

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13125974	
Frame	: 143/5JM	Cooling method	: IC411 - TEFC	
Insulation class	: F	Mounting	: F-1	
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 20.5 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0055 kgm ²	
Design	: B			
Output [HP]	2	2	2	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	5.44/2.72	6.50/3.25	5.89/3.12	
L. R. Amperes [A]	44.6/22.3	39.0/19.5	39.4/20.9	
LRC [A]	8.2x(Code K)	6.0x(Code H)	6.7x(Code J)	
No load current [A]	2.80/1.40	2.75/1.37	2.87/1.52	
Rated speed [RPM]	1745	1415	1425	
Slip [%]	3.06	5.67	5.00	
Rated torque [kgfm]	0.832	1.03	1.02	
Locked rotor torque [%]	270	210	240	
Breakdown torque [%]	300	240	270	
Service factor		1.00	1.00	
Temperature rise	80 K	105 K	105 K	
Locked rotor time	27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%	86.0	86.0	
	50%	85.5	85.4	
	75%	87.5	84.9	
	100%	86.5	83.6	
Power Factor	25%	0.35	0.38	
	50%	0.60	0.64	
	75%	0.73	0.76	
	100%	0.80	0.83	
Bearing type	: <u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6203 ZZ	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 68 kgf	
		Max. compression	: 88 kgf	
Lubrication interval	: -			
Lubricant amount	: -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 6.02A SF 1.00 SFA 6.02A				
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	

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Three Phase Induction Motor - Squirrel Cage

