

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Single-Phase		Product code : 13508282		
Frame : 56	Insulation class : F	Cooling method : IC01 - ODP	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.	Design : N	Approx. weight ³ : 15.0 kg	Moment of inertia (J) : 0.0023 kgm ²	
Output [HP]	1			
Poles	2			
Frequency [Hz]	60			
Rated voltage [V]	115/208-230			
Rated current [A]	8.60/4.75-4.30			
L. R. Amperes [A]	72.2/39.9-36.1			
LRC [A]	8.4x(Code K)			
No load current [A]	2.60/1.12-1.30			
Rated speed [RPM]	3510			
Slip [%]	2.50			
Rated torque [kgfm]	0.207			
Locked rotor torque [%]	290			
Breakdown torque [%]	300			
Service factor				
Temperature rise	80 K			
Locked rotor time	28s (cold) 16s (hot)			
Noise level ²	58.0 dB(A)			
Efficiency (%)	25%			
	50%	69.0		
	75%	76.0		
	100%	80.4		
Power Factor	25%			
	50%	0.89		
	75%	0.93		
	100%	0.94		
Bearing type : 6204 ZZ	Drive end	Non drive end	Foundation loads	
Sealing : Without			Max. traction : 12 kgf	
	Bearing Seal	Bearing Seal	Max. compression : 27 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
Performed by				
Checked by			Page	Revision
Date	17/05/2022		1 / 2	

LOAD PERFORMANCE CURVE

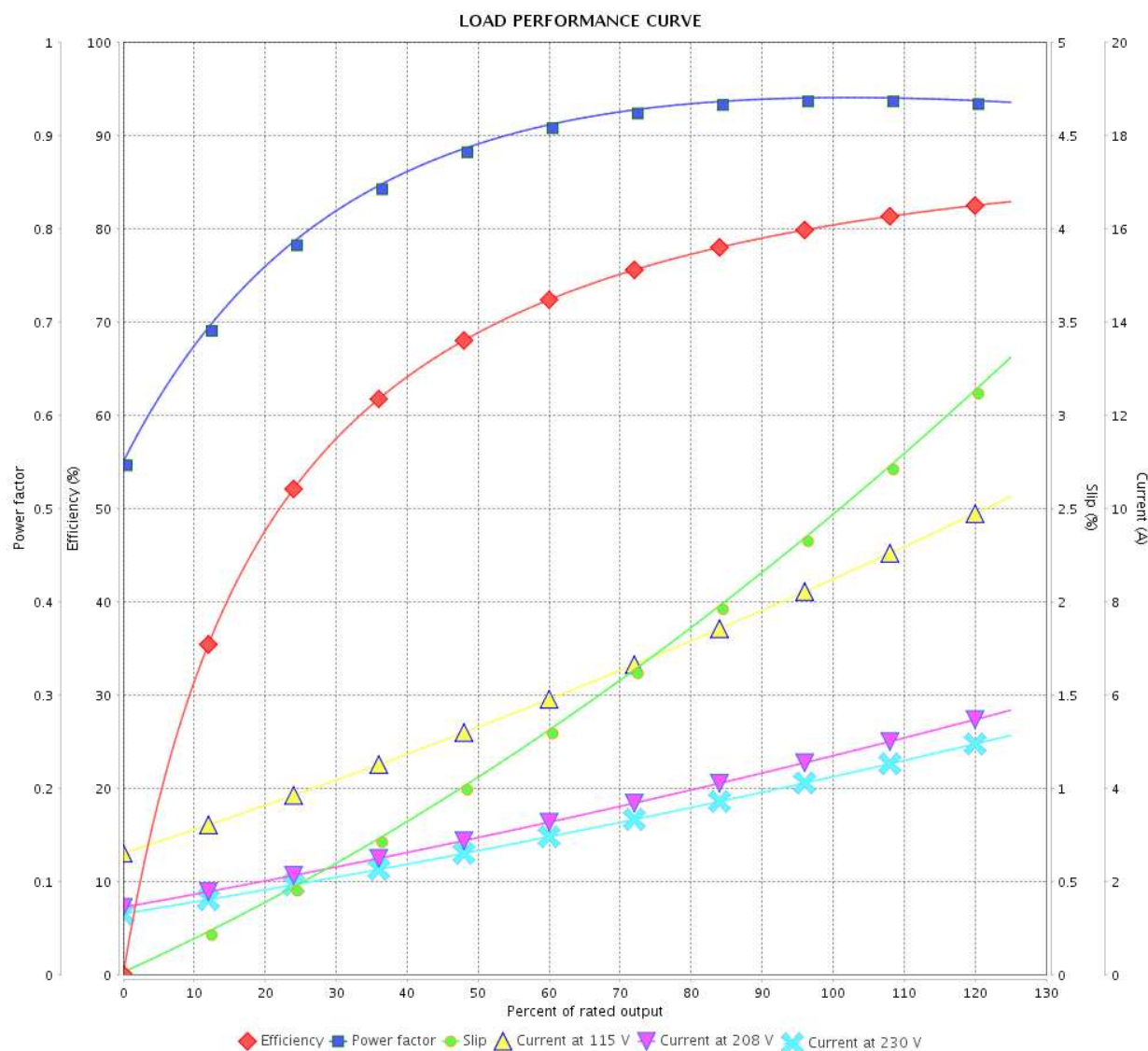
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Product code : 13508282

