

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : Three-Phase		Product code : 13989582			
Frame : W56C	Insulation class : F	Cooling method : IC411 - TEFC	Mounting : F-1		
Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Rotation ¹ : Both (CW and CCW)	Starting method : Direct On Line		
Altitude : 1000 m.a.s.l.	Protection degree : IP55	Approx. weight ³ : 9.9 kg	Moment of inertia (J) : 0.0022 kgm ²		
Output [HP]	0.5				
Poles	4				
Frequency [Hz]	60				
Rated voltage [V]	575				
Rated current [A]	0.622				
L. R. Amperes [A]	3.98				
LRC [A]	6.4x(Code J)				
No load current [A]	0.397				
Rated speed [RPM]	1730				
Slip [%]	3.89				
Rated torque [kgfm]	0.210				
Locked rotor torque [%]	229				
Breakdown torque [%]	310				
Service factor	1.15				
Temperature rise	80 K				
Locked rotor time	36s (cold) 20s (hot)				
Noise level ²	50.0 dB(A)				
Efficiency (%)	25%				
	50%	74.0			
	75%	77.0			
	100%	78.5			
Power Factor	25%				
	50%	0.54			
	75%	0.67			
	100%	0.76			
Bearing type	: Drive end 6203 ZZ	: Non drive end 6202 ZZ	Foundation loads		
Sealing	: V'Ring	: V'Ring	Max. traction : 16 kgf		
Lubrication interval	: -	: -	Max. compression : 25 kgf		
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					
Date	11/05/2022			Page 1 / 2	Revision

LOAD PERFORMANCE CURVE

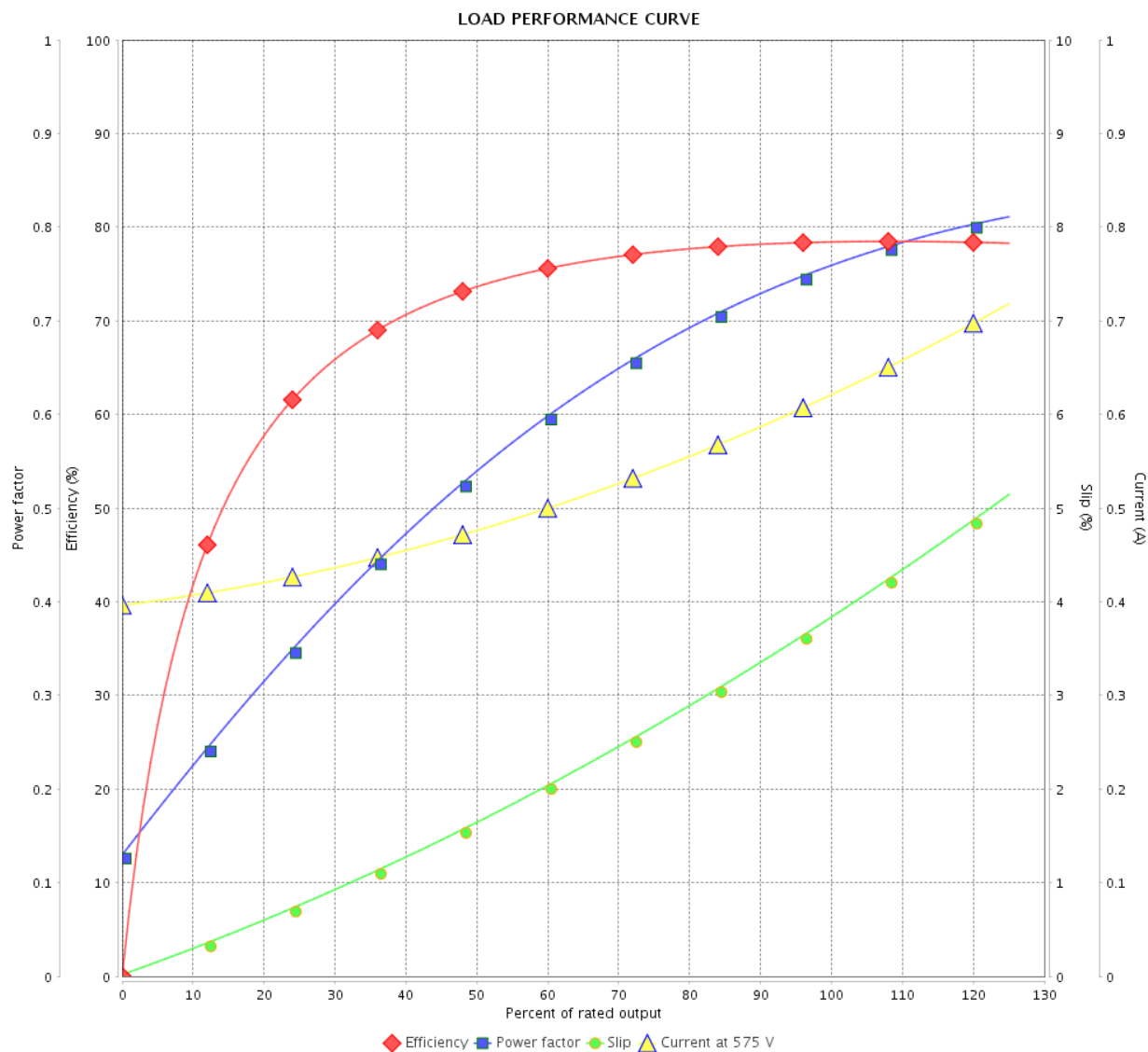
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Product code : 13989582

