

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Jet Pump - J type Single-Phase			
Product code :	14581698			
Frame	: 56J			
Insulation class	: F			
Duty cycle	: Cont.(S1)			
Ambient temperature	: -20°C to +40°C			
Altitude	: 1000 m.a.s.l.			
Design	: N			
Cooling method	: IC01 - ODP			
Mounting	: F-1			
Rotation ¹	: CCW			
Starting method	: Direct On Line			
Approx. weight ³	: 13.8 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	: <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS			
Sealing	: Without Without Bearing Seal Bearing Seal			
Lubrication interval	: - -			
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Foundation loads	Max. traction : 13 kgf Max. compression : 26 kgf			
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	17/05/2022		Page 1 / 2	Revision

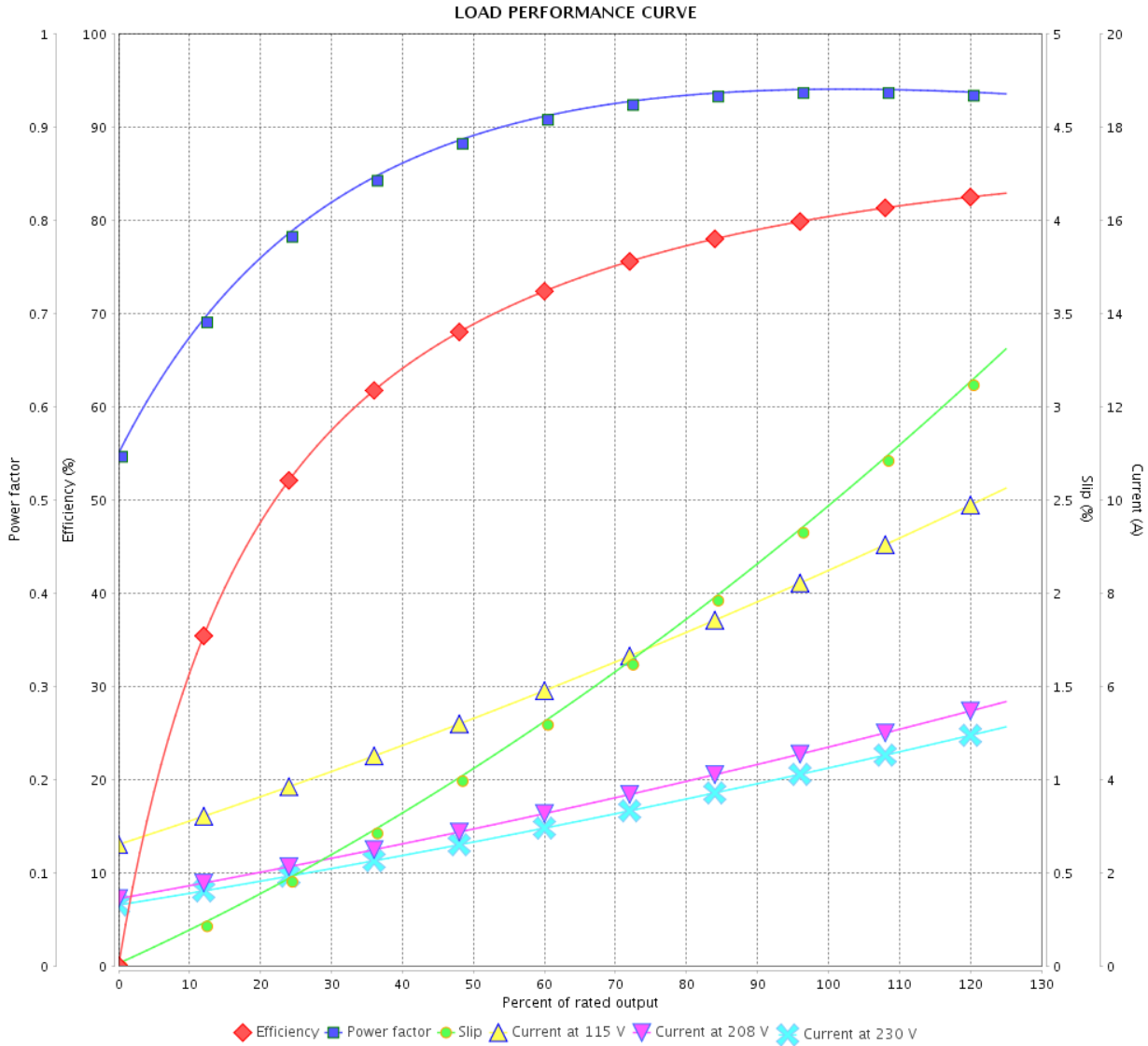
LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