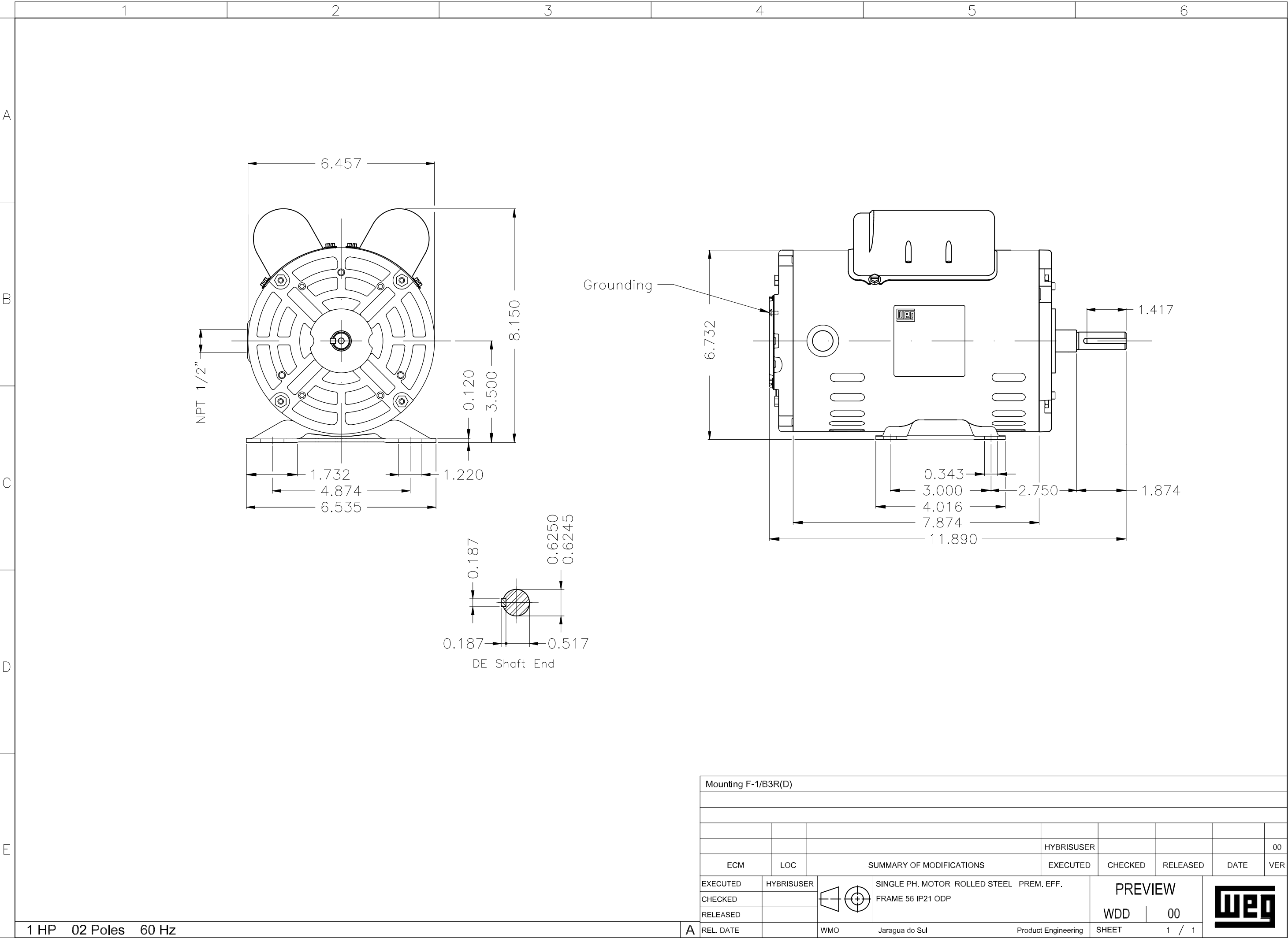


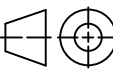
Performance : 115/208-230 V 60 Hz 2P

Rated current : 8.60/4.75-4.30 A
 LRC : 8.4
 Rated torque : 0.207 kgfm
 Locked rotor torque : 290 %
 Breakdown torque : 300 %
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.0023 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
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Mounting F-1/B3R(D)									
				HYBRISUSER					00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	 SINGLE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 56 IP21 ODP			PREVIEW				
CHECKED									
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			

1 HP 02 Poles 60 Hz

A