

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :	
Product line	: Jet Pump - J type Single-Phase
Product code :	13997409
Frame	: W56J
Insulation class	: F
Duty cycle	: Cont.(S1)
Ambient temperature	: -20°C to +40°C
Altitude	: 1000 m.a.s.l.
Protection degree	: IP55
Design	: N
Cooling method	: IC411 - TEFC
Mounting	: F-1
Rotation ¹	: CCW
Starting method	: Direct On Line
Approx. weight ³	: 9.3 kg
Moment of inertia (J)	: 0.0020 kgm ²
Output [HP]	0.5
Poles	4
Frequency [Hz]	60
Rated voltage [V]	115/208-230
Rated current [A]	8.00/4.42-4.00
L. R. Amperes [A]	45.6/25.2-22.8
LRC [A]	5.7x(Code M)
No load current [A]	6.60/2.85-3.30
Rated speed [RPM]	1730
Slip [%]	3.89
Rated torque [kgfm]	0.210
Locked rotor torque [%]	320
Breakdown torque [%]	270
Service factor	
Temperature rise	80 K
Locked rotor time	18s (cold) 10s (hot)
Noise level ²	52.0 dB(A)
Efficiency (%)	25%
	50%
	75%
	100%
Power Factor	25%
	50%
	75%
	100%
Bearing type	: <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS
Sealing	: V'Ring V'Ring
Lubrication interval	: - -
Lubricant amount	: - -
Lubricant type	: Mobil Polyrex EM
Foundation loads	
Max. traction	: 13 kgf
Max. compression	: 22 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 by	Performed
Checked by	Checked
Date	16/05/2022
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Revision	

LOAD PERFORMANCE CURVE

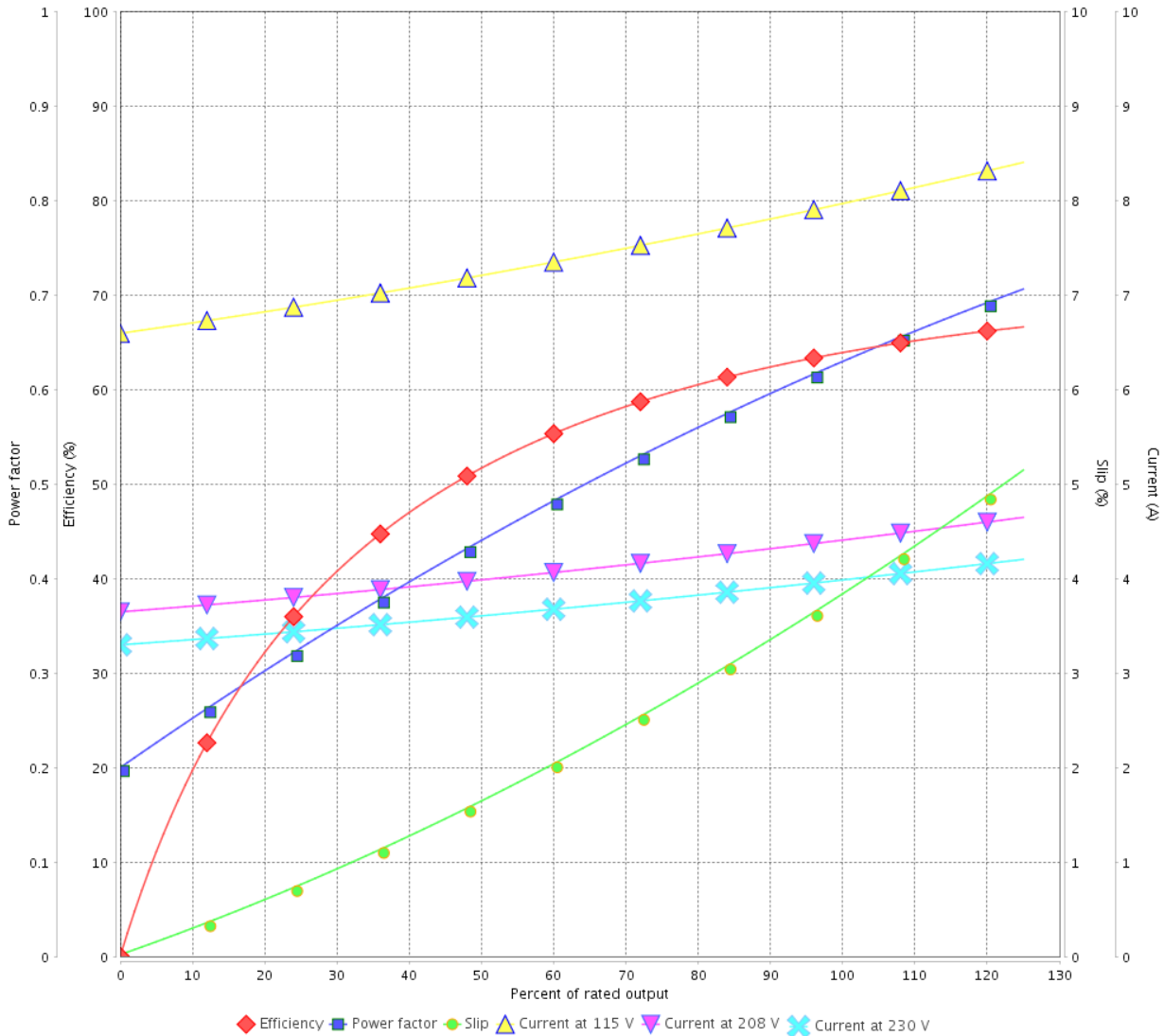
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Single-Phase Product code : 13997409

