

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Three-Phase Product code : 13722358

Frame	: 56C	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: W-6
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	: 15.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0043 kgm ²
Design	: B		

Output [HP]	1.5	1.5	1.5
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	3.74/1.87	4.44/2.22	3.90/2.07
L. R. Amperes [A]	34.0/17.0	32.0/16.0	33.2/17.6
LRC [A]	9.1x(Code L)	7.2x(Code H)	8.5x(Code K)
No load current [A]	1.72/0.859	1.69/0.845	1.83/0.971
Rated speed [RPM]	3520	2895	2915
Slip [%]	2.22	3.50	2.83
Rated torque [kgfm]	0.309	0.376	0.373
Locked rotor torque [%]	229	190	240
Breakdown torque [%]	300	280	330
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	30s (cold) 17s (hot)	28s (cold) 16s (hot)	25s (cold) 14s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%		
	50%	80.0	81.7
	75%	82.5	84.0
	100%	84.0	83.9
Power Factor	25%		
	50%	0.71	0.70
	75%	0.82	0.82
	100%	0.88	0.88

	Drive end	Non drive end	Foundation loads
Bearing type	: 6203 2RS	6202 2RS	Max. traction : 32 kgf
Sealing	: V'Ring	V'Ring	Max. compression : 47 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 4.13A SF 1.00 SFA 4.13A

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				
Date	17/05/2022			
			Page	Revision
			1 / 4	

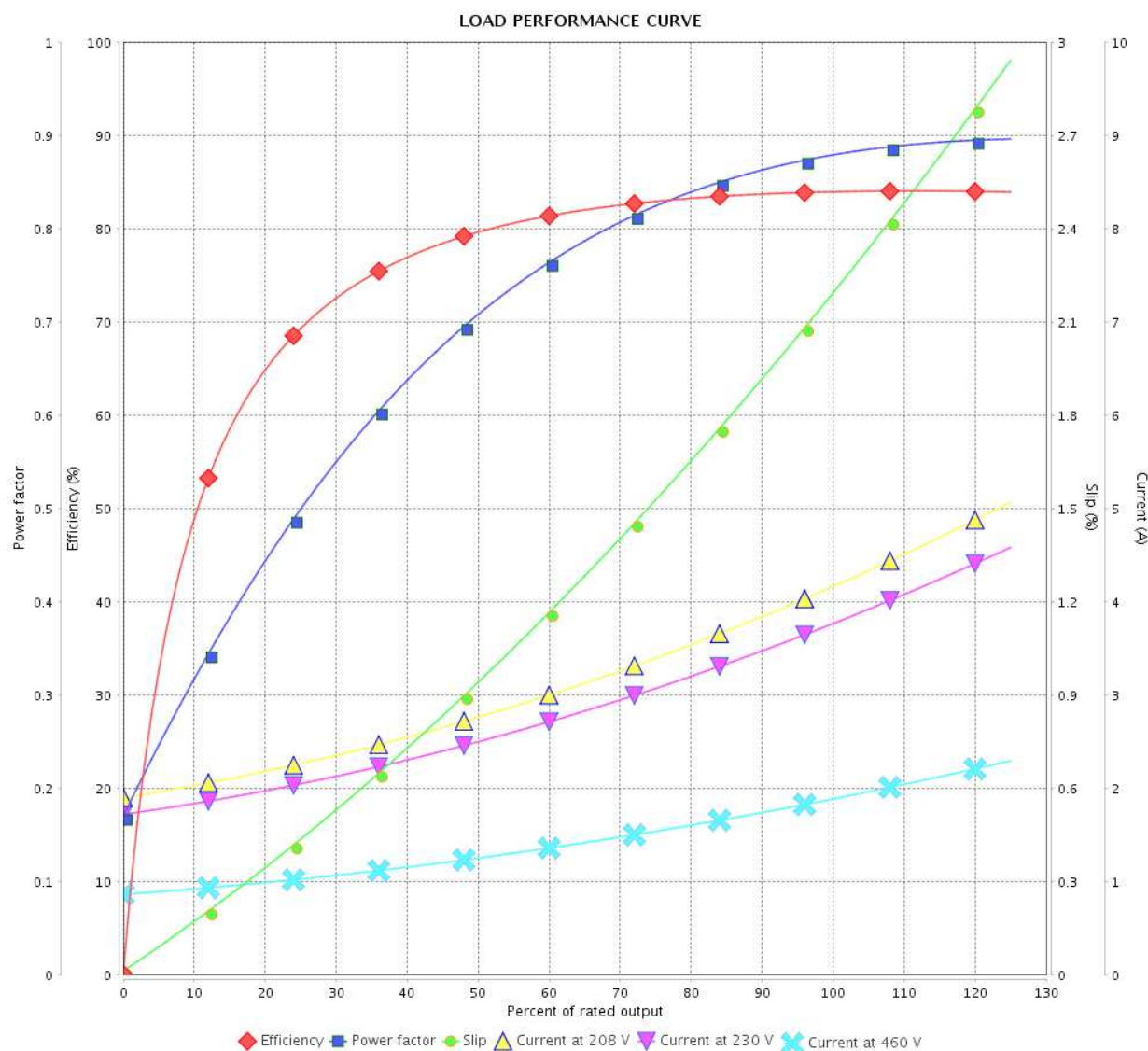
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Three-Phase Product code : 13722358



