

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	82.6	81.7	
	75%	82.5	83.8	84.0	
	100%	84.0	82.9	83.9	
Power Factor	25%				
	50%	0.71	0.77	0.70	
	75%	0.82	0.87	0.82	
	100%	0.88	0.91	0.88	
Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads			
Sealing	: V'Ring V'Ring	Max. traction	: 32 kgf		
Lubrication interval	: - -	Max. compression	: 47 kgf		
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
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Checked by				Page	Revision
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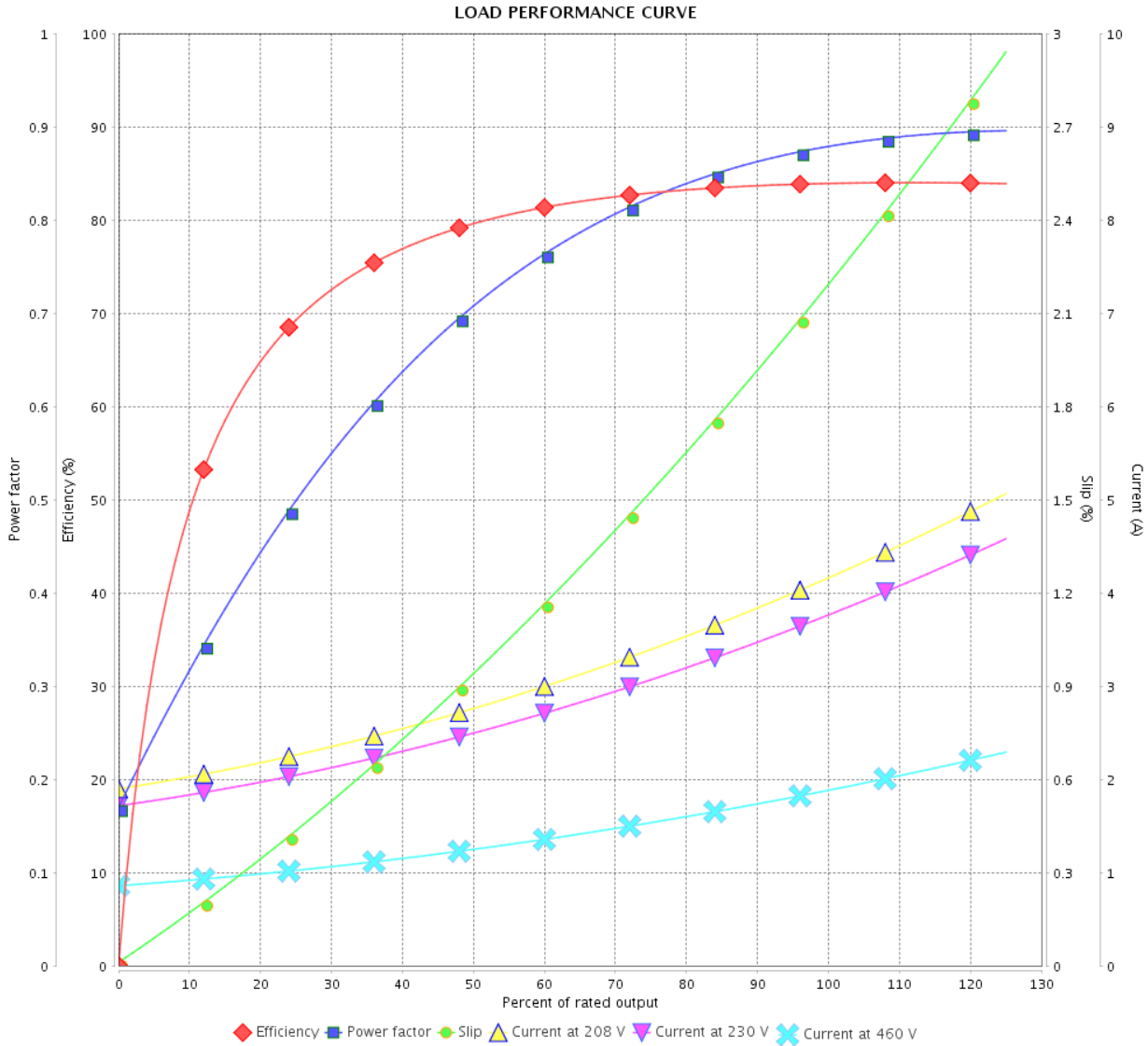
LOAD PERFORMANCE CURVE