LOAD PERFORMANCE CURVE



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

Rated current : 8.00/4.42-4.00 A
 LRC : 5.7
 Rated torque : 0.210 kgfm
 Locked rotor torque : 320 %
 Breakdown torque : 270 %
 Rated speed : 1730 rpm

Moment of inertia (J) : 0.0020 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	16/05/2022			

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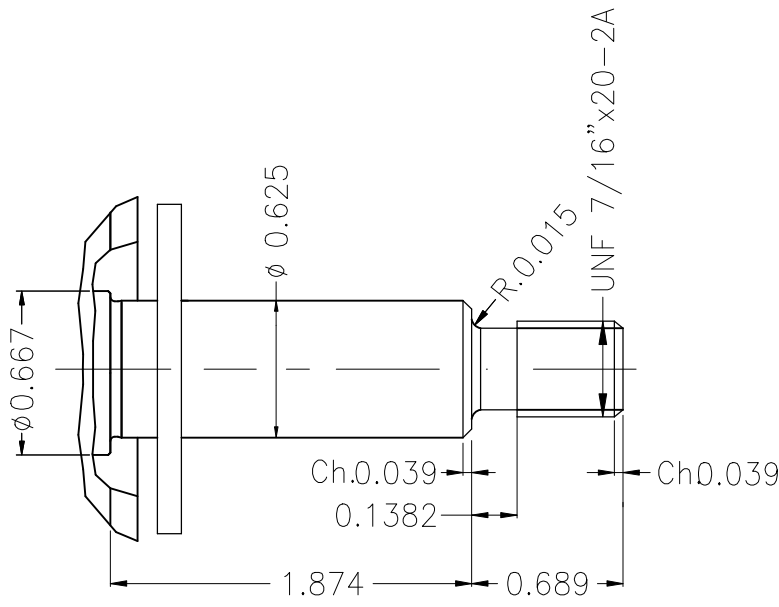