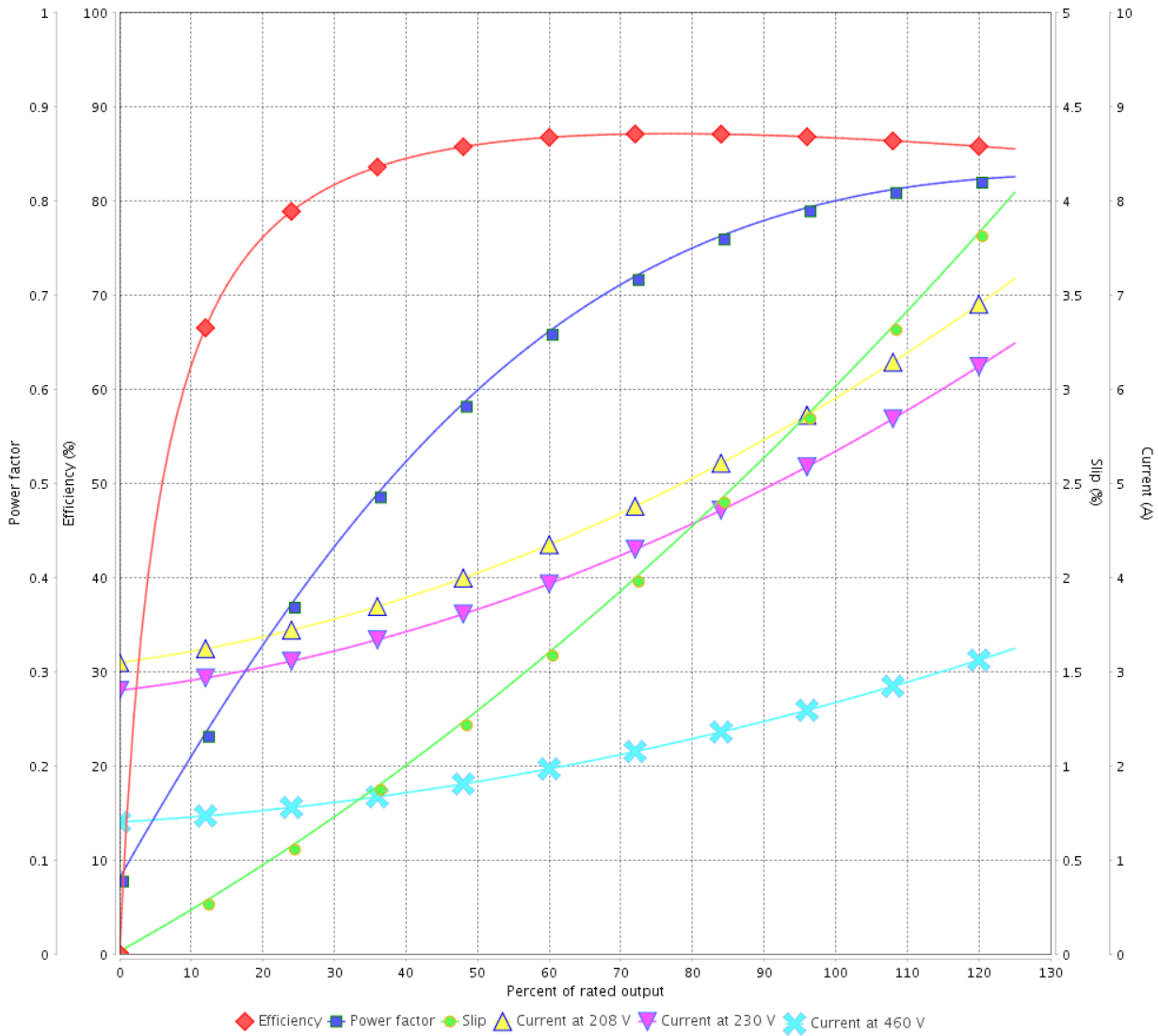


Customer :

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Efficiency Three-Phase

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Performance : 230/460 V 60 Hz 4P

Rated current : 5.44/2.72 A
 LRC : 8.2