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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

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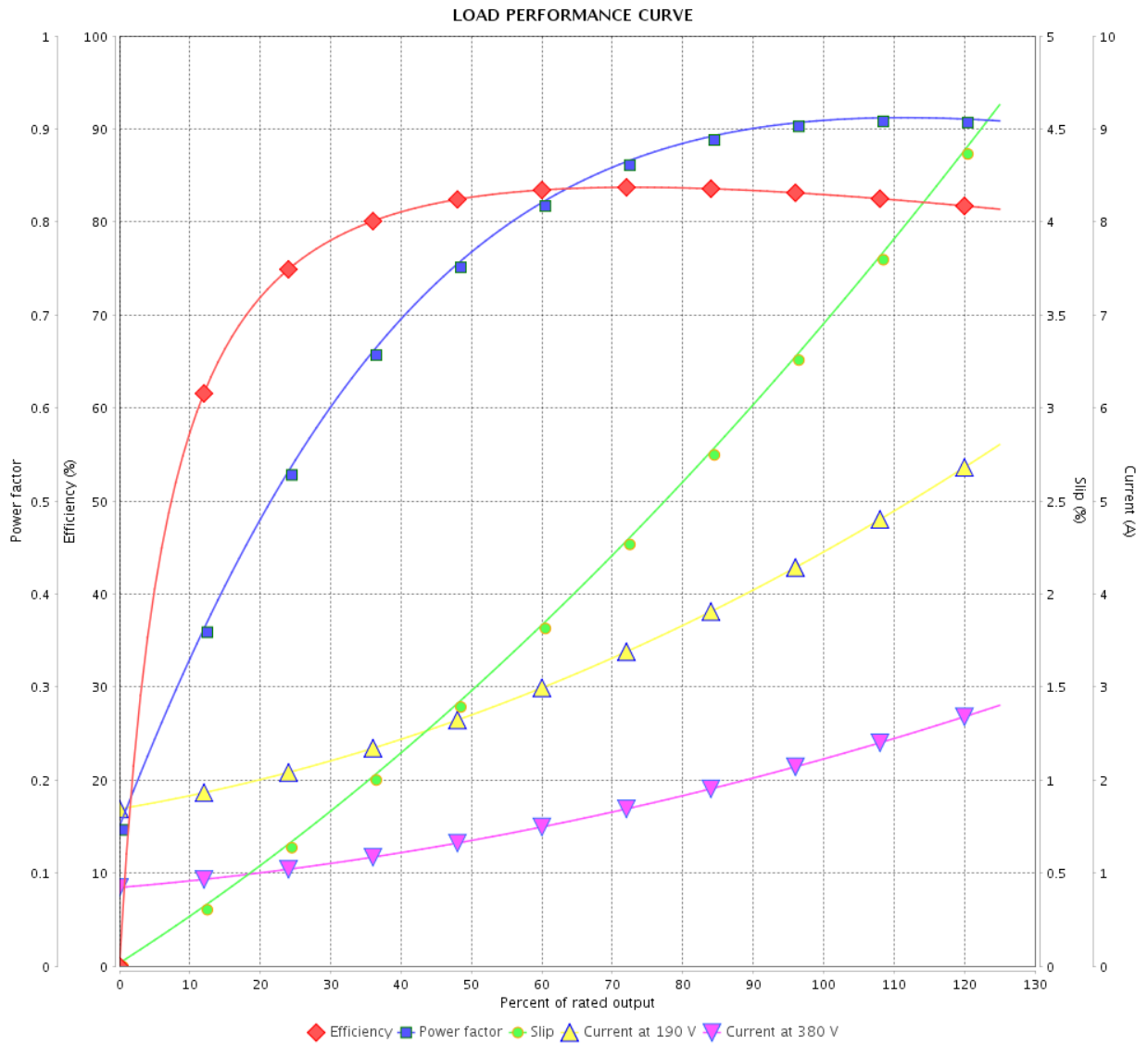
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Three Phase Induction Motor - Squirrel Cage



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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