Performance : 230/460 V 60 Hz 2P

Rated current : 3.74/1.87 A
 LRC : 9.1
 Rated torque : 0.309 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.0043 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 4	
Date					

LOAD PERFORMANCE CURVE

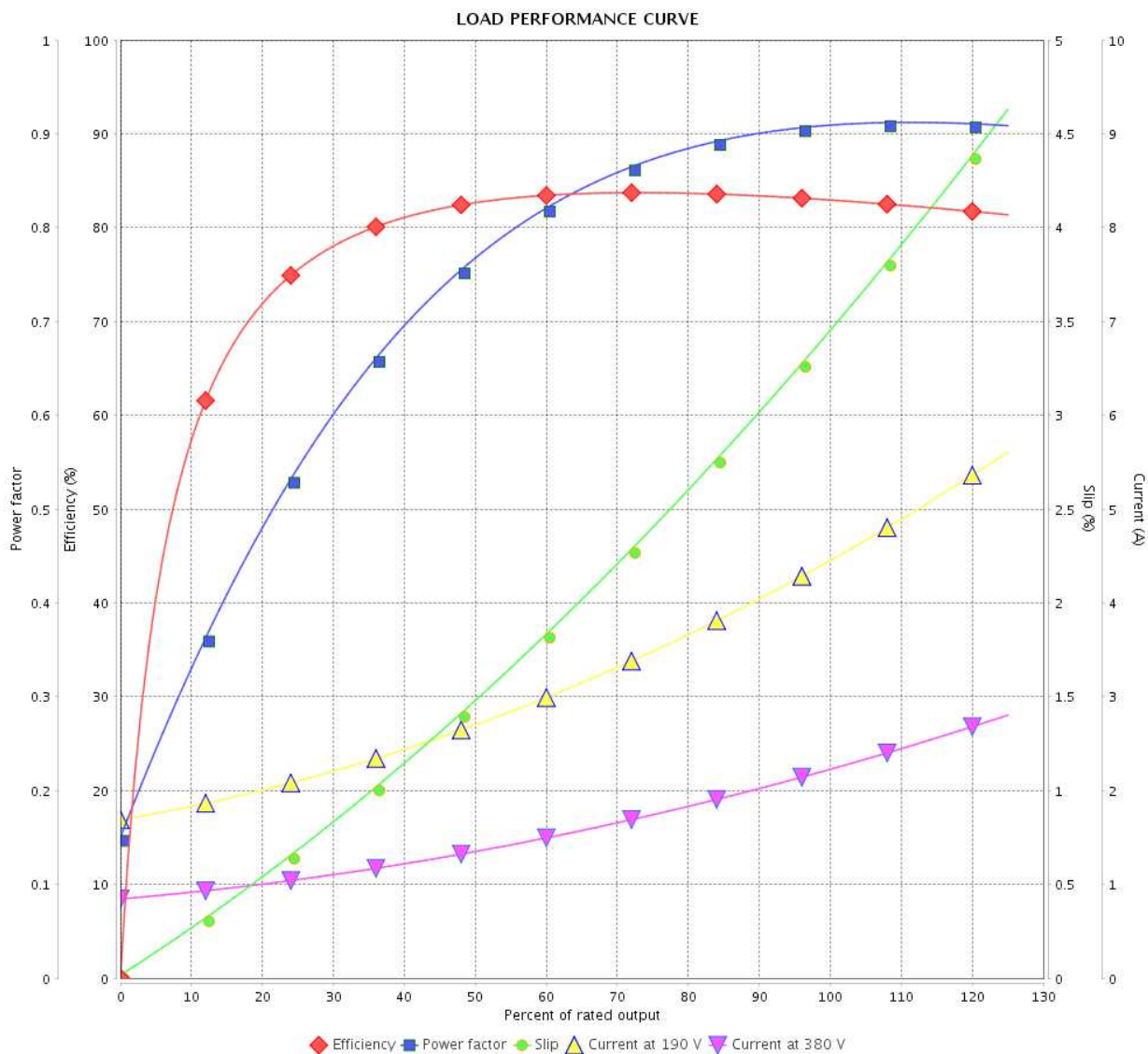
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Three-Phase

