

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: Jet Pump - C type Single-Phase	Product code :	14184426
Frame	: 56C	Cooling method	: IC411 - TEFC	
Insulation class	: F	Mounting	: F-1	
Duty cycle	: Cont.(S1)	Rotation ¹	: CCW	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 17.1 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0030 kgm ²	
Design	: L			
Output [HP]	2			
Poles	2			
Frequency [Hz]	60			
Rated voltage [V]	115/208-230			
Rated current [A]	17.5/9.62-8.73			
L. R. Amperes [A]	136/75.0-68.1			
LRC [A]	7.8x(Code J)			
No load current [A]	5.00/2.16-2.50			
Rated speed [RPM]	3495			
Slip [%]	2.92			
Rated torque [kgfm]	0.415			
Locked rotor torque [%]	220			
Breakdown torque [%]	250			
Service factor				
Temperature rise	80 K			
Locked rotor time	10s (cold) 6s (hot)			
Noise level ²	68.0 dB(A)			
Efficiency (%)	25%			
	50%	70.0		
	75%	75.0		
	100%	77.0		
Power Factor	25%			
	50%	0.94		
	75%	0.97		
	100%	0.97		
Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction	: 24 kgf	
Lubrication interval	: - -	Max. compression	: 41 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
Performed by				
Checked by			Page	Revision
Date	17/05/2022		1 / 2	

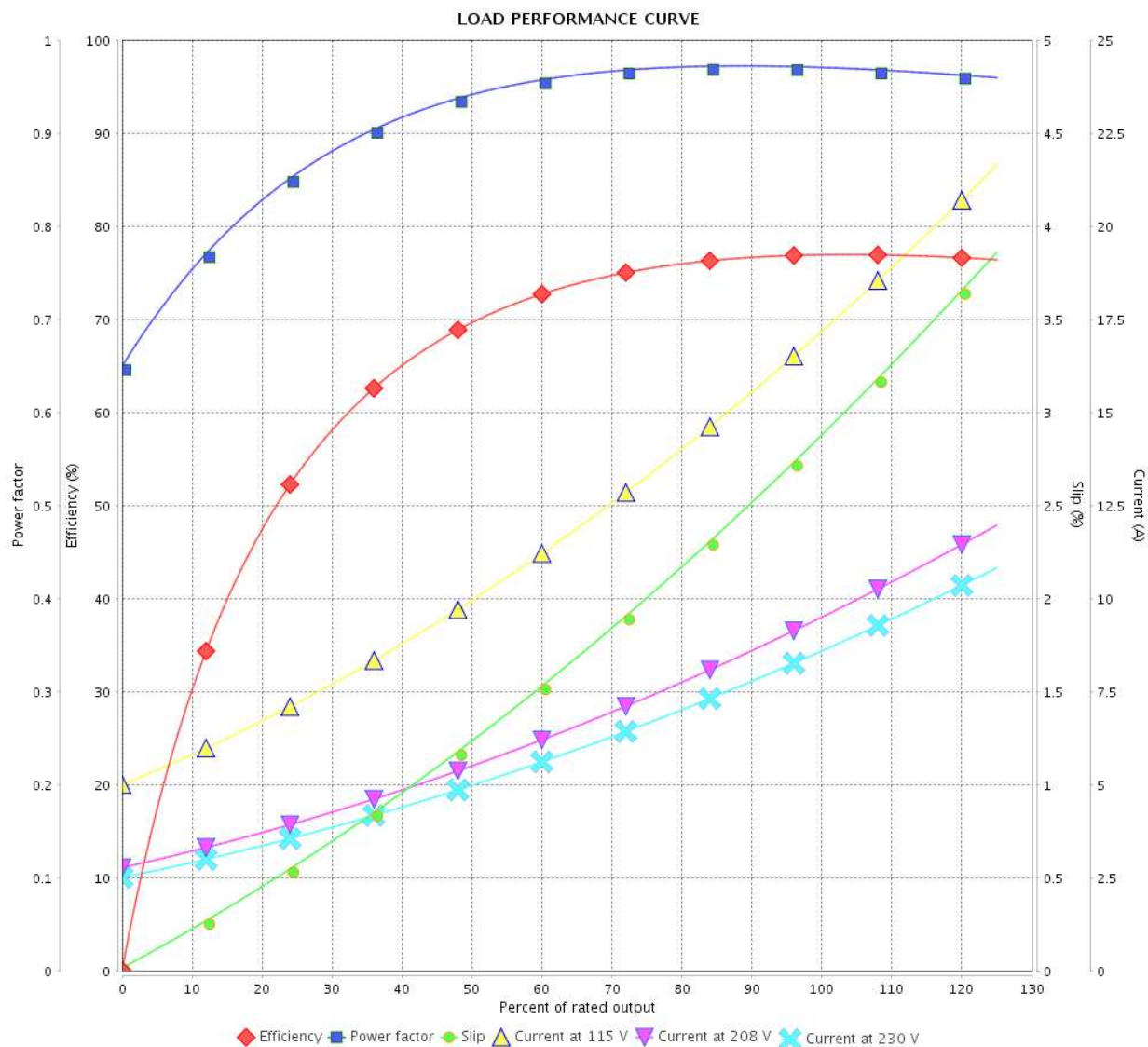
LOAD PERFORMANCE CURVE

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Product line : Jet Pump - C type Single-Phase Product code : 14184426