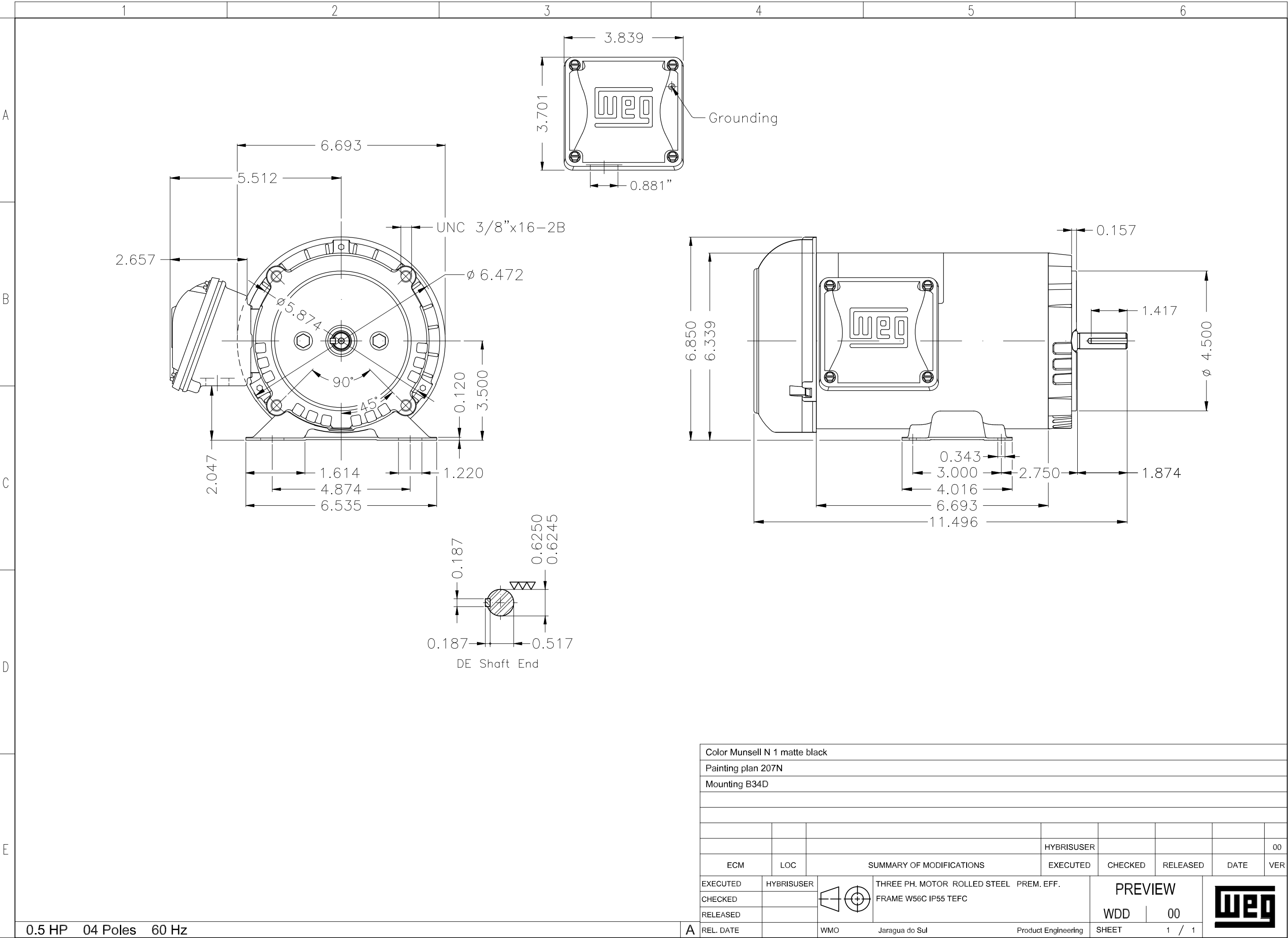




Performance : 575 V 60 Hz 4P

Rated current : 0.622 A
 LRC : 6.4
 Rated torque : 0.210 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 310 %
 Rated speed : 1730 rpm

Moment of inertia (J) : 0.0022 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
Checked by					
Date	11/05/2022				



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 PREM. EFF. FRAME W56C IP55 TEFC			PREVIEW WDD 00			
CHECKED									
RELEASED									
REL. DATE									
		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			