Product code : 13722358



Performance : 190/380 V 50 Hz 2P

Rated current : 4.44/2.22 A
 LRC : 7.2
 Rated torque : 0.376 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 280 %
 Rated speed : 2895 rpm

Moment of inertia (J) : 0.0043 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 4Revision		
Checked by				
Date	17/05/2022			

LOAD PERFORMANCE CURVE

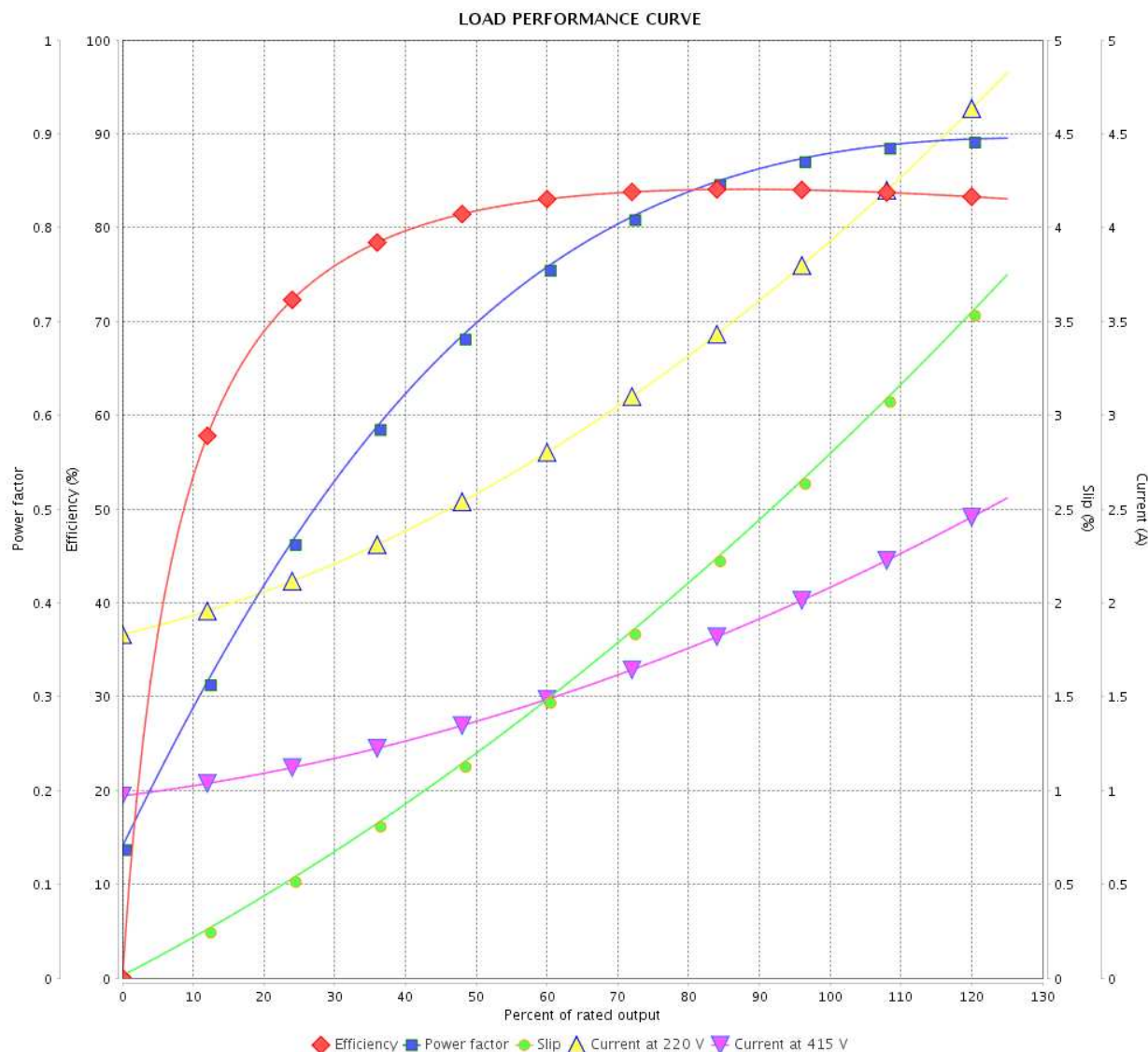
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Three-Phase