 Rated torque : 0.832 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0055 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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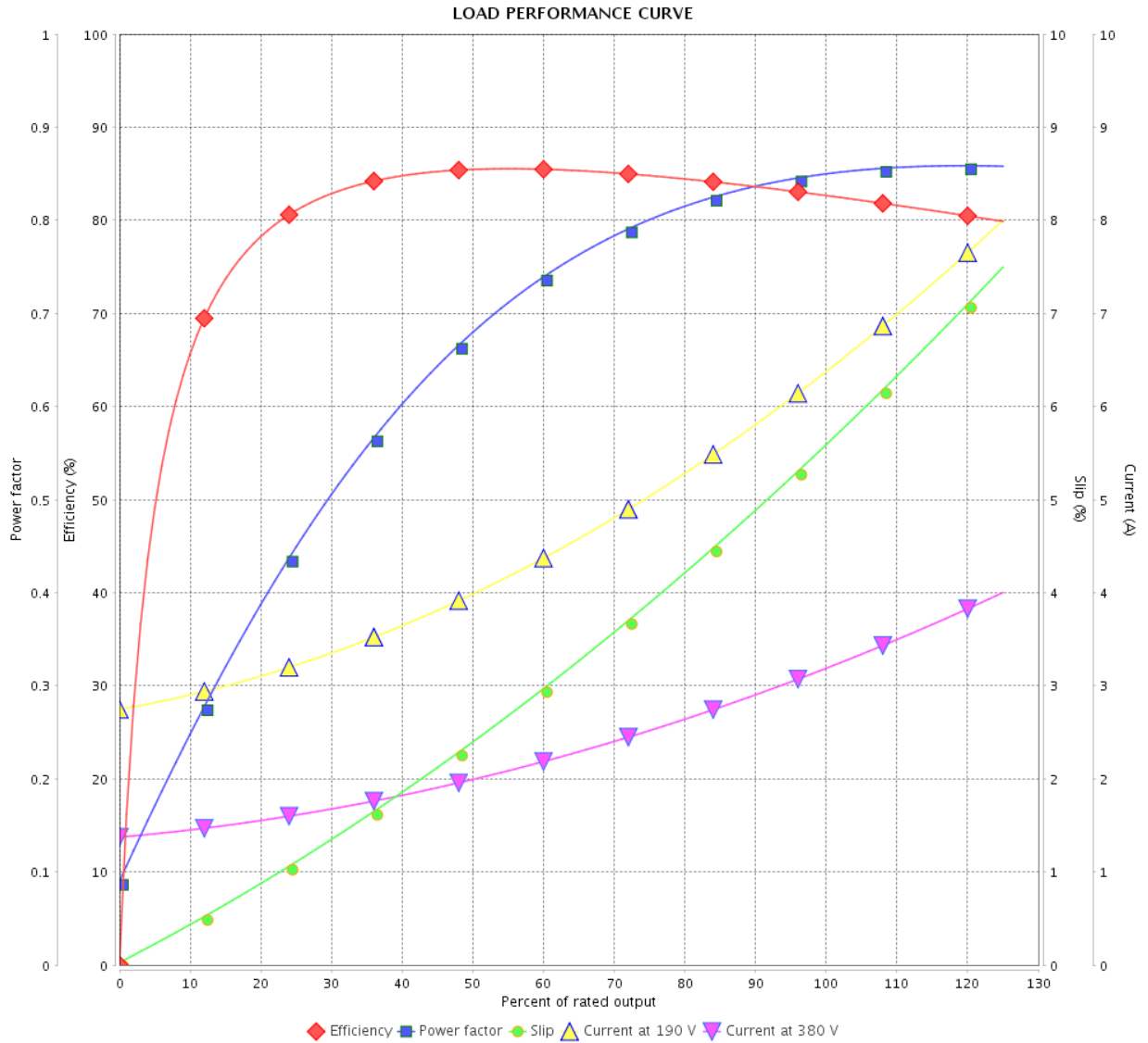
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Customer :

