DATA SHEET

Single Phase Induction Motor - Squirrel Cage

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

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]	: 13.8 kg
Design	: N	Moment of inertia (J)	: 0.0023 kgm²

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

		Drive end	Non drive end
Bearing type	:	6203 2RS	6202 2RS
Sealing	:	Without Bearing Seal	Without 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.

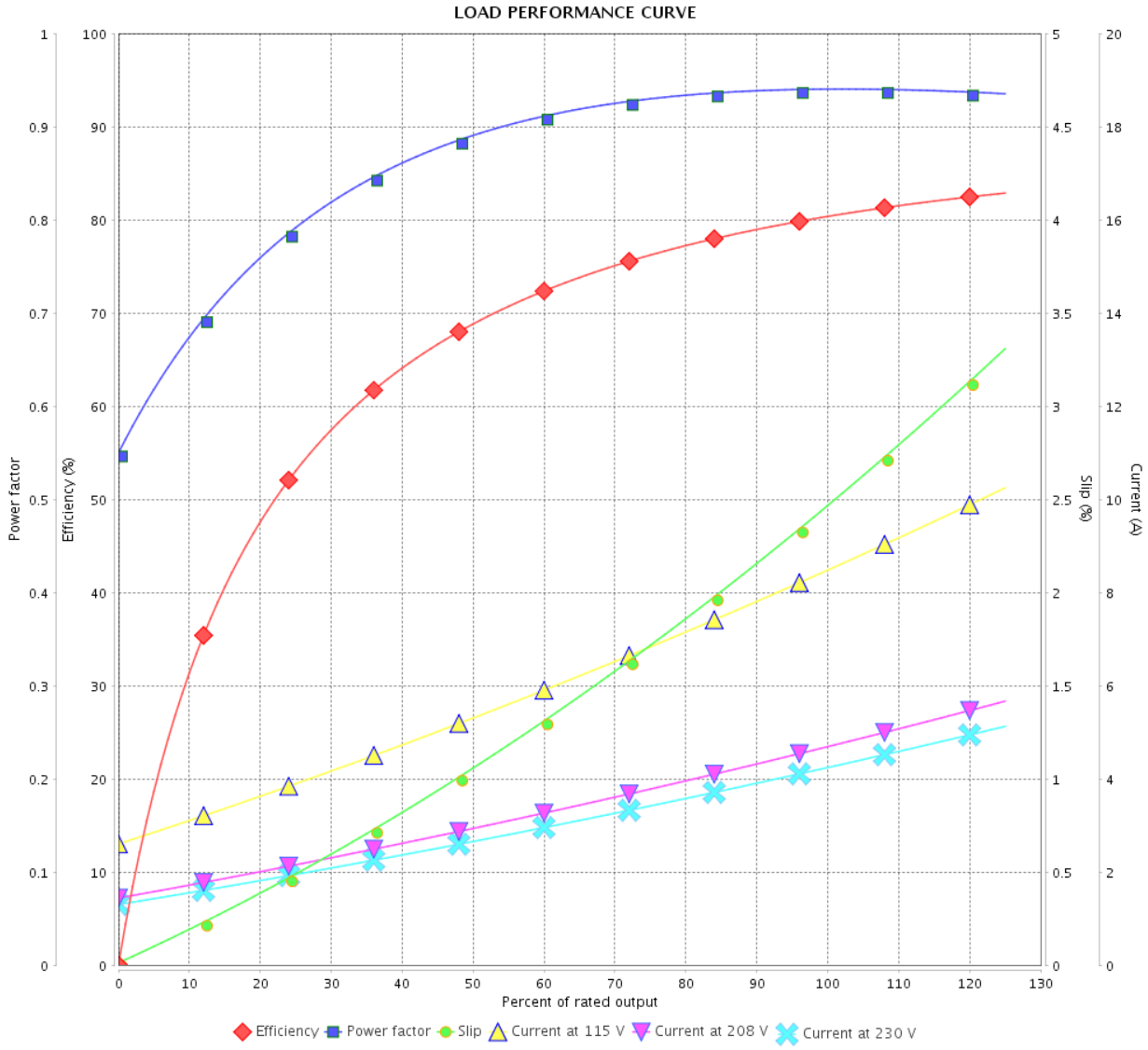
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	17/05/2022		1 / 2	

LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

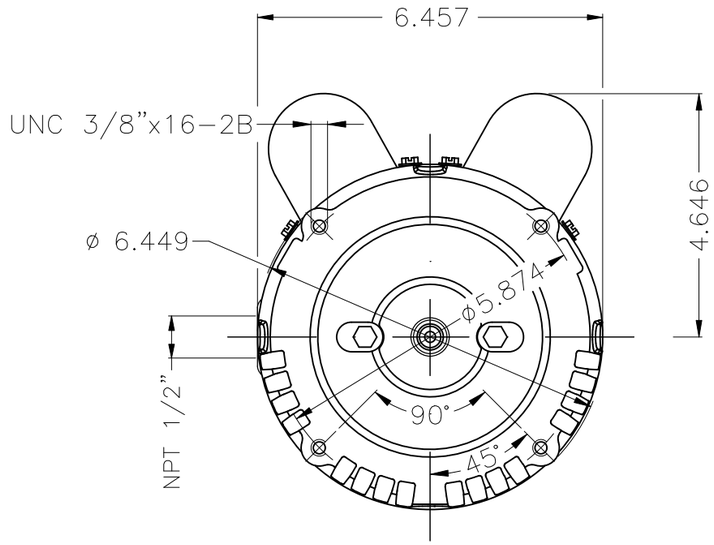
Customer	:		
Product line	: Jet Pump - J type Single-Phase	Product code :	14581698

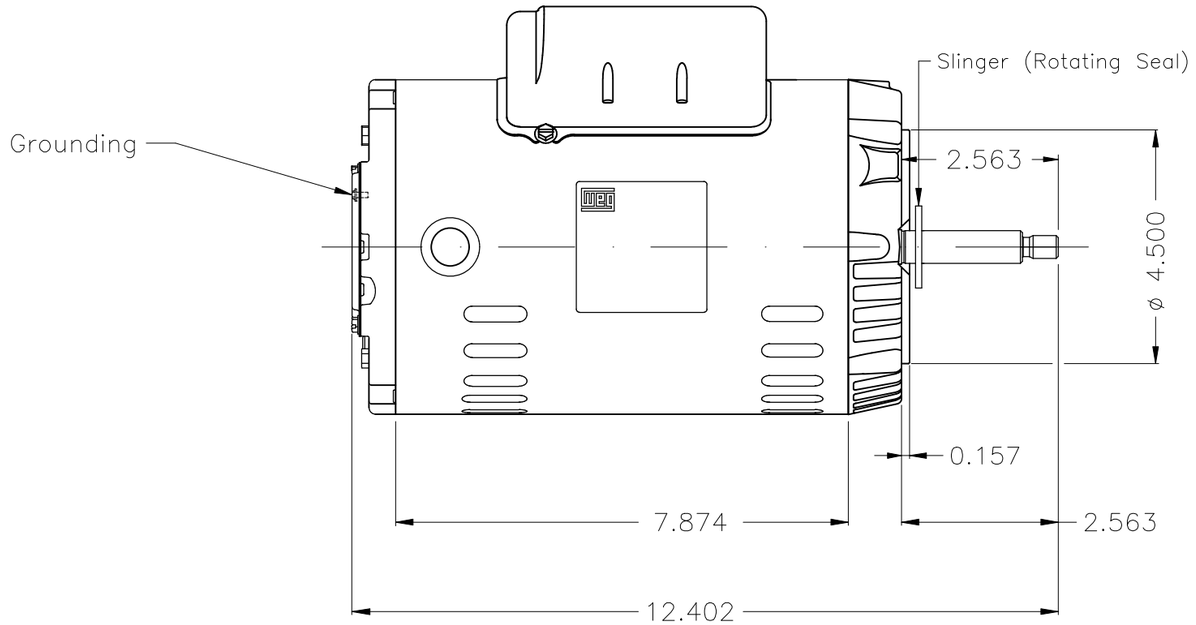


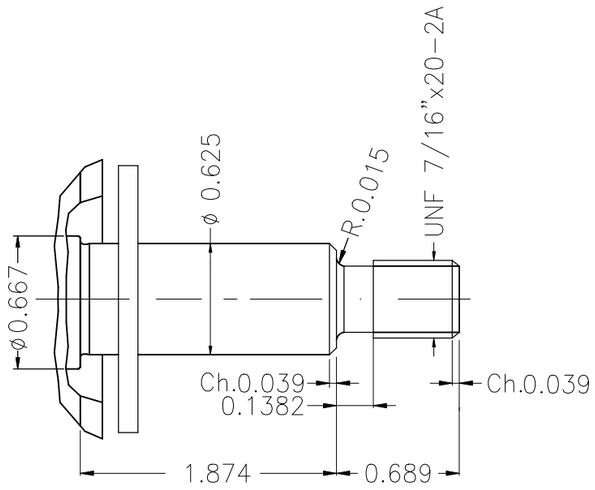
Performance	: 115/208-230 V 60 Hz 2P		
Rated current	: 8.60/4.75-4.30 A	Moment of inertia (J)	: 0.0023 kgm²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.207 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	:
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	17/05/2022		2 / 2	







Color Munsell N 1 matte black

Painting plan 207N

Mounting F-1/B14R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER	SINGLE PH. MOTOR ROLLED STEEL JET PUMP THREADED PREM.EFF.	PREVIEW		
CHECKED		FRAME 56J IP21 ODP			
RELEASED			WDD	00	
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1	

1 HP 02 Poles 60 Hz

A

Dimensions in inches

A3

XME