

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Jet Pump - J type Single-Phase	Product code : 14627823		
Frame	: 56J	Cooling method : IC01 - ODP		
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 : 21.0 kg		
Design	: L	Moment of inertia (J) : 0.0040 kgm ²		
Output [HP]		3		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		230		
Rated current [A]		12.2		
L. R. Amperes [A]		100		
LRC [A]		8.2x(Code J)		
No load current [A]		3.90		
Rated speed [RPM]		3500		
Slip [%]		2.78		
Rated torque [kgfm]		0.622		
Locked rotor torque [%]		220		
Breakdown torque [%]		280		
Service factor		1.15		
Temperature rise		80 K		
Locked rotor time		10s (cold) 6s (hot)		
Noise level ²		58.0 dB(A)		
Efficiency (%)	25%			
	50%	76.0		
	75%	81.0		
	100%	84.1		
Power Factor	25%			
	50%	0.87		
	75%	0.92		
	100%	0.93		
Bearing type	: <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS	Foundation loads		
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction : 45 kgf		
Lubrication interval	: - -	Max. compression : 66 kgf		
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes				
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>		<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>		
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	17/05/2022		1 / 2	

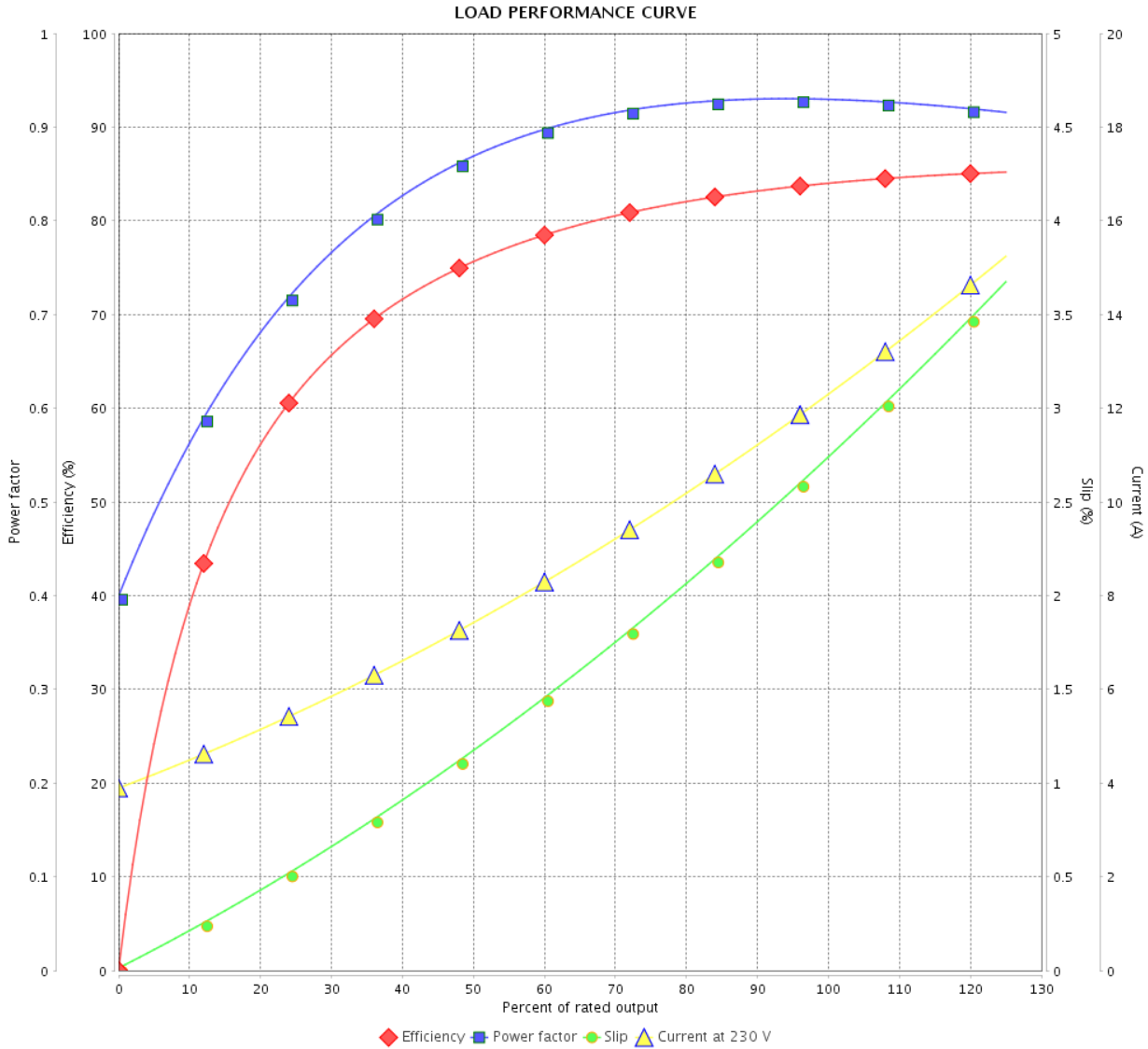
LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