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Performance : 190/380 V 50 Hz 4P

Rated current : 6.50/3.25 A
LRC : 6.0
Rated torque : 1.03 kgfm
Locked rotor torque : 210 %
Breakdown torque : 240 %
Rated speed : 1415 rpm

Moment of inertia (J) : 0.0055 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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Performed by			Page	Revision
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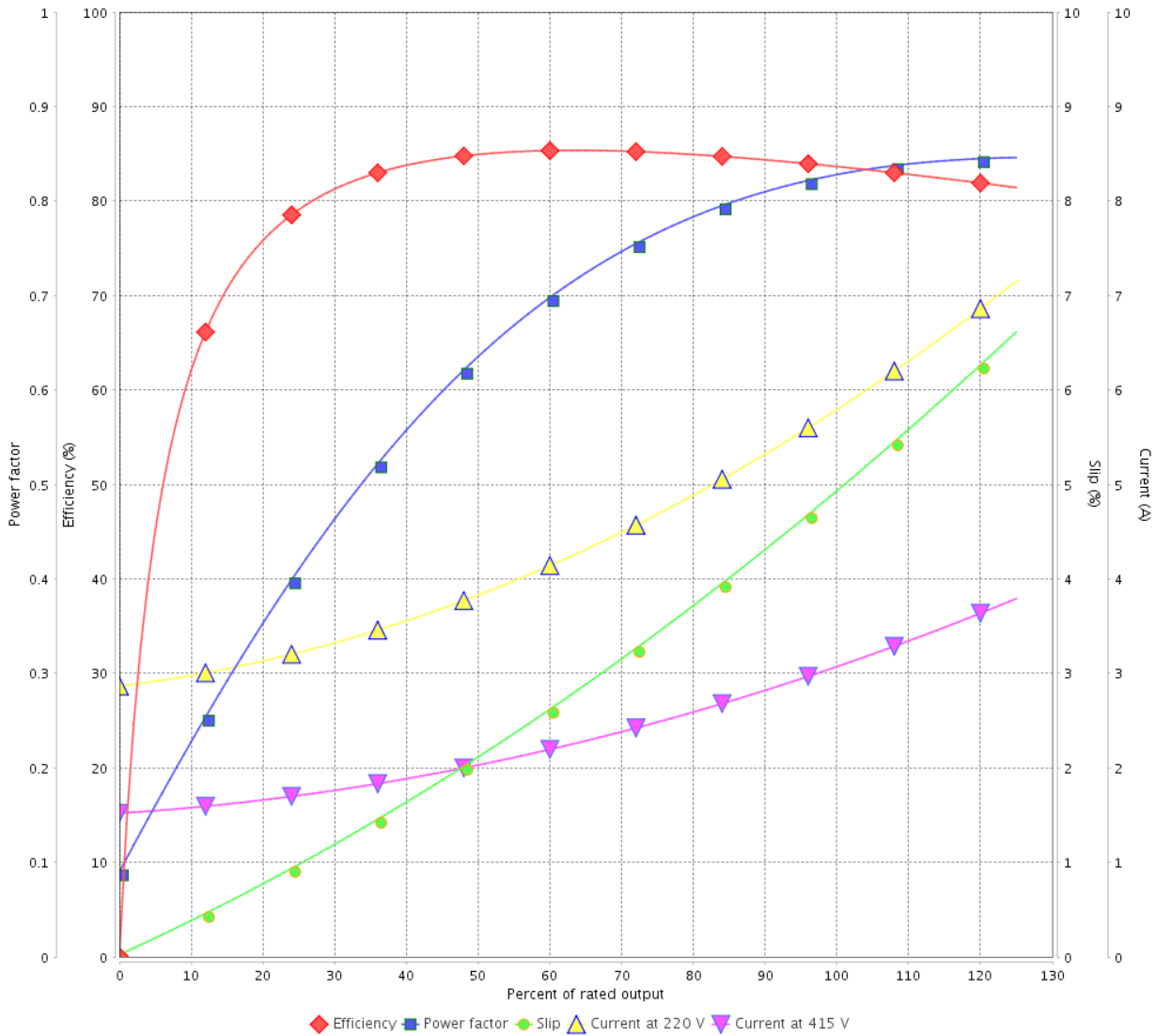