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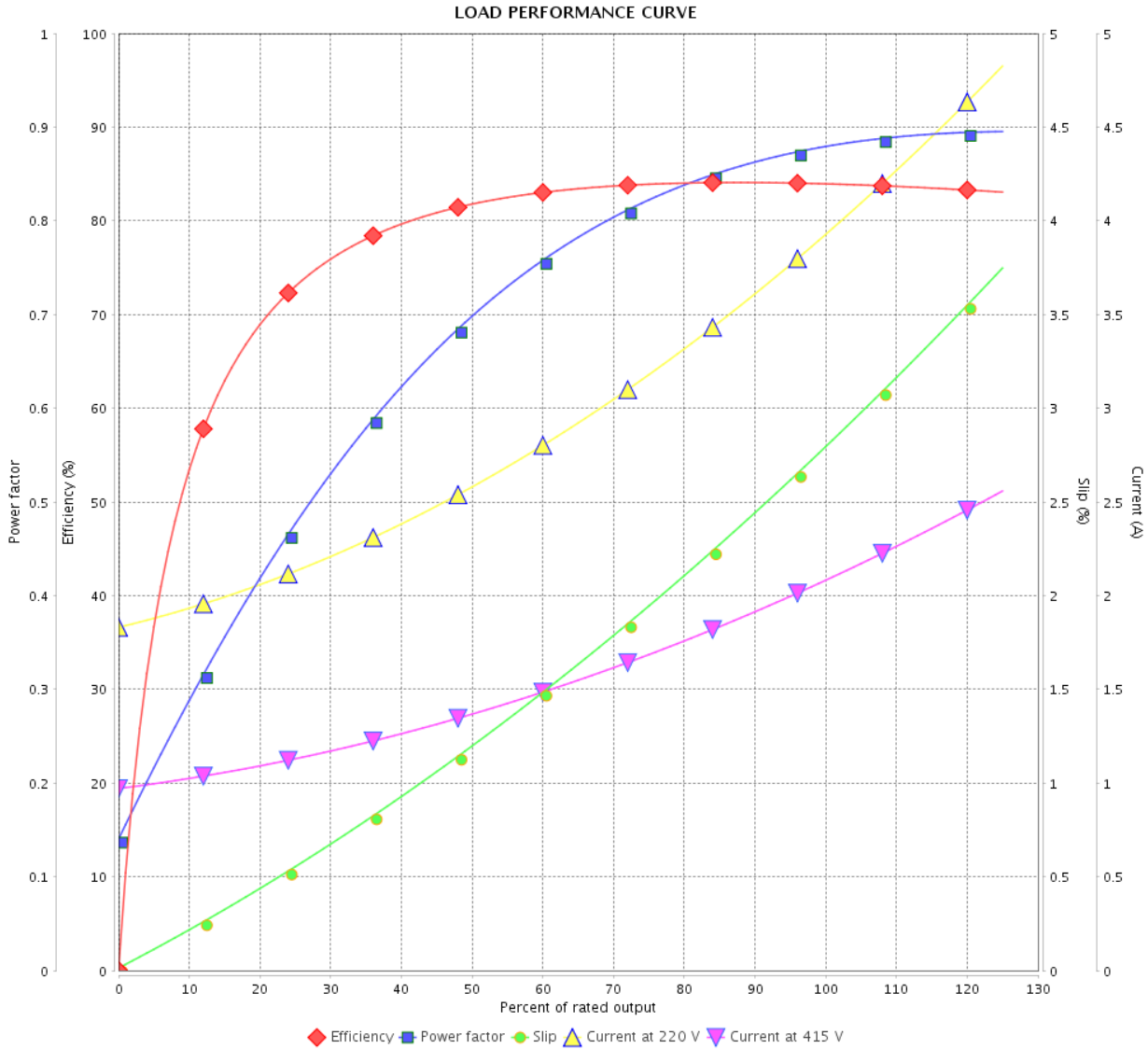
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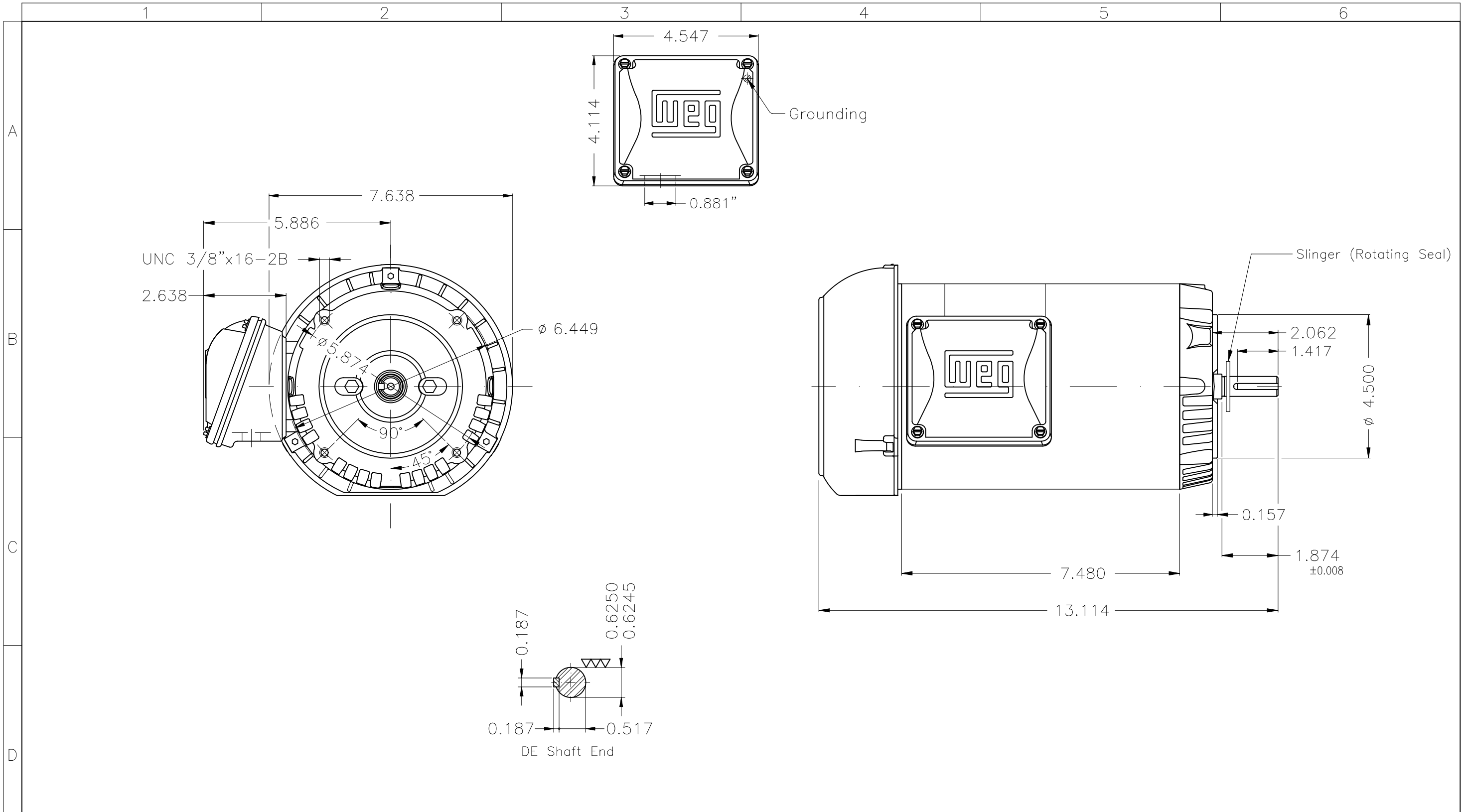


Performance : 220/415 V 50 Hz 2P

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
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NDE sealing - V ring										
Color Munsell N 1 matte black										
Painting plan 207N										
Mounting W-6/V18R(D)										
					HYBRISUSER					
ECM		LOC		SUMMARY OF MODIFICATIONS			EXECUTED		CHECKED	RELEASED
EXECUTED		HYBRISUSER		THREE PH. MOTOR ROLLED STEEL JET PUMP KEYED PREM. EFF.			EXECUTED		CHECKED	RELEASED
CHECKED				FRAME 56C IP55 TEFC			EXECUTED		CHECKED	RELEASED
RELEASED							EXECUTED		CHECKED	RELEASED
REL. DATE		WMO		Jaragua do Sul			Product Engineering		SHEET	1 / 1

1.5 HP 02 Poles 60 Hz

A

PREVIEW
WDD 00

