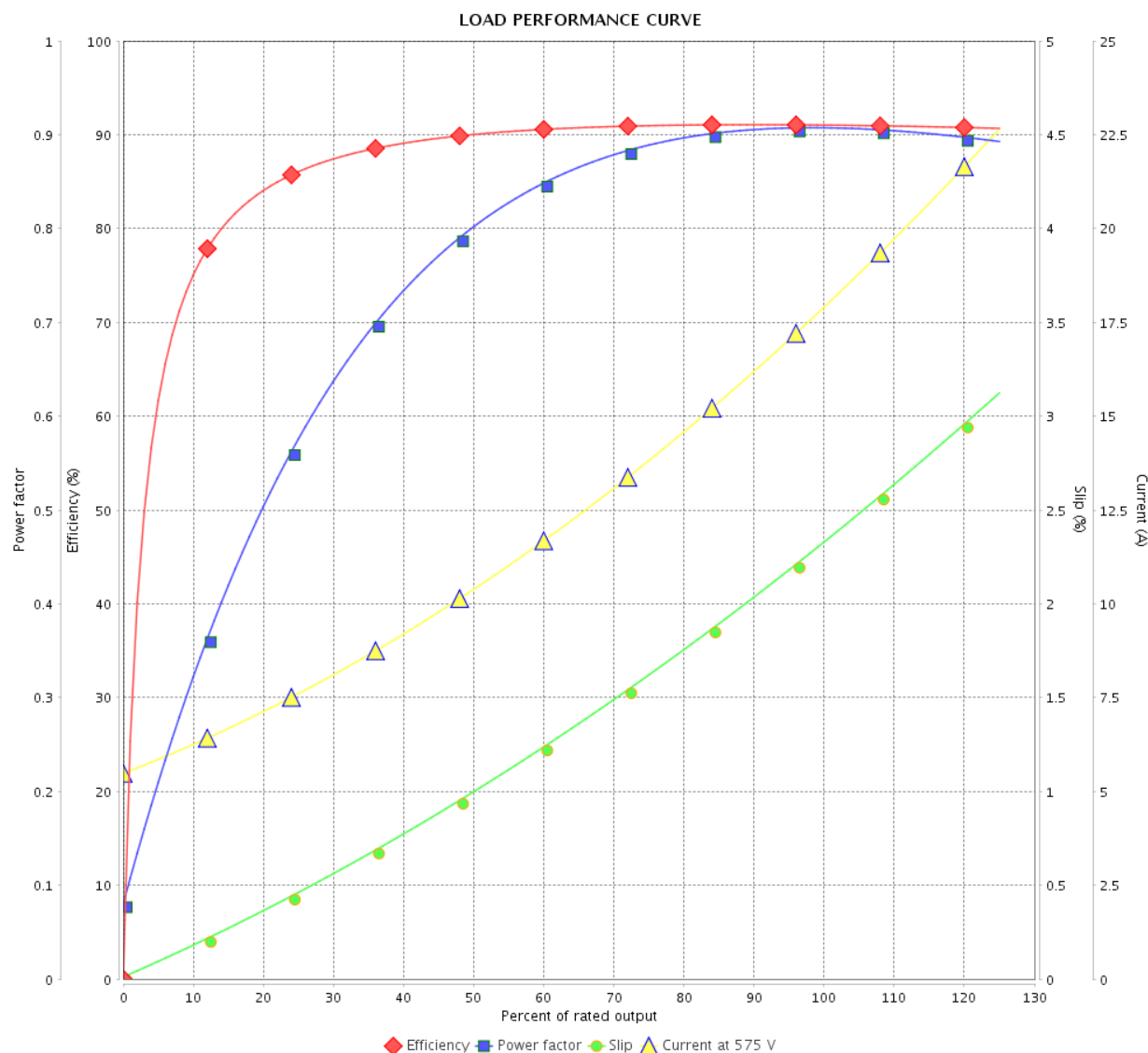
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Product line : JP Pump NEMA Premium
Efficiency Three-Phase