Product code : 13722358

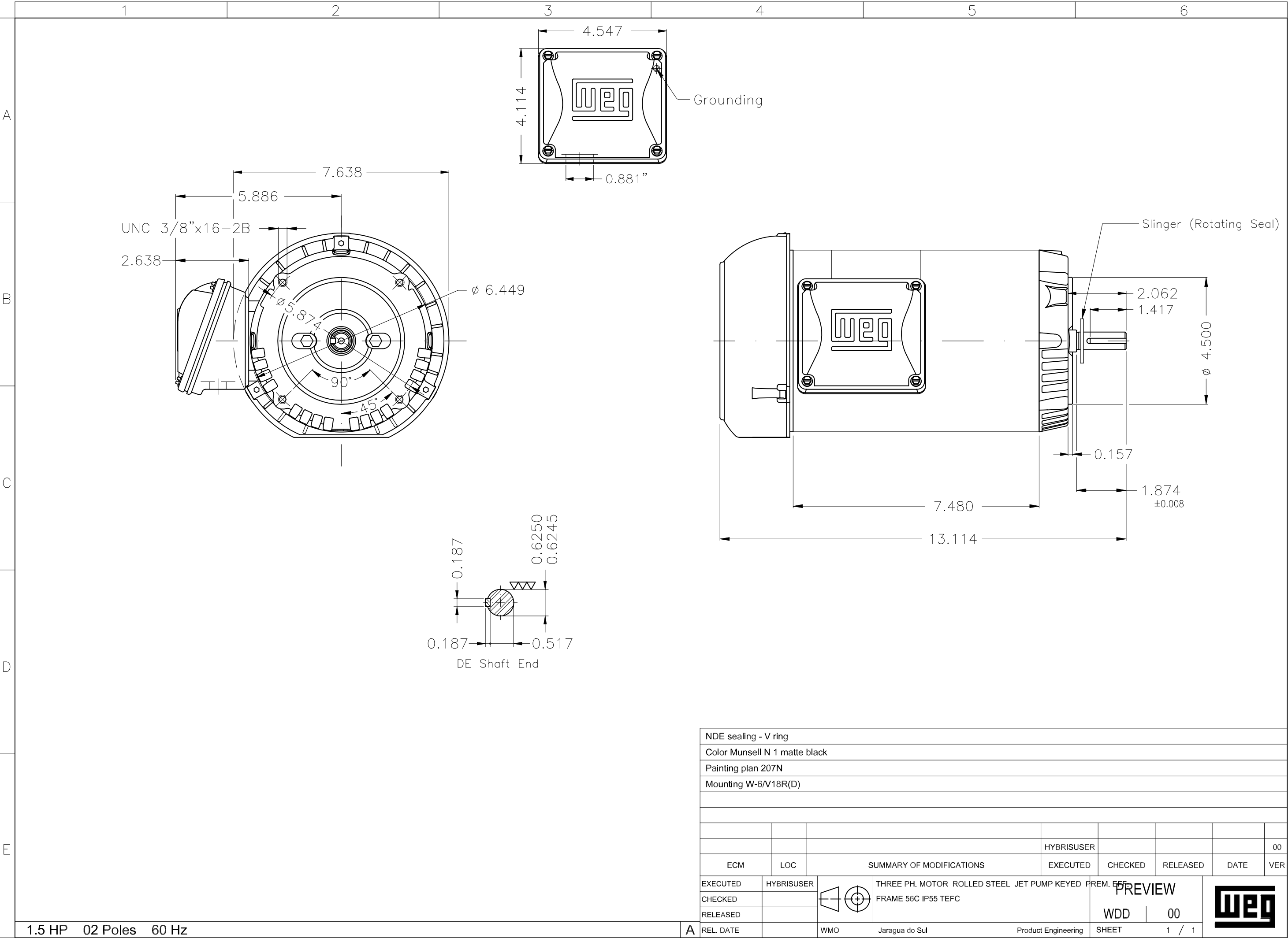


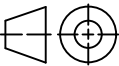
Performance : 220/415 V 50 Hz 2P

Rated current : 3.90/2.07 A
 LRC : 8.5
 Rated torque : 0.373 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 330 %
 Rated speed : 2915 rpm

Moment of inertia (J) : 0.0043 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 4 / 4	Revision
Checked by					
Date	17/05/2022				



NDE sealing - V ring									
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 KEYED			PREVIEW			
CHECKED			FRAME 56C IP55 TEFC						
RELEASED									
REL. DATE			WMO Jaragua do Sul Product Engineering			SHEET 1 / 1			