

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Jet Pump - J type Three-Phase	Product code : 14103958		
Frame	: W56J	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 : 11.5 kg		
Design	: A	Moment of inertia (J) : 0.0014 kgm ²		
Output [HP]		1.5		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		575		
Rated current [A]		1.69		
L. R. Amperes [A]		14.9		
LRC [A]		8.8x(Code L)		
No load current [A]		0.960		
Rated speed [RPM]		3450		
Slip [%]		4.17		
Rated torque [kgfm]		0.316		
Locked rotor torque [%]		400		
Breakdown torque [%]		430		
Service factor		1.30		
Temperature rise		80 K		
Locked rotor time		23s (cold) 13s (hot)		
Noise level ²		62.0 dB(A)		
Efficiency (%)	25%			
	50%	78.5		
	75%	82.5		
	100%	84.0		
Power Factor	25%			
	50%	0.59		
	75%	0.72		
	100%	0.78		
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 : 37 kgf		
Lubrication interval	: - -	Max. compression : 49 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	11/05/2022		1 / 2	

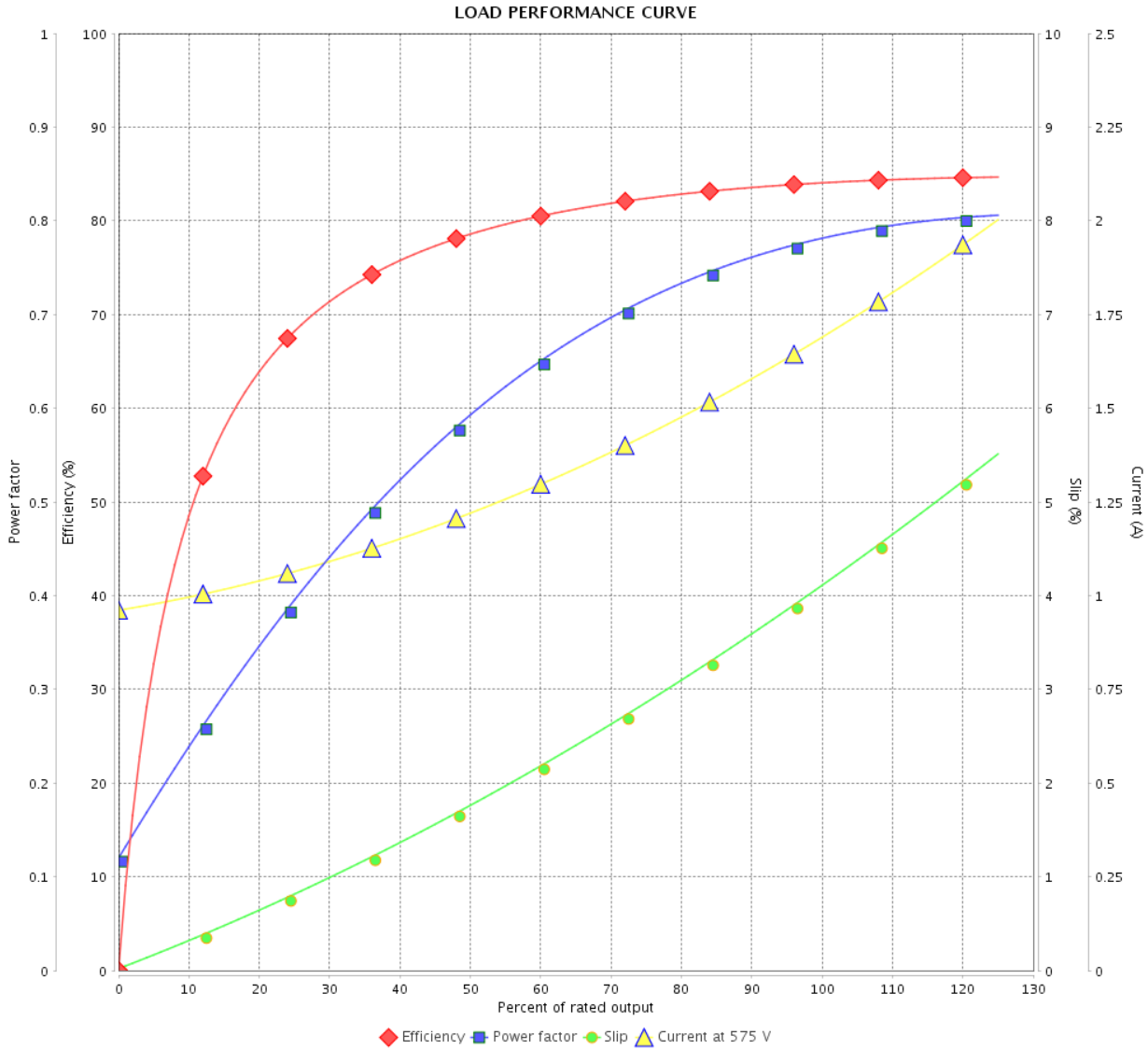
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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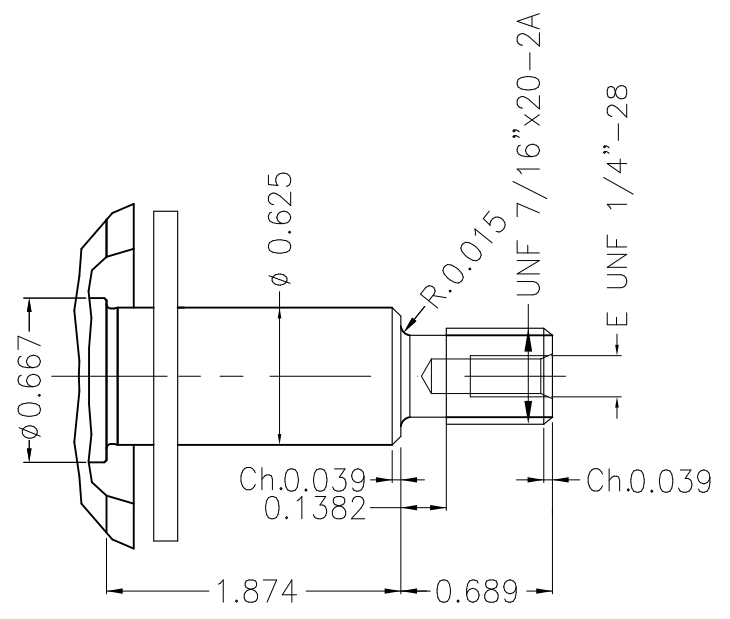
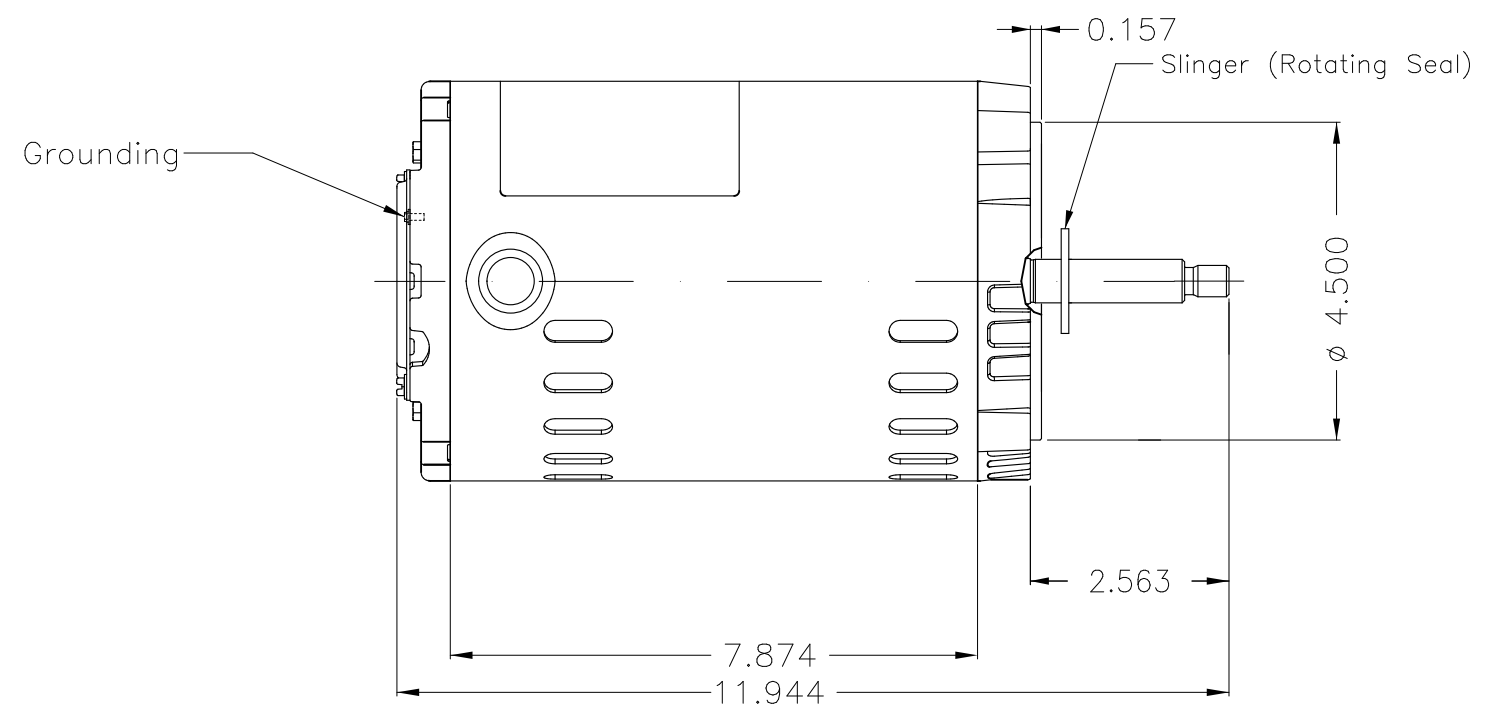
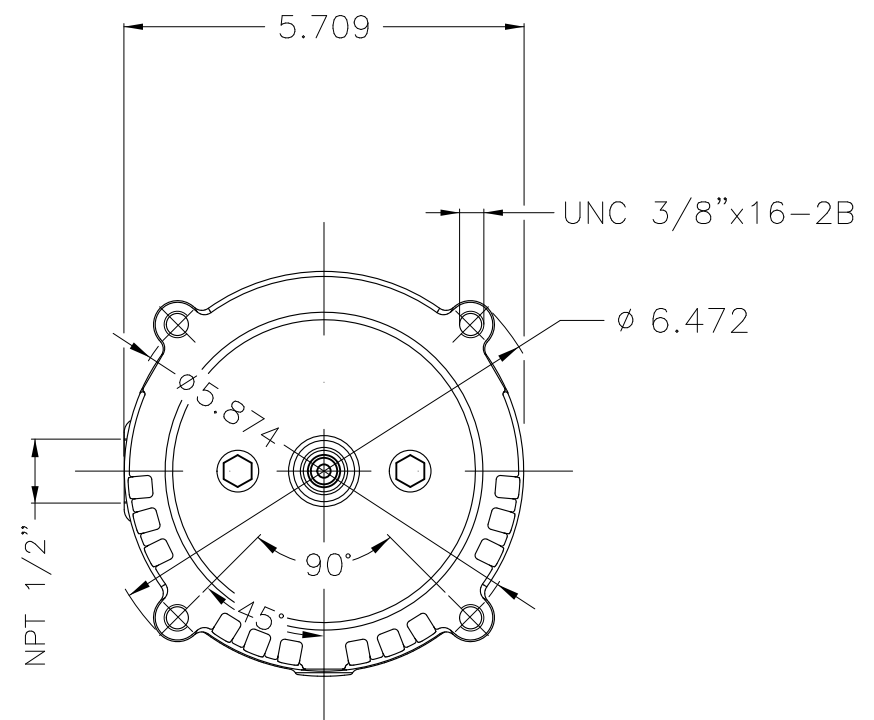
Performance : 575 V 60 Hz 2P

Rated current : 1.69 A
 LRC : 8.8
 Rated torque : 0.316 kgfm
 Locked rotor torque : 400 %
 Breakdown torque : 430 %
 Rated speed : 3450 rpm

Moment of inertia (J) : 0.0014 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.30
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
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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		THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED PUMP	PREVIEW WDD 00 SHEET 1 / 1	
CHECKED			FRAME W56J IP21 ODP		
RELEASED					
REL. DATE		WMO	Jaragua do Sul	Product Engineering	

1.5 HP 02 Poles 60 Hz

Dimensions in inches XME A3