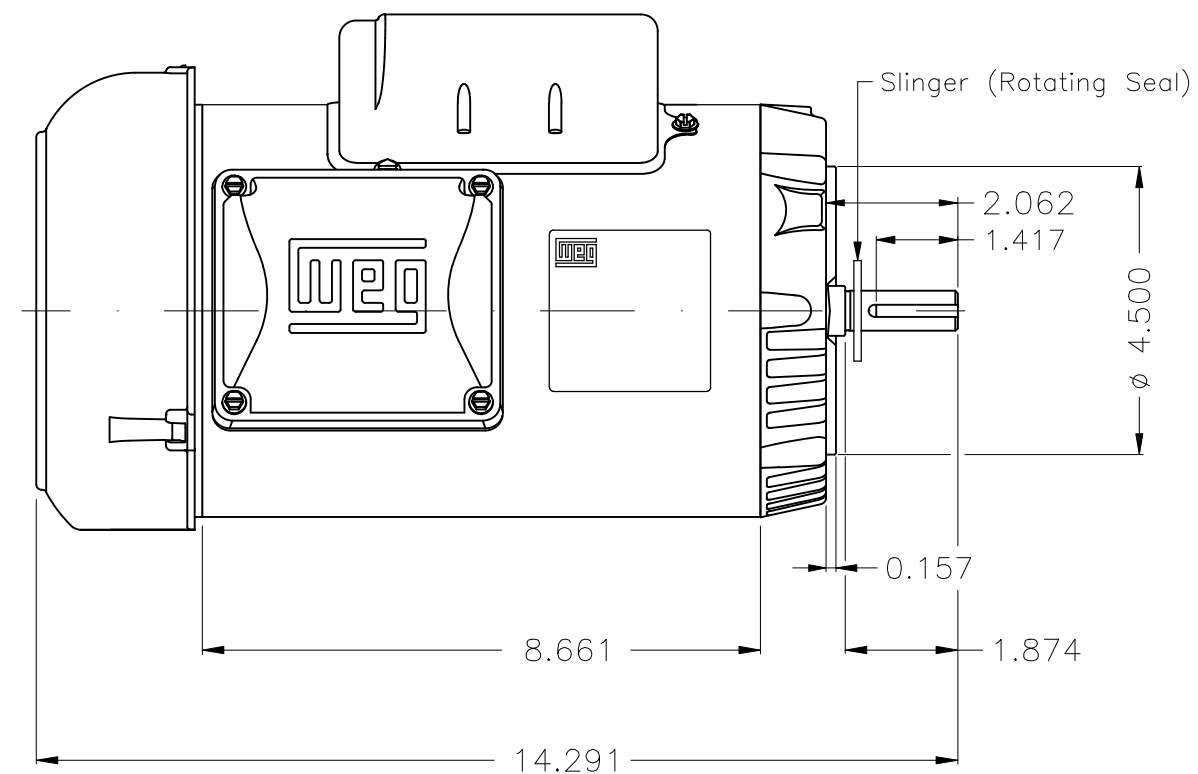
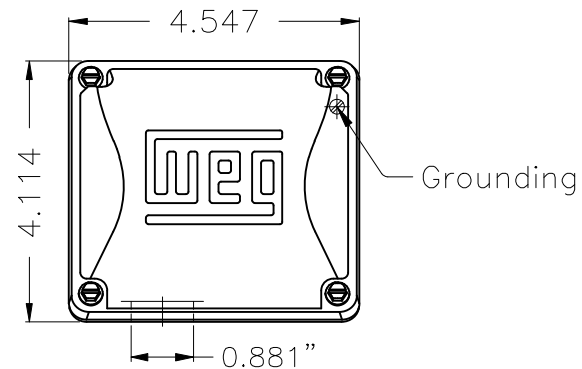


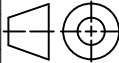
Performance : 115/208-230 V 60 Hz 2P

Rated current : 17.5/9.62-8.73 A
 LRC : 7.8
 Rated torque : 0.415 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 3495 rpm

Moment of inertia (J) : 0.0030 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : L

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 F-1/B14R(D)									
						HYBRISUSER			00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE VER
EXECUTED	HYBRISUSER		SINGLE PH. MOTOR ROLLED STEEL JET PUMP KEYED FRAME 56C IP55 TEFC			PREVIEW WDD 00			
CHECKED									
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			