

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Jet Pump - J type Premium Efficiency Three-Phase	Product code : 14902007		
Frame	: W56J	Cooling method	: IC01 - ODP		
Insulation class	: F	Mounting	: W-6		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: CCW		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 7.6 kg		
		Moment of inertia (J)	: 0.0008 kgm <sup>2</sup>		
Output [HP]	0.75	0.75	0.75		
Poles	2	2	2		
Frequency [Hz]	60	50	50		
Rated voltage [V]	208-230/460	190-220/380	415		
Rated current [A]	2.61-2.36/1.18	2.76-2.38/1.38	1.40		
L. R. Amperes [A]	20.4-18.4/9.20	17.7-15.3/8.83	9.66		
LRC [A]	7.8x(Code L)	6.4x(Code J)	6.9x(Code L)		
No load current [A]	1.38-1.60/0.800	1.50-1.30/0.750	1.00		
Rated speed [RPM]	3450	2820	2850		
Slip [%]	4.17	6.00	5.00		
Rated torque [kgfm]	0.158	0.193	0.191		
Locked rotor torque [%]	370	300	370		
Breakdown torque [%]	400	280	330		
Service factor		1.50	1.50		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	32s (cold) 18s (hot)	32s (cold) 18s (hot)	27s (cold) 15s (hot)		
Noise level <sup>2</sup>	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)		
Efficiency (%)	25%				
	50%	68.0	71.0	67.0	
	75%	72.0	74.0	72.0	
	100%	76.8	74.0	74.0	
Power Factor	25%				
	50%	0.57	0.62	0.50	
	75%	0.69	0.75	0.64	
	100%	0.76	0.82	0.74	
Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads			
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 16 kgf		
		Max. compression	: 24 kgf		
Lubrication interval	: - -				
Lubricant amount	: - -				
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V SF 1.00					
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 / 4	

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

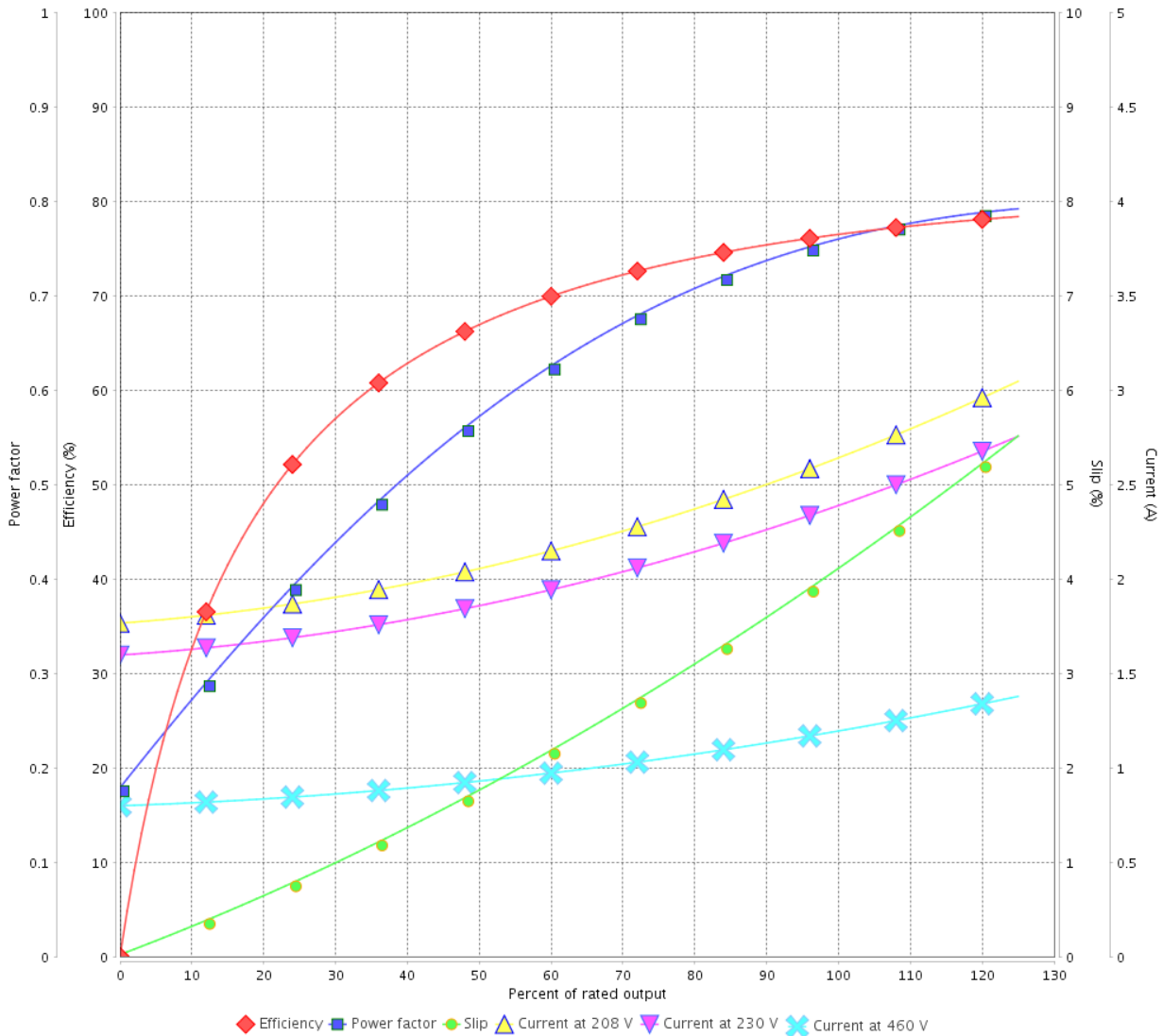


Customer :

Product line : Jet Pump - J type Premium  
Efficiency Three-Phase

Product code : 14902007

LOAD PERFORMANCE CURVE



Performance : 208-230/460 V 60 Hz 2P

Rated current : 2.61-2.36/1.18 A  
 LRC : 7.8  
 Rated torque : 0.158 kgfm  
 Locked rotor torque : 370 %  
 Breakdown torque : 400 %  
 Rated speed : 3450 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

# LOAD PERFORMANCE CURVE

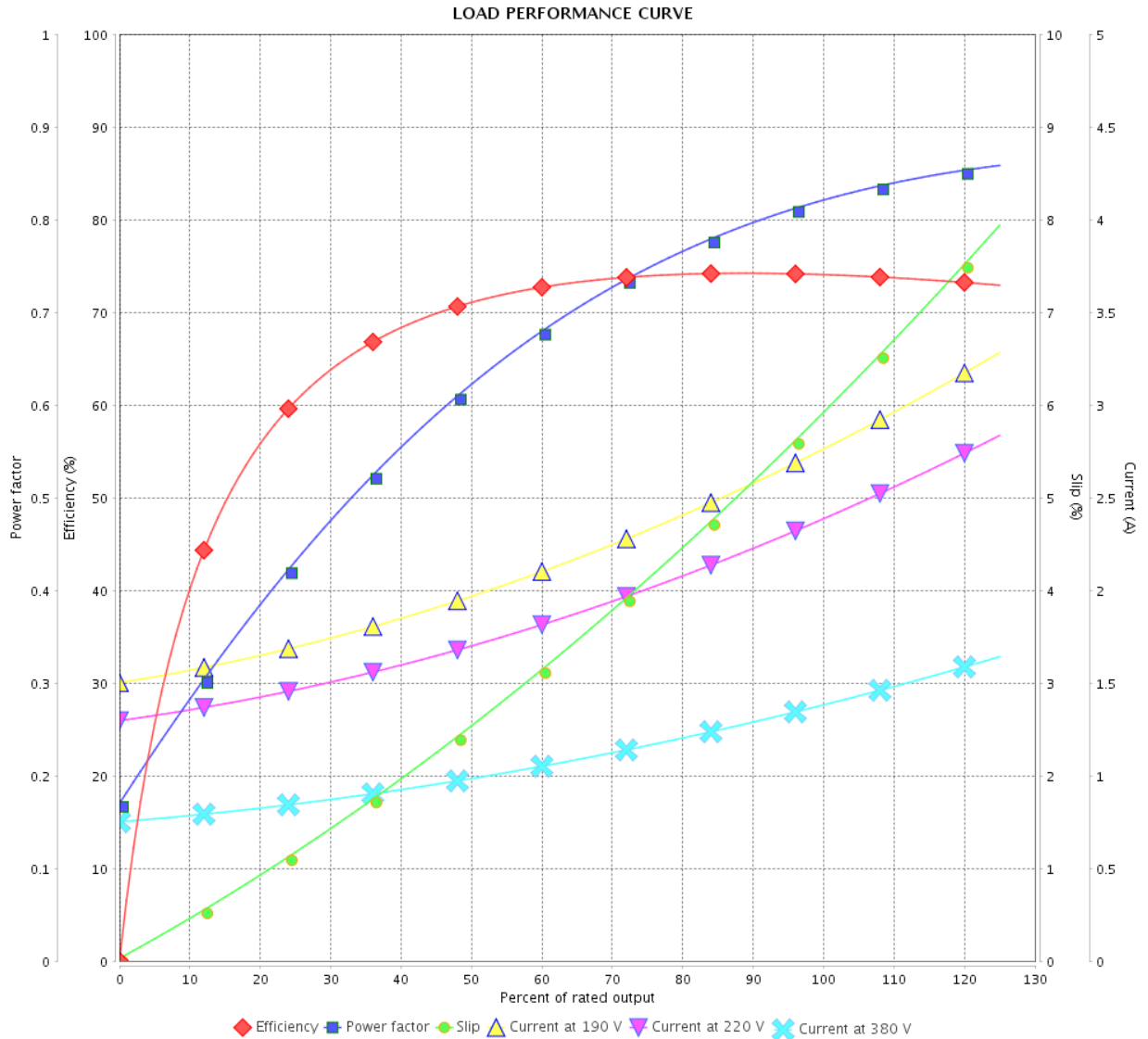
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Premium  
Efficiency Three-Phase

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Performance : 190-220/380 V 50 Hz 2P

Rated current : 2.76-2.38/1.38 A  
 LRC : 6.4  
 Rated torque : 0.193 kgfm  
 Locked rotor torque : 300 %  
 Breakdown torque : 280 %  
 Rated speed : 2820 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.50  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

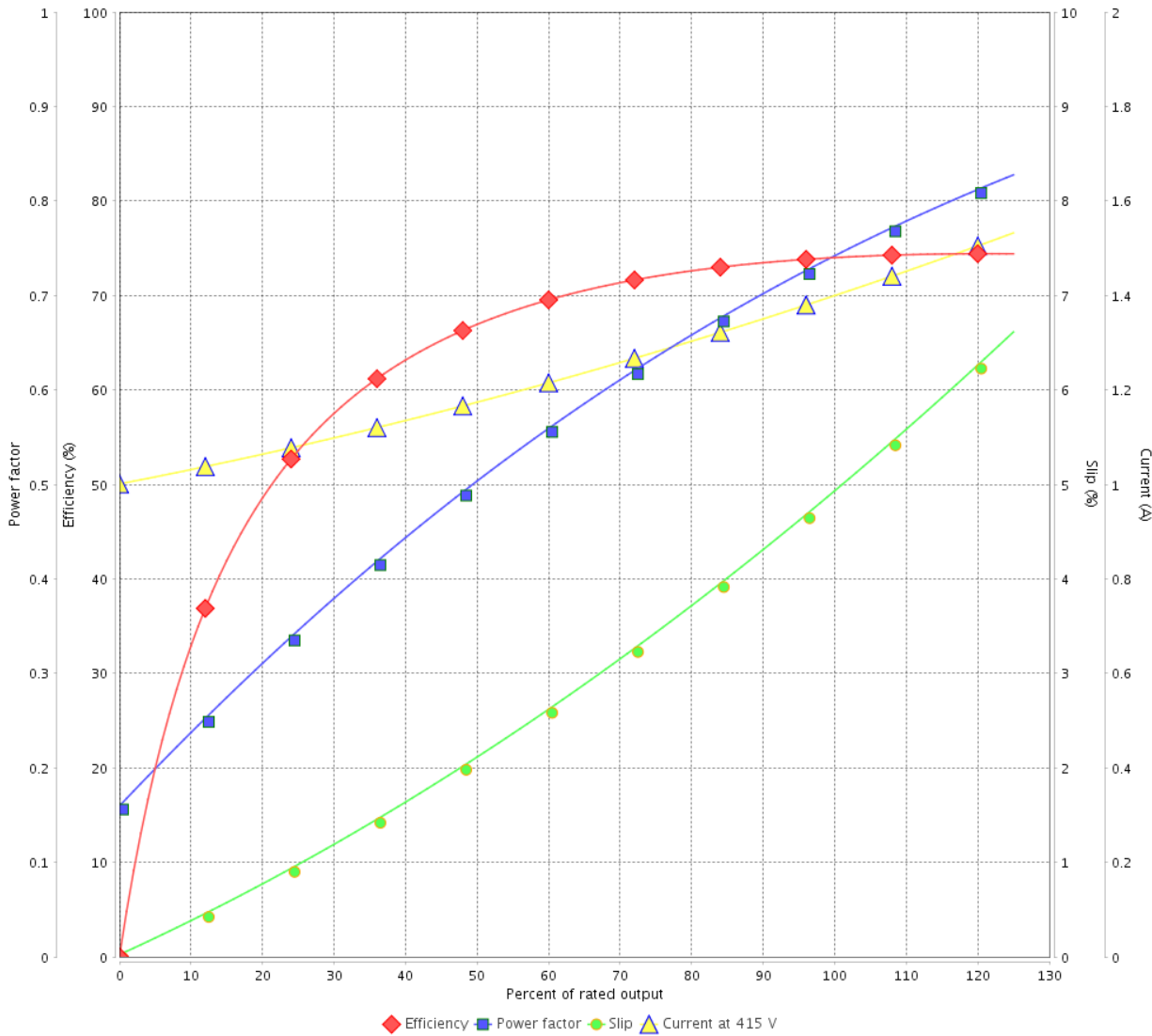


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LOAD PERFORMANCE CURVE



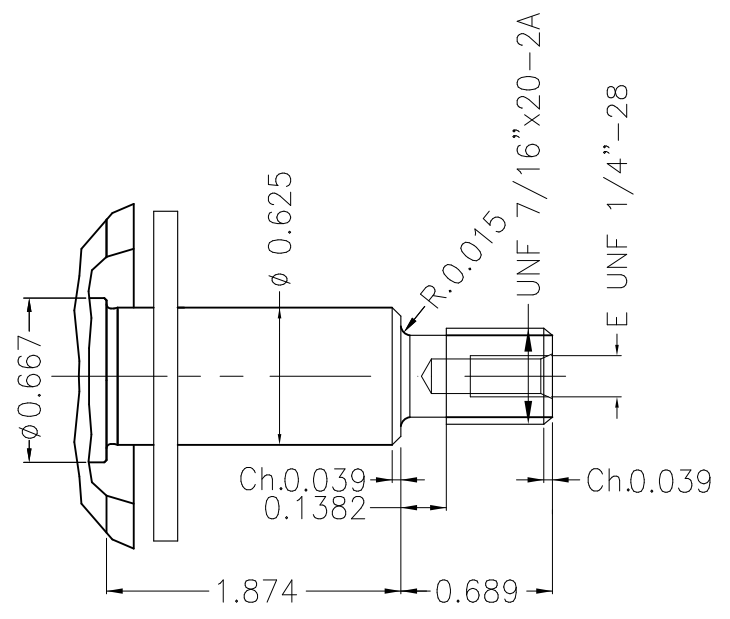
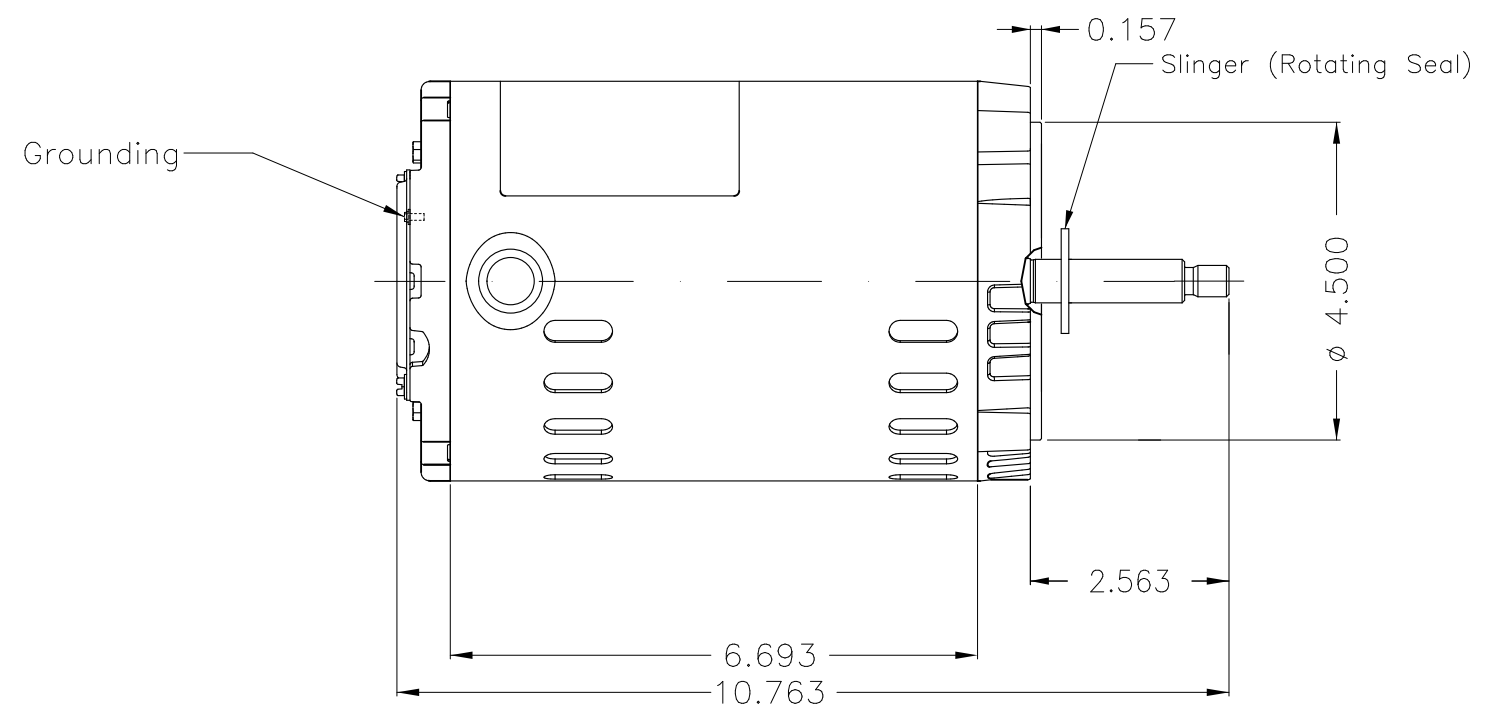
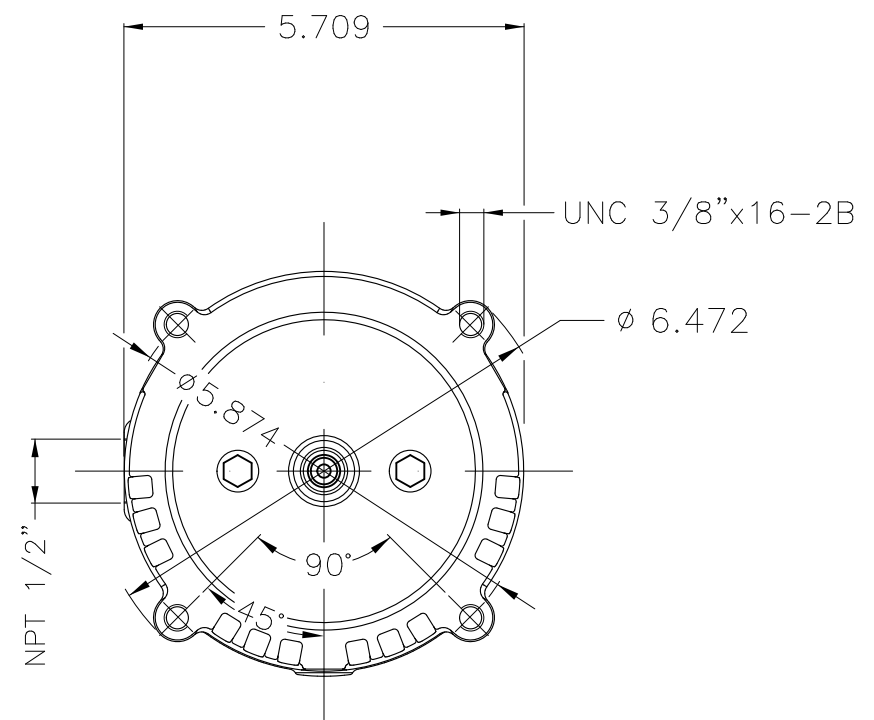
Performance : 415 V 50 Hz 2P

Rated current : 1.40 A  
LRC : 6.9  
Rated torque : 0.191 kgfm  
Locked rotor torque : 370 %  
Breakdown torque : 330 %  
Rated speed : 2850 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.50  
Temperature rise : 80 K

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 W-6/V18R(D)

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

EXECUTED	HYBRISUSER		THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED PUMP	<b>PREVIEW</b> WDD 00 SHEET 1 / 1	
CHECKED			FRAME W56J IP21 ODP		
RELEASED					
REL. DATE		WMO	Jaragua do Sul	Product Engineering	

0.75 HP 02 Poles 60 Hz

Dimensions in inches XME A3