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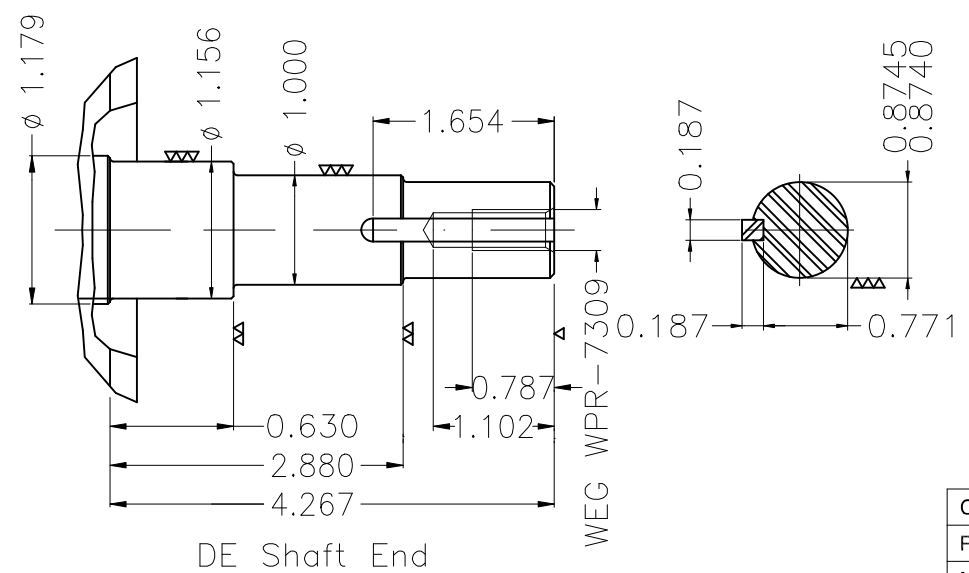
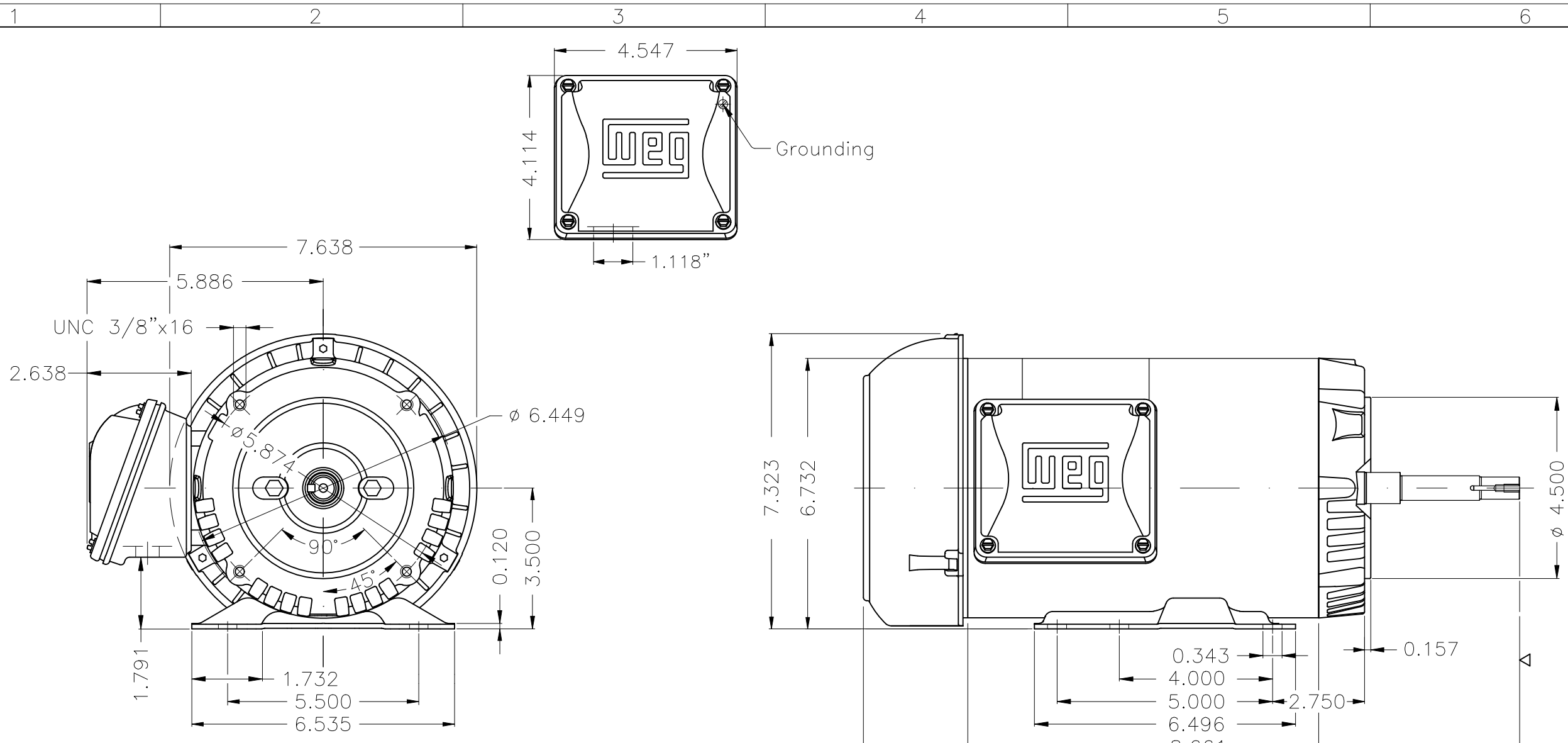


Performance : 220/415 V 50 Hz 4P

Rated current : 5.89/3.12 A
LRC : 6.7
Rated torque : 1.02 kgfm
Locked rotor torque : 240 %
Breakdown torque : 270 %
Rated speed : 1425 rpm

Moment of inertia (J) : 0.0055 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by			4 / 4	
Date	16/05/2022			



EUNC 3/8"-16 WEG WPR-7309

Color Munsell N 1 matte black						
Painting plan 207N						
Mounting B34D						
				HYBRISUSER		00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL JM NEMA PREM. EFF.				
CHECKED		FRAME 143/5JM IP55 TEFC				
RELEASED						
REL. DATE		WMO	Jaragua do Sul	Product Engineering		

PREVIEW

WDD 00



2 HP 04 Poles 60 Hz