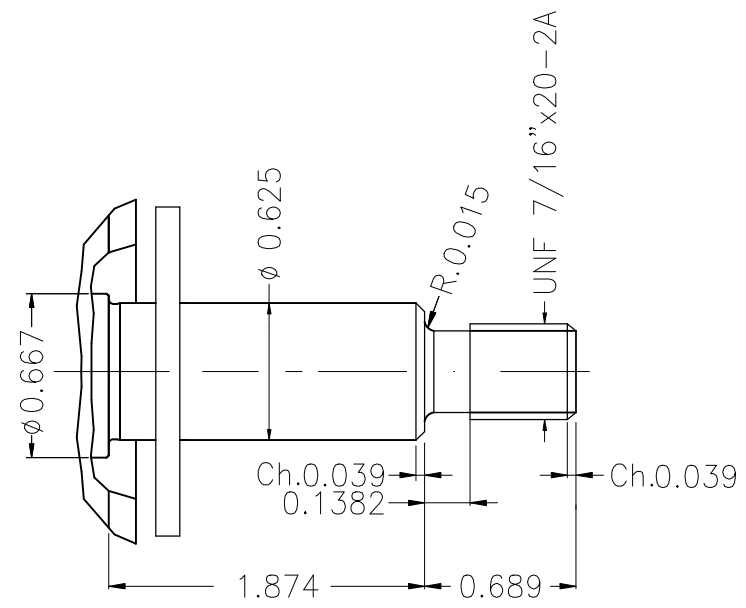
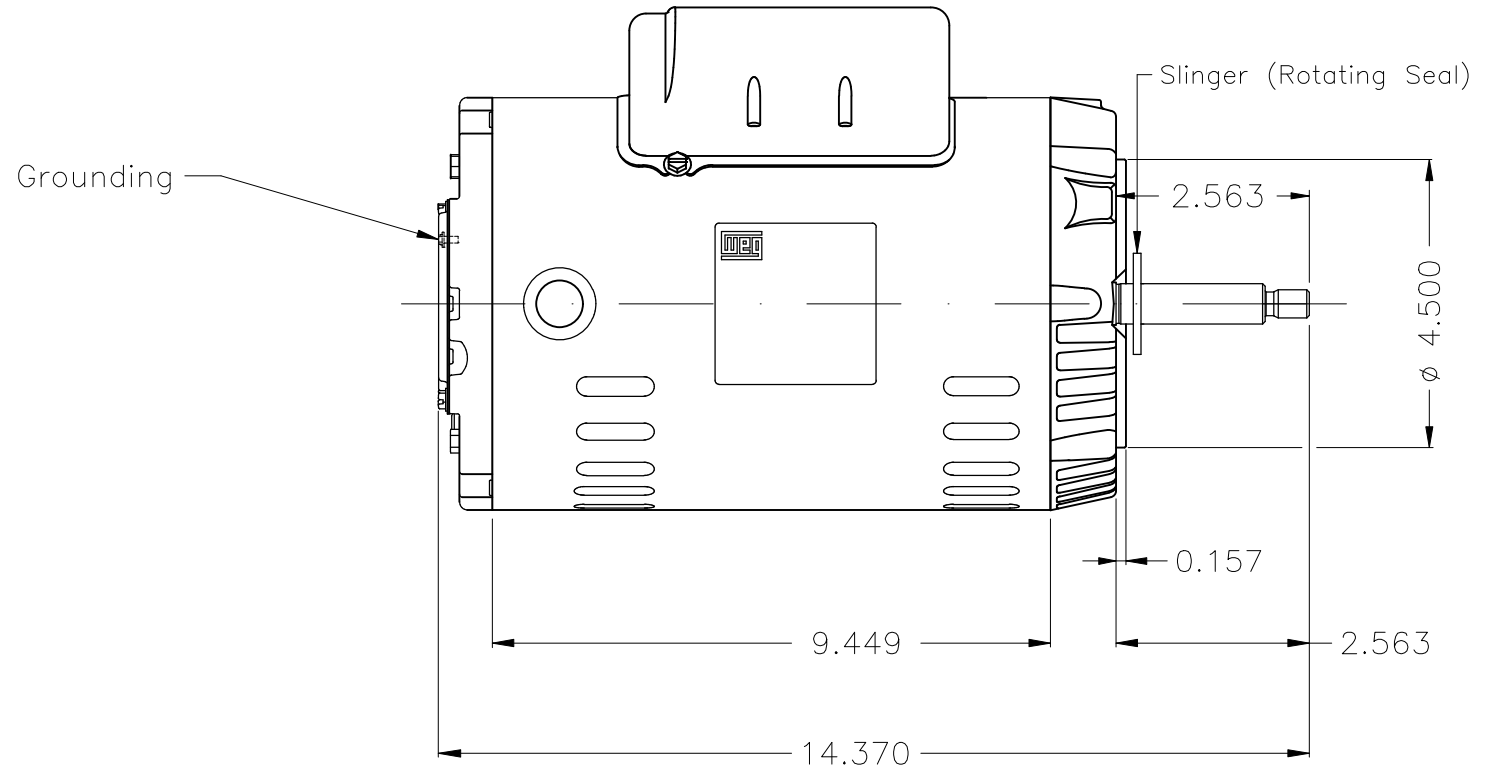
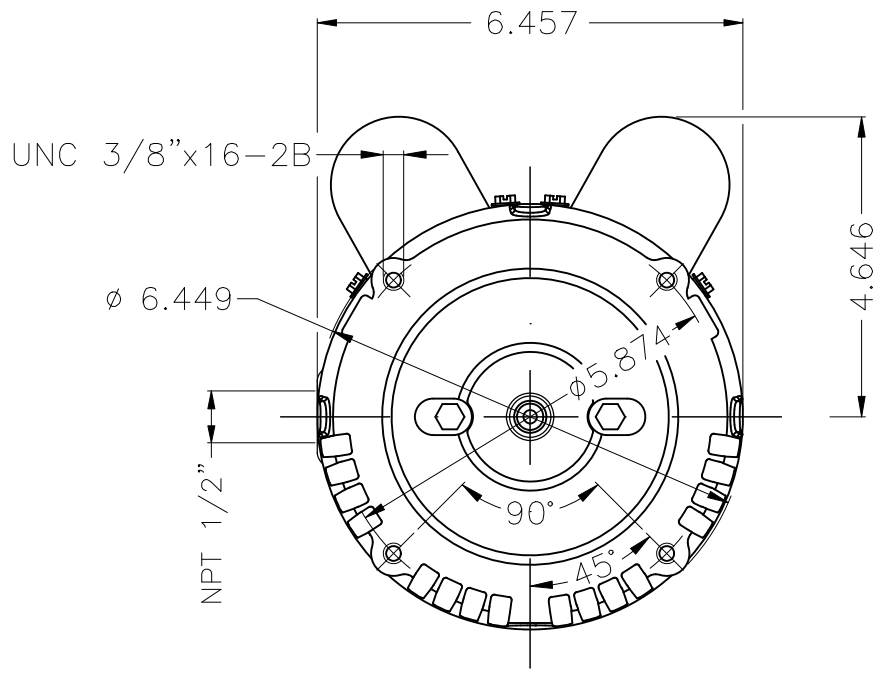
Product line : Jet Pump - J type Single-Phase Product code : 14627823



Performance : 230 V 60 Hz 2P

Rated current	: 12.2 A	Moment of inertia (J)	: 0.0040 kgm ²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 0.622 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 3500 rpm	Design	: L

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
Date	17/05/2022			



Color Munsell N 1 matte black
 Painting plan 207N
 Mounting F-1/B14R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR ROLLED STEEL JET PUMP THREADED PREFFET					00
CHECKED		FRAME 56J IP21 ODP					
RELEASED							
REL. DATE	WMO	Jaragua do Sul	Product Engineering	WDD	00	SHEET	1 / 1

3 HP 02 Poles 60 Hz

A

