

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13180570
Frame	: 213/5JM	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 ³	: 64.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0451 kgm ²
Design	: B		
Output [HP]	10	7.5	7.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	24.4/12.2	22.4/11.2	20.8/11.0
L. R. Amperes [A]	171/85.4	170/85.1	172/91.3
LRC [A]	7.0x(Code H)	7.6x(Code J)	8.3x(Code K)
No load current [A]	11.1/5.54	10.9/5.46	11.3/5.97
Rated speed [RPM]	1760	1465	1470
Slip [%]	2.22	2.33	2.00
Rated torque [kgfm]	4.12	3.72	3.70
Locked rotor torque [%]	250	250	290
Breakdown torque [%]	300	320	360
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	60.0 dB(A)	57.0 dB(A)	57.0 dB(A)
Efficiency (%)	25%	90.2	89.3
	50%	91.0	89.4
	75%	91.0	90.5
	100%	91.7	90.3
Power Factor	25%	0.41	0.34
	50%	0.67	0.59
	75%	0.78	0.73
	100%	0.84	0.80
Bearing type	: <u>Drive end</u> 6209 ZZ <u>Non drive end</u> 6206 ZZ	Foundation loads	
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 214 kgf
		Max. compression	: 278 kgf
Lubrication interval	: -		
Lubricant amount	: -		
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 27.0A SF 1.00 SFA 27.0A			
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.	
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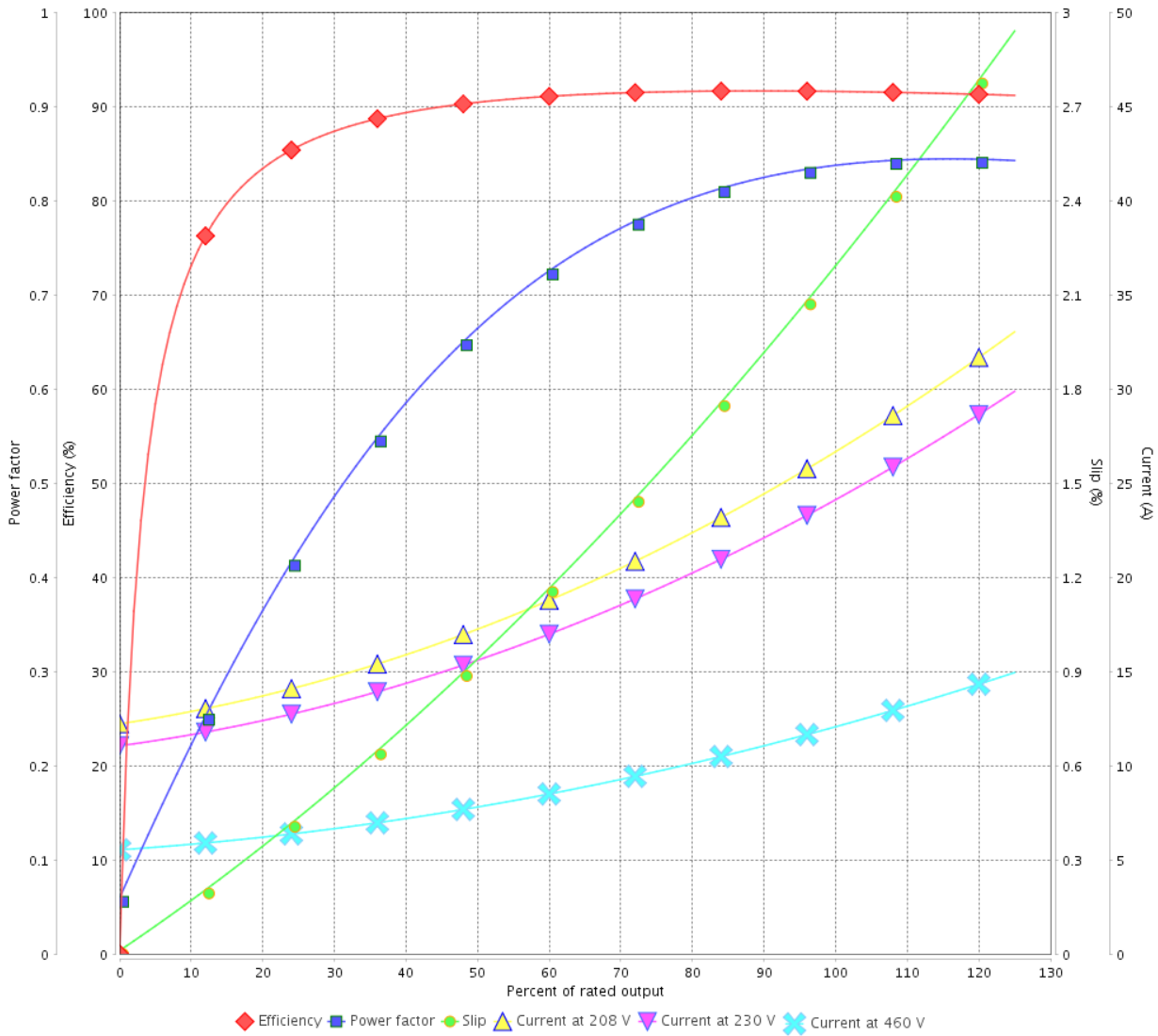


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Performance : 230/460 V 60 Hz 4P

Rated current : 24.4/12.2 A
LRC : 7.0
Rated torque : 4.12 kgfm
Locked rotor torque : 250 %
Breakdown torque : 300 %
Rated speed : 1760 rpm

Moment of inertia (J) : 0.0451 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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