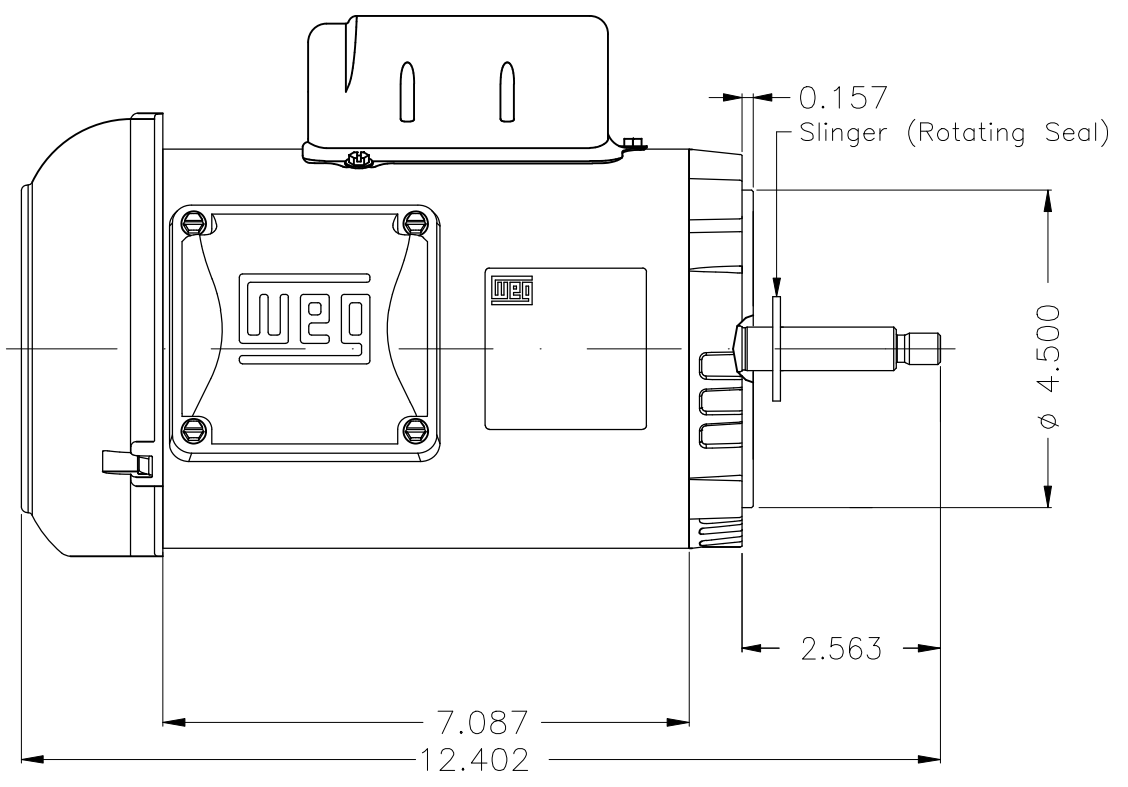
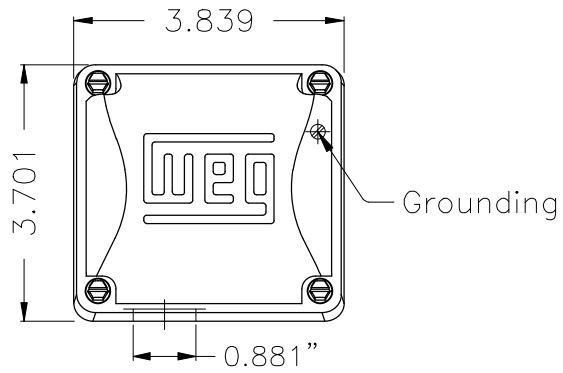
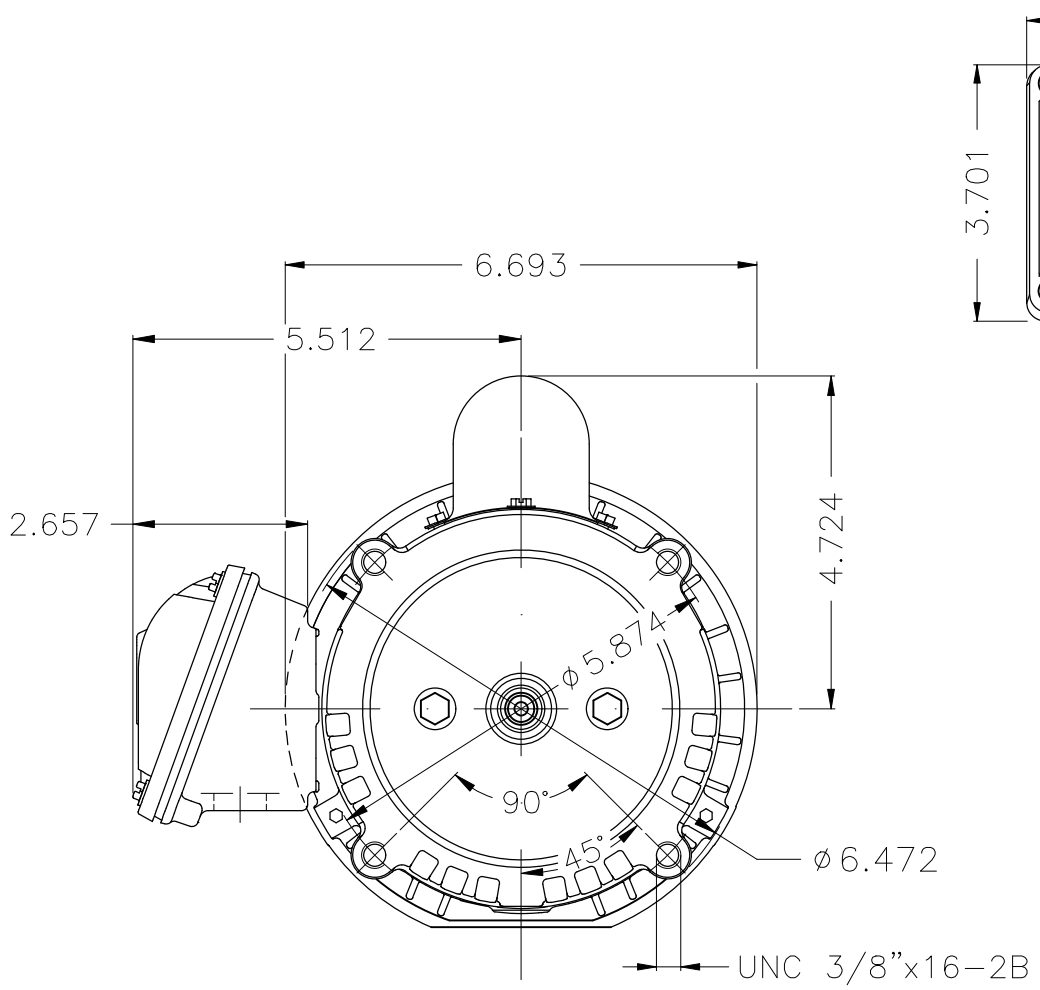
A

B

C

D

E



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 THREADED FRAME W56J IP55 TEFC				PREVIEW										
CHECKED						WDD		00								
RELEASED						SHEET		1 / 1								
REL. DATE		WMO	Jaragua do Sul	Product Engineering												

0.5 HP 04 Poles 60 Hz

A