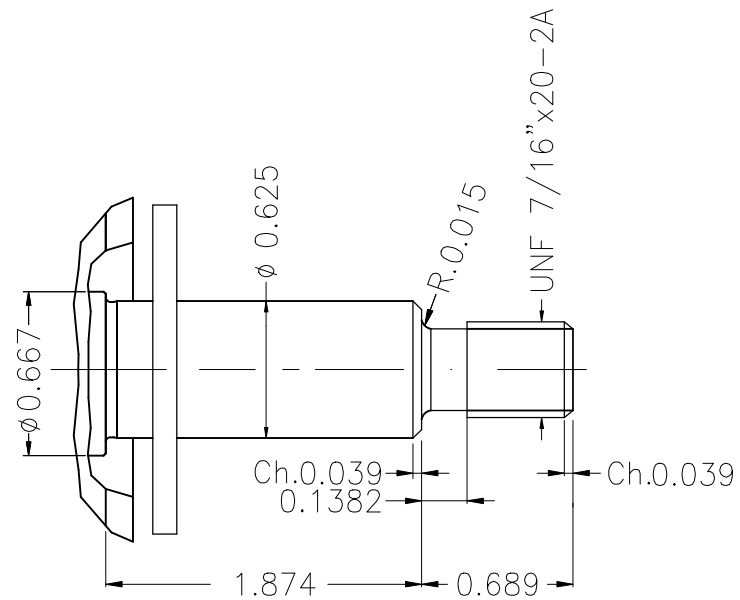
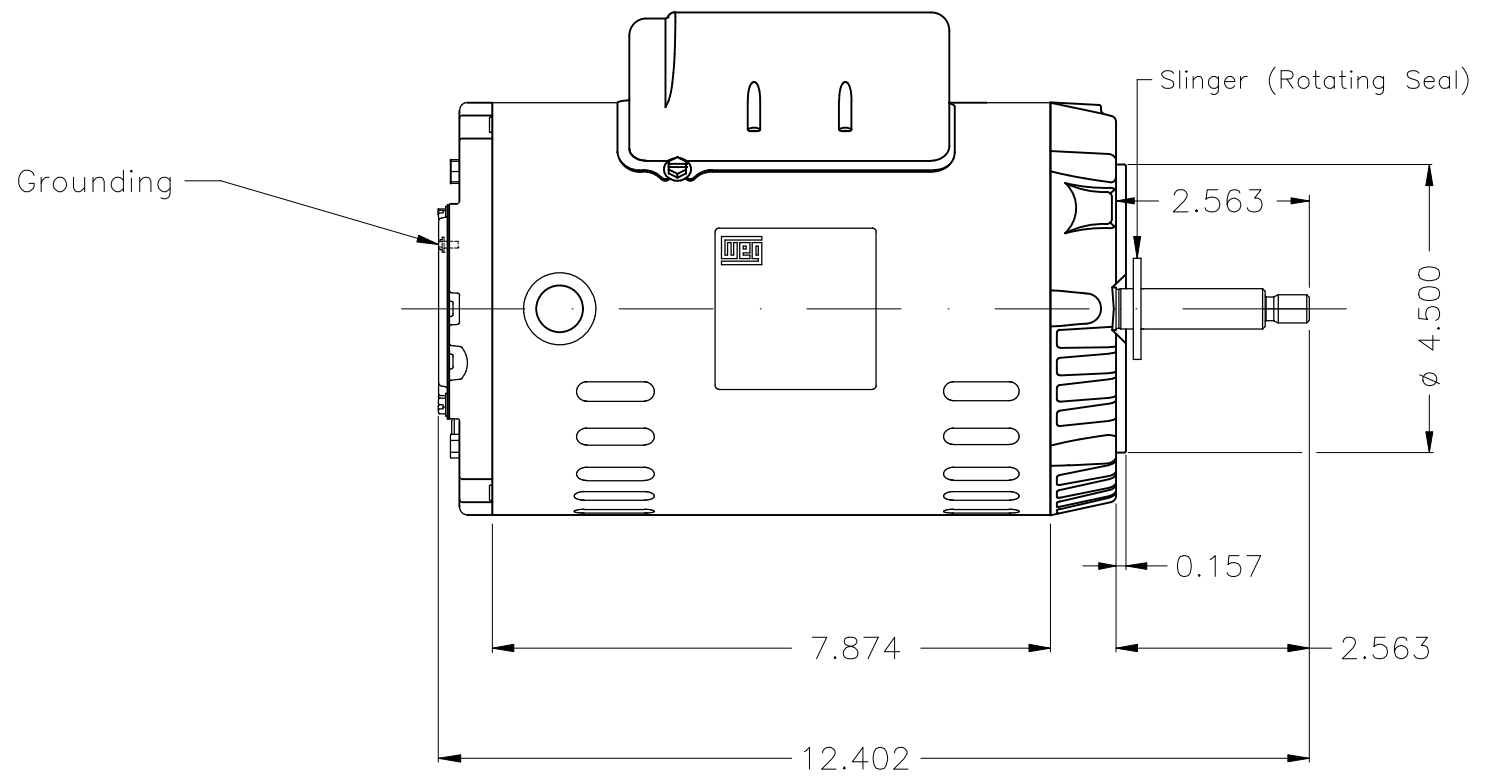
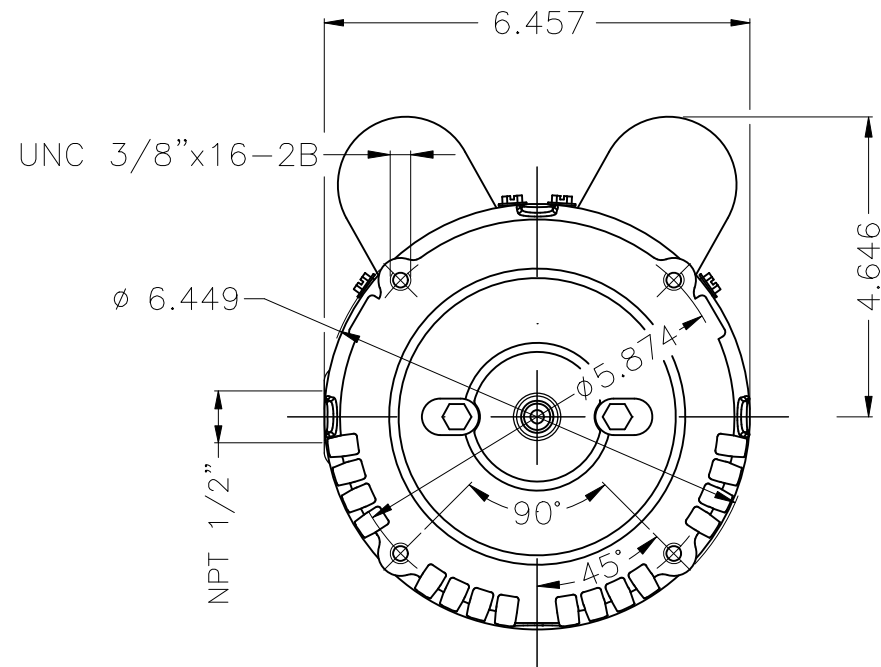
Product line : Jet Pump - J type Single-Phase Product code : 14581698



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

Rated current	: 8.60/4.75-4.30 A	Moment of inertia (J)	: 0.0023 kgm ²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.207 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	:
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
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 PREFFER					00
CHECKED		FRAME 56J IP21 ODP					
RELEASED							
REL. DATE	WMO	Jaragua do Sul	Product Engineering	WDD	00		

1 HP 02 Poles 60 Hz

A