Product code : 14328080

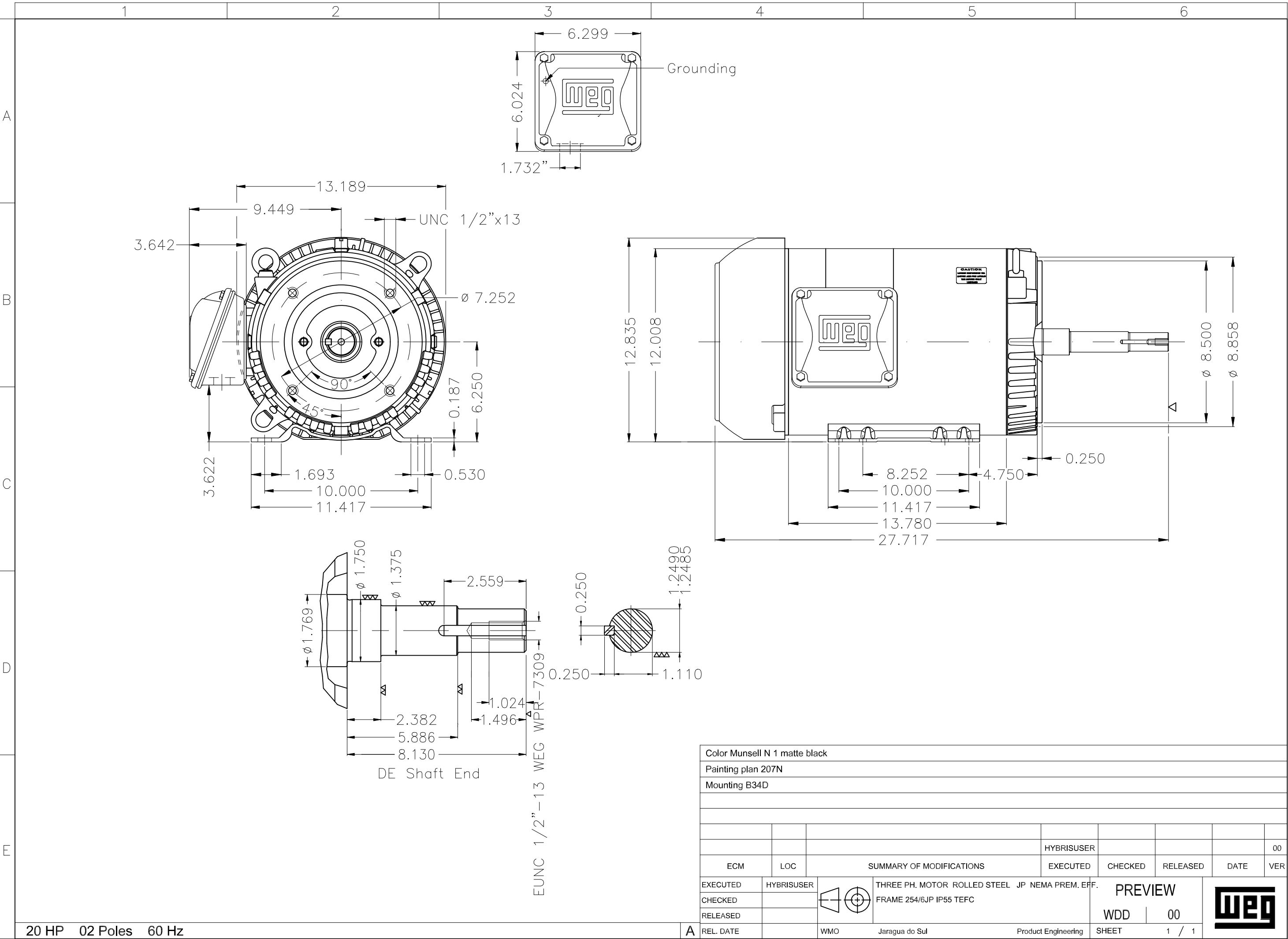


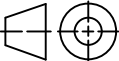
Performance : 575 V 60 Hz 2P

Rated current : 18.2 A
 LRC : 6.6
 Rated torque : 4.13 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 290 %
 Rated speed : 3515 rpm

Moment of inertia (J) : 0.0514 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date					



Color Munsell N 1 matte black									
Painting plan 207N									
Mounting B34D									
						HYBRISUSER			00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR ROLLED STEEL JP NEMA PREM. EFF.				PREVIEW		
CHECKED			FRAME 254/6JP IP55 TEFC						
RELEASED									
REL. DATE			WMO Jaragua do Sul		Product Engineering		SHEET	1 / 1	