

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Jet Pump - J type Three-Phase	Product code :	13721753	
Frame	: W56J	Cooling method	: IC411 - TEFC	
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>	: 8.4 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0009 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	190/380	220/415	
Rated current [A]	2.48-2.24/1.12	2.60/1.30	2.34/1.24	
L. R. Amperes [A]	20.1-18.1/9.07	15.6/7.80	16.4/8.68	
LRC [A]	8.1x(Code L)	6.0x(Code H)	7.0x(Code K)	
No load current [A]	1.07-1.24/0.622	1.22/0.609	1.37/0.727	
Rated speed [RPM]	3440	2770	2810	
Slip [%]	4.44	7.67	6.33	
Rated torque [kgfm]	0.158	0.196	0.194	
Locked rotor torque [%]	350	260	310	
Breakdown torque [%]	360	240	290	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	28s (cold) 16s (hot)	28s (cold) 16s (hot)	21s (cold) 12s (hot)	
Noise level <sup>2</sup>	65.0 dB(A)	64.0 dB(A)	64.0 dB(A)	
Efficiency (%)	25%			
	50%	70.0	73.1	
	75%	75.5	76.8	
	100%	77.0	77.2	
Power Factor	25%			
	50%	0.62	0.61	
	75%	0.74	0.74	
	100%	0.80	0.80	
Bearing type	: <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction	: 13 kgf	
Lubrication interval	: - -	Max. compression	: 22 kgf	
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	16/05/2022		1 / 4	

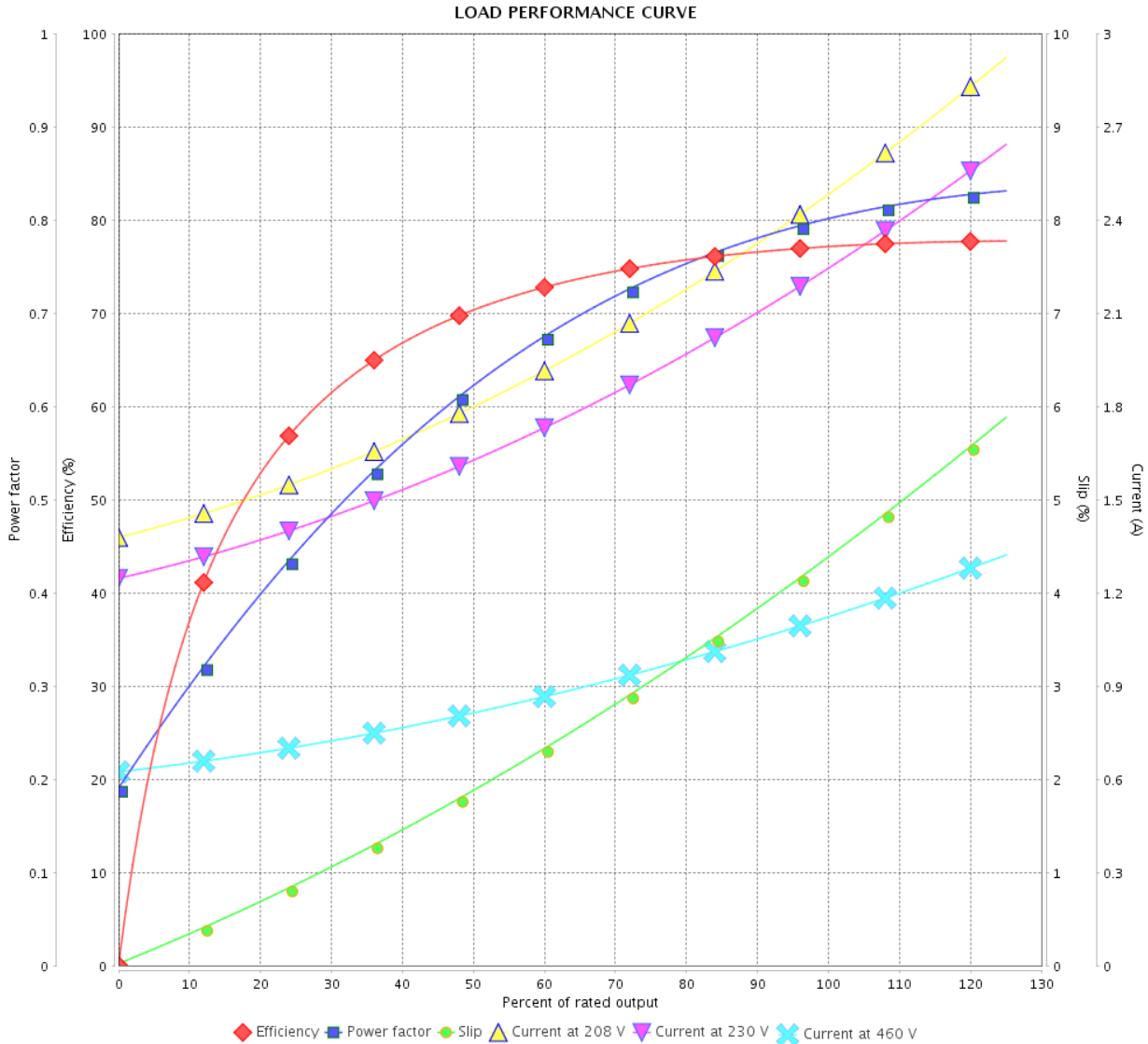
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase      Product code : 13721753



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

Rated current : 2.48-2.24/1.12 A  
 LRC : 8.1  
 Rated torque : 0.158 kgfm  
 Locked rotor torque : 350 %  
 Breakdown torque : 360 %  
 Rated speed : 3440 rpm

Moment of inertia (J) : 0.0009 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Date				

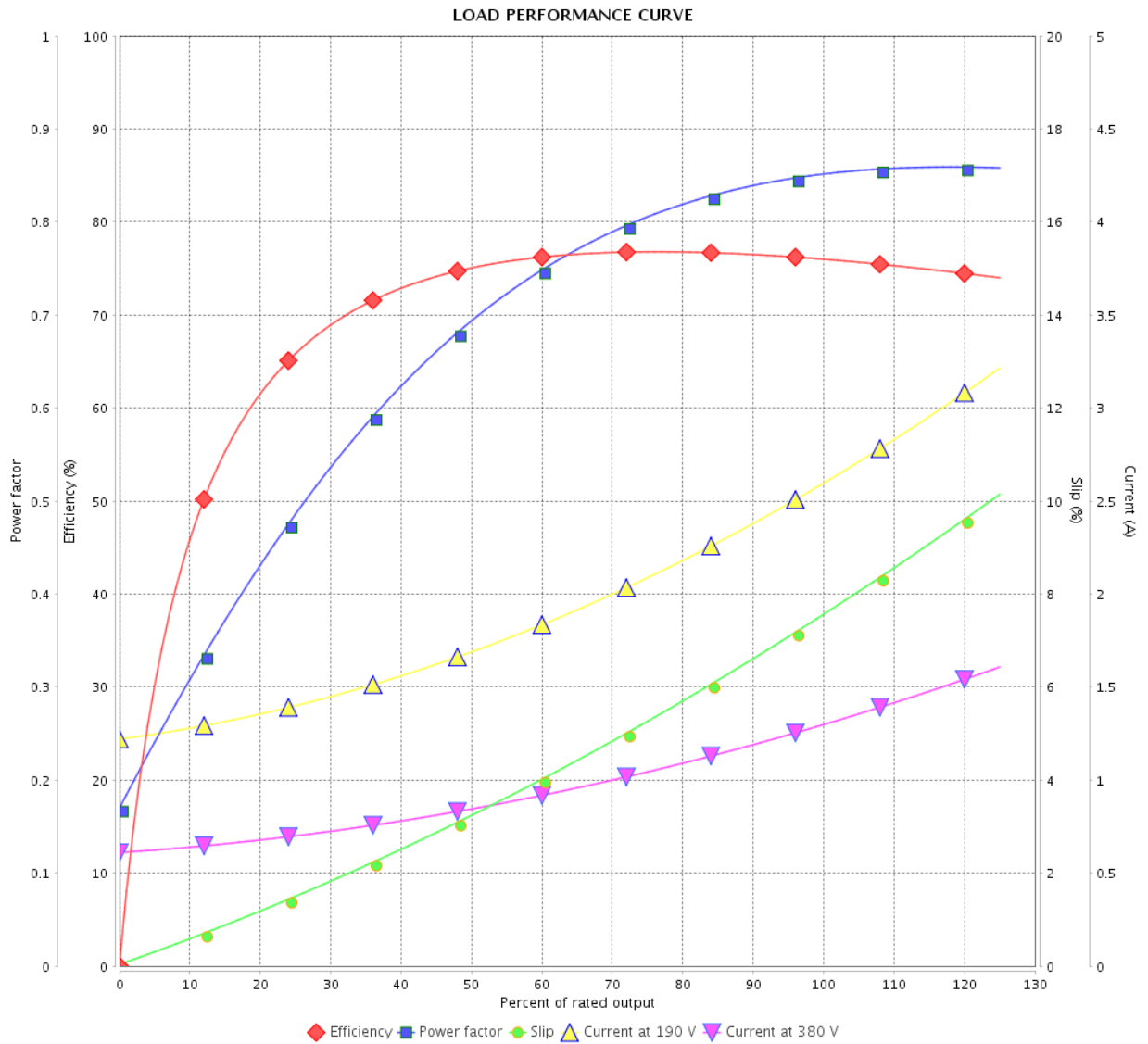
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Jet Pump - J type Three-Phase      Product code : 13721753



Performance : 190/380 V 50 Hz 2P

Rated current : 2.60/1.30 A  
 LRC : 6.0  
 Rated torque : 0.196 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 240 %  
 Rated speed : 2770 rpm

Moment of inertia (J) : 0.0009 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
Date				

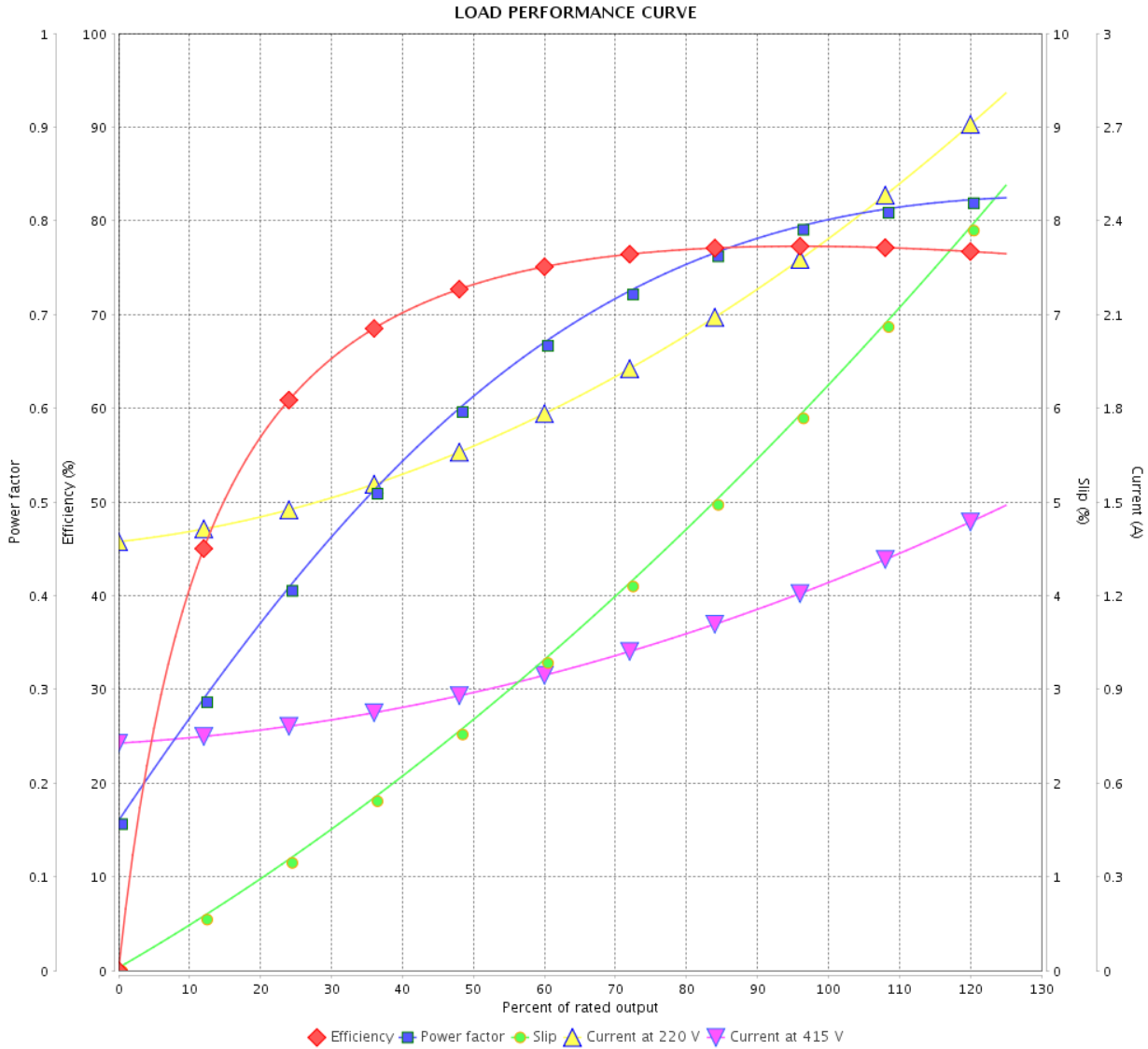
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Three-Phase      Product code : 13721753



Performance : 220/415 V 50 Hz 2P

Rated current : 2.34/1.24 A  
 LRC : 7.0  
 Rated torque : 0.194 kgfm  
 Locked rotor torque : 310 %  
 Breakdown torque : 290 %  
 Rated speed : 2810 rpm

Moment of inertia (J) : 0.0009 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Date	16/05/2022			

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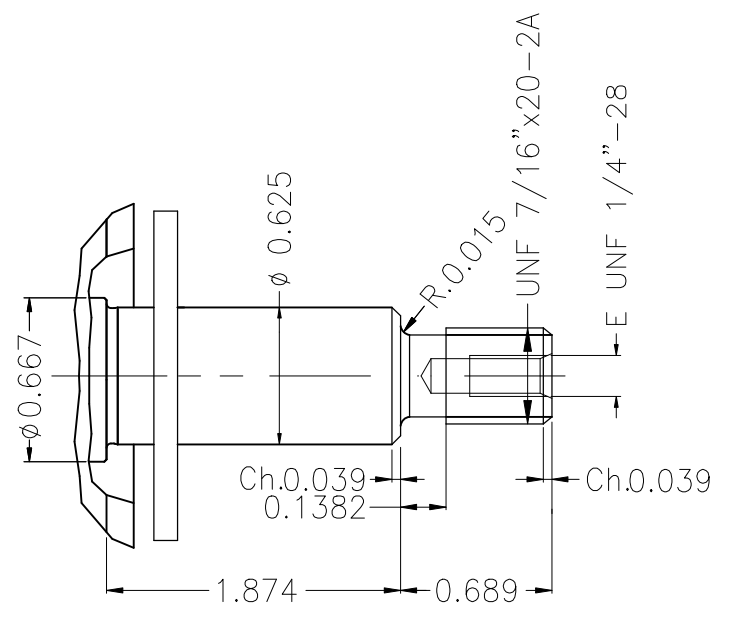
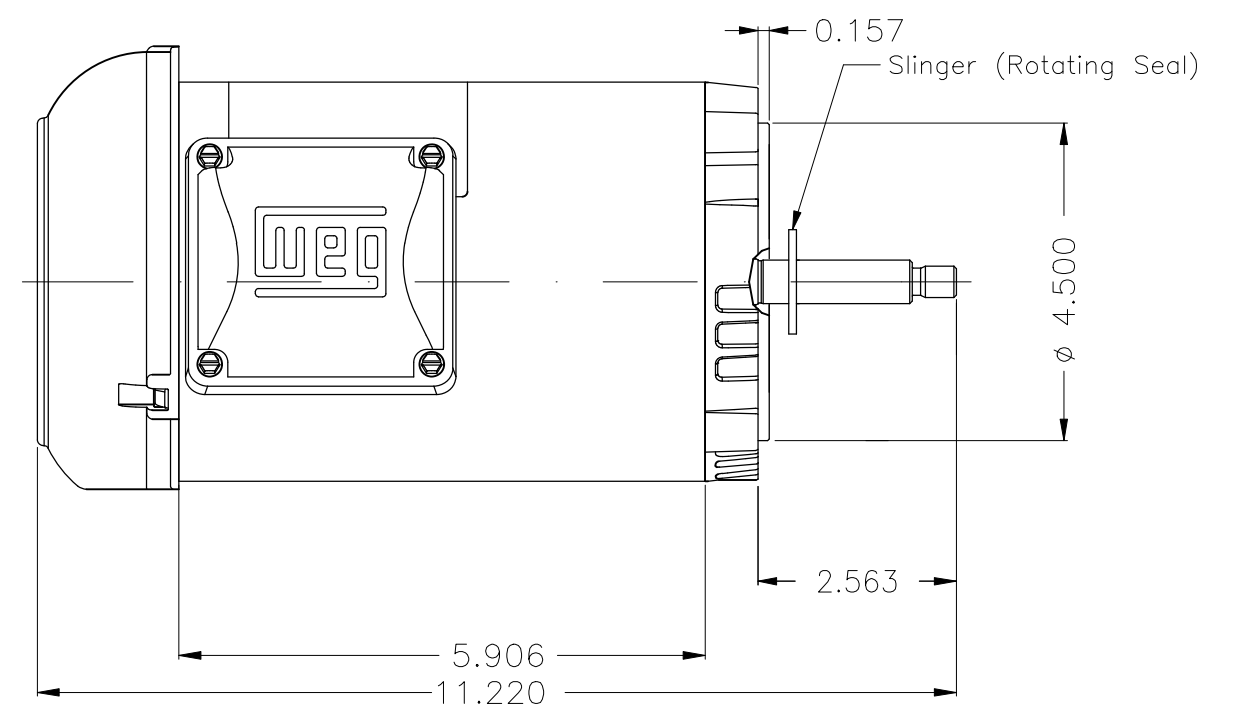
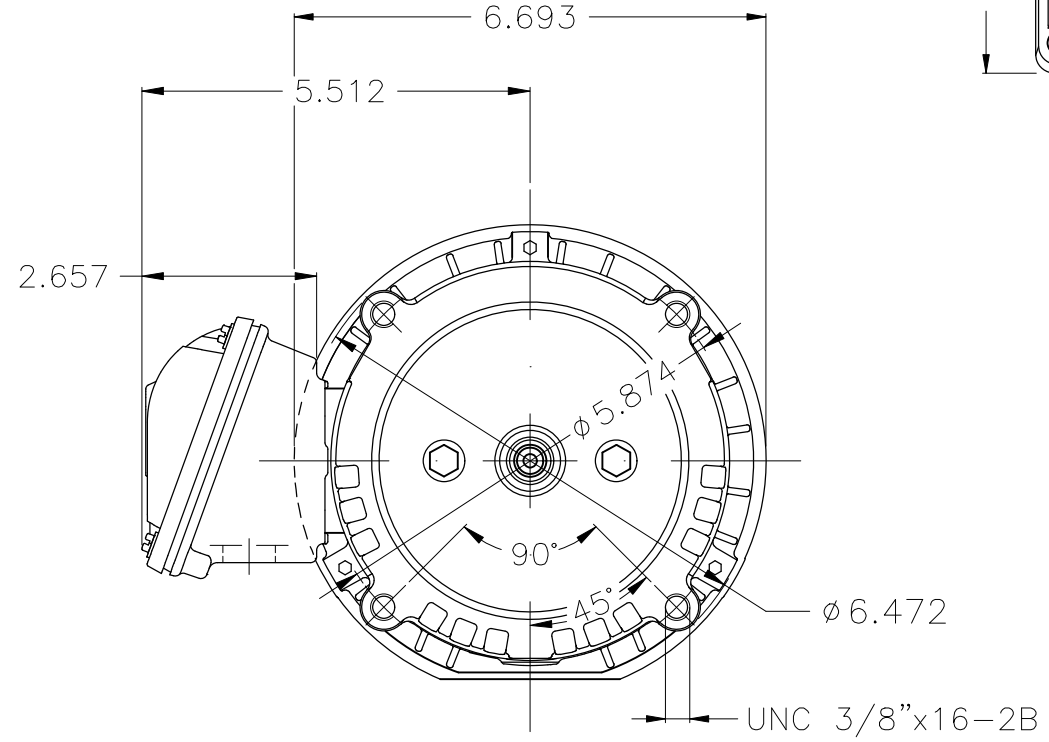
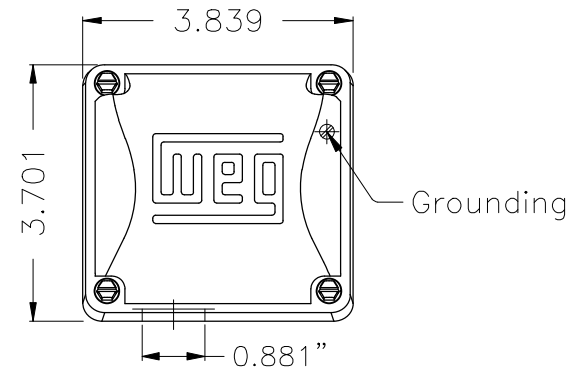
A

B

C

D

E



NDE sealing - V ring  
 Color Munsell N 1 matte black  
 Painting plan 207N  
 Mounting W-6/V18R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED PREL. SET					
CHECKED		FRAME W56J IP55 TEFC					
RELEASED							

REL. DATE: WMO Jaragua do Sul Product Engineering SHEET 1 / 1

HYBRISUSER 00

WDD 00

PREVIEW

0.75 HP 02 Poles 60 Hz

A