

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Single-Phase	Product code : 13626077		
Frame	: 48	Cooling method : IC01 - ODP		
Insulation class	: F	Mounting : F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup> : Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method : Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup> : 9.5 kg		
Design	: N	Moment of inertia (J) : 0.0022 kgm <sup>2</sup>		
Output [HP]		0.5		
Poles		4		
Frequency [Hz]		60		
Rated voltage [V]		115/208-230		
Rated current [A]		4.86/3.04-2.43		
L. R. Amperes [A]		37.4/23.4-18.7		
LRC [A]		7.7x(Code K)		
No load current [A]		2.70/1.16-1.35		
Rated speed [RPM]		1730		
Slip [%]		3.89		
Rated torque [kgfm]		0.210		
Locked rotor torque [%]		300		
Breakdown torque [%]		270		
Service factor				
Temperature rise		80 K		
Locked rotor time		27s (cold) 15s (hot)		
Noise level <sup>2</sup>		50.0 dB(A)		
Efficiency (%)	25%			
	50%	65.0		
	75%	73.0		
	100%	76.2		
Power Factor	25%			
	50%	0.72		
	75%	0.81		
	100%	0.87		
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction : 16 kgf Max. compression : 25 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	17/05/2022		1 / 2	

# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

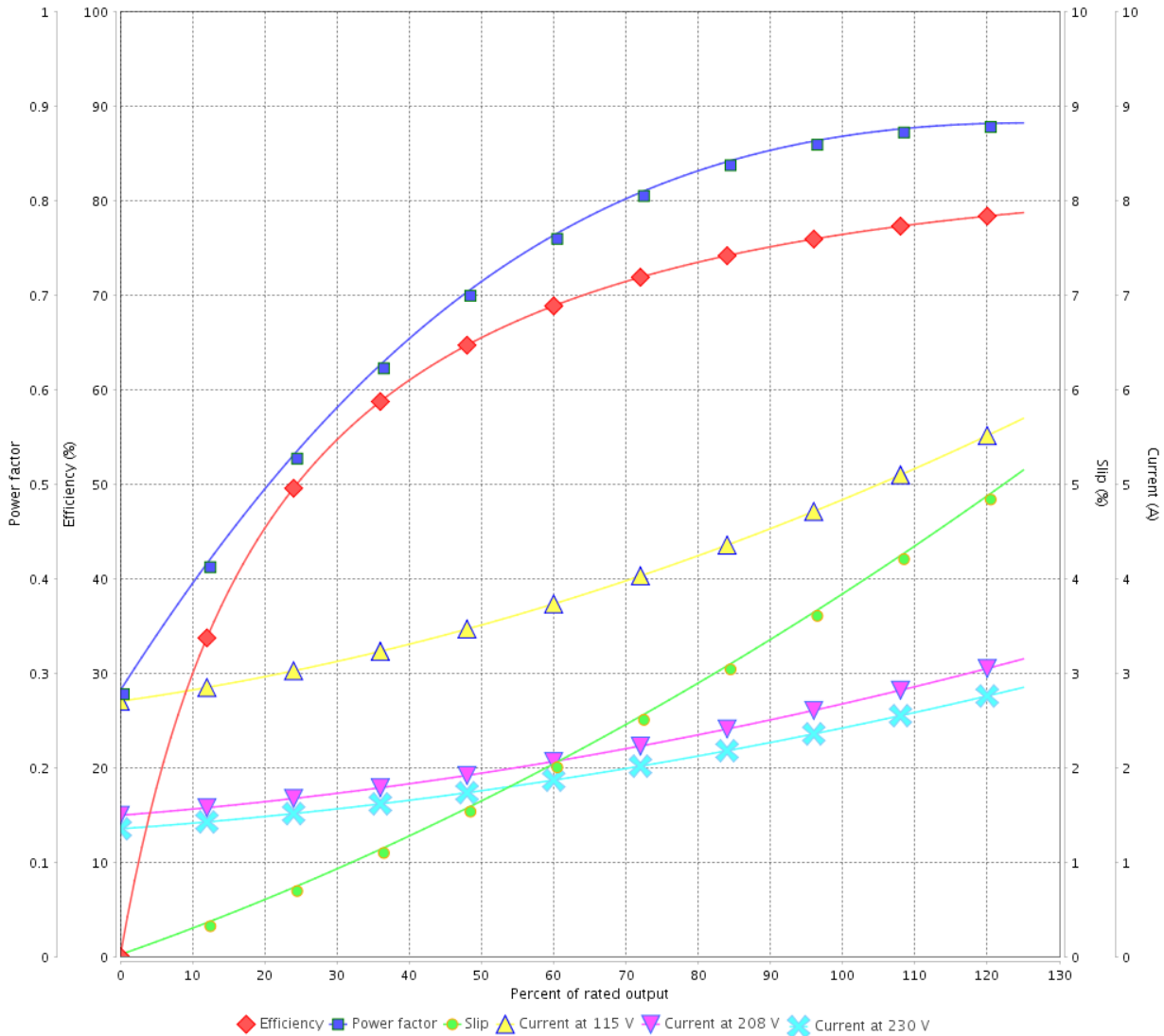


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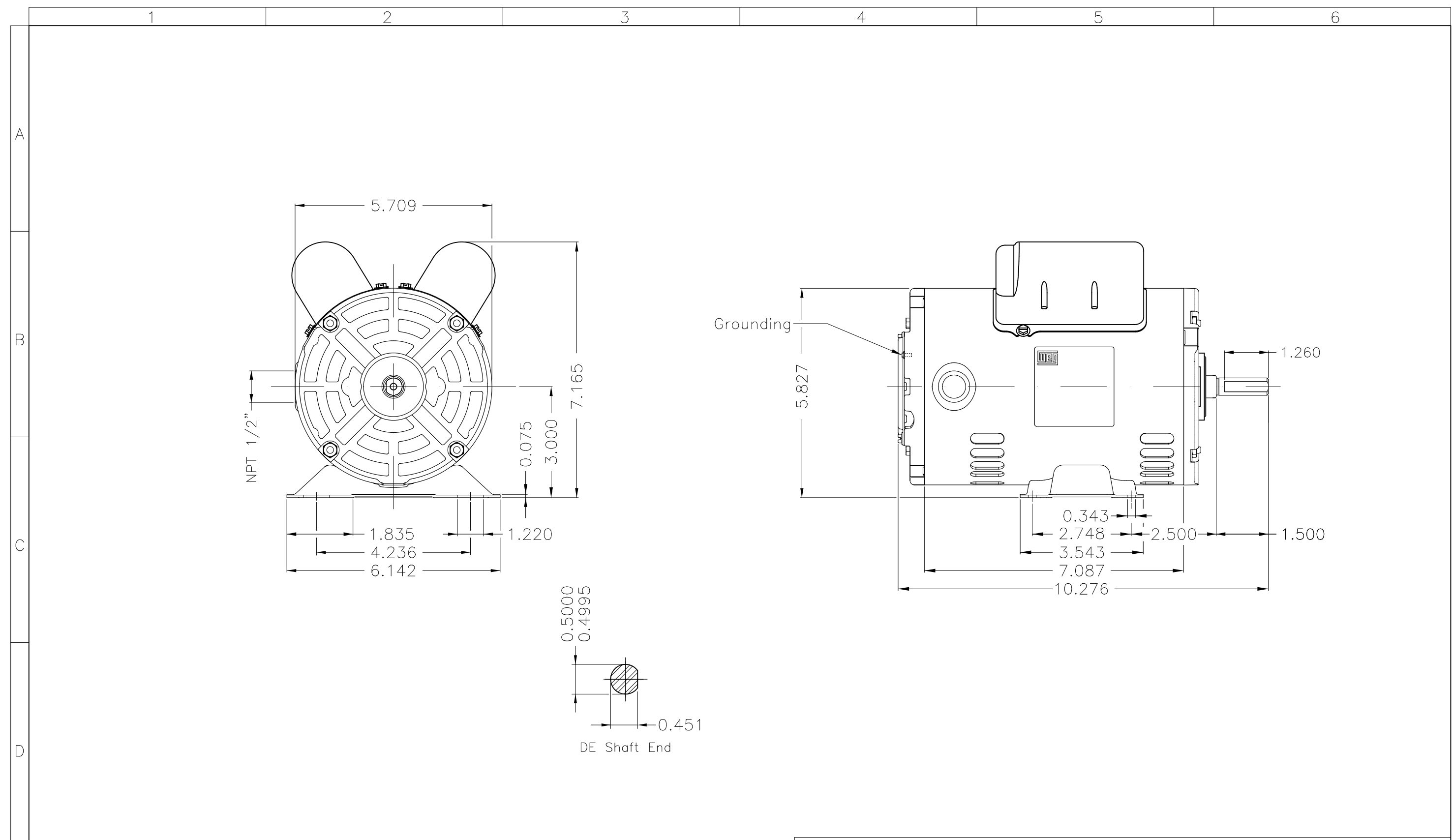


Performance : 115/208-230 V 60 Hz 4P

Rated current : 4.86/3.04-2.43 A  
 LRC : 7.7  
 Rated torque : 0.210 kgfm  
 Locked rotor torque : 300 %  
 Breakdown torque : 270 %  
 Rated speed : 1730 rpm

Moment of inertia (J) : 0.0022 kgm<sup>2</sup>  
 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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Color Munsell N 1 matte black  
 Painting plan 207N  
 Mounting F-1/B3R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 48 IP21 ODP					
CHECKED							
RELEASED							
REL. DATE		WMO Jaragua do Sul	Product Engineering	PREVIEW	WDD	00	00

0.5 HP 04 Poles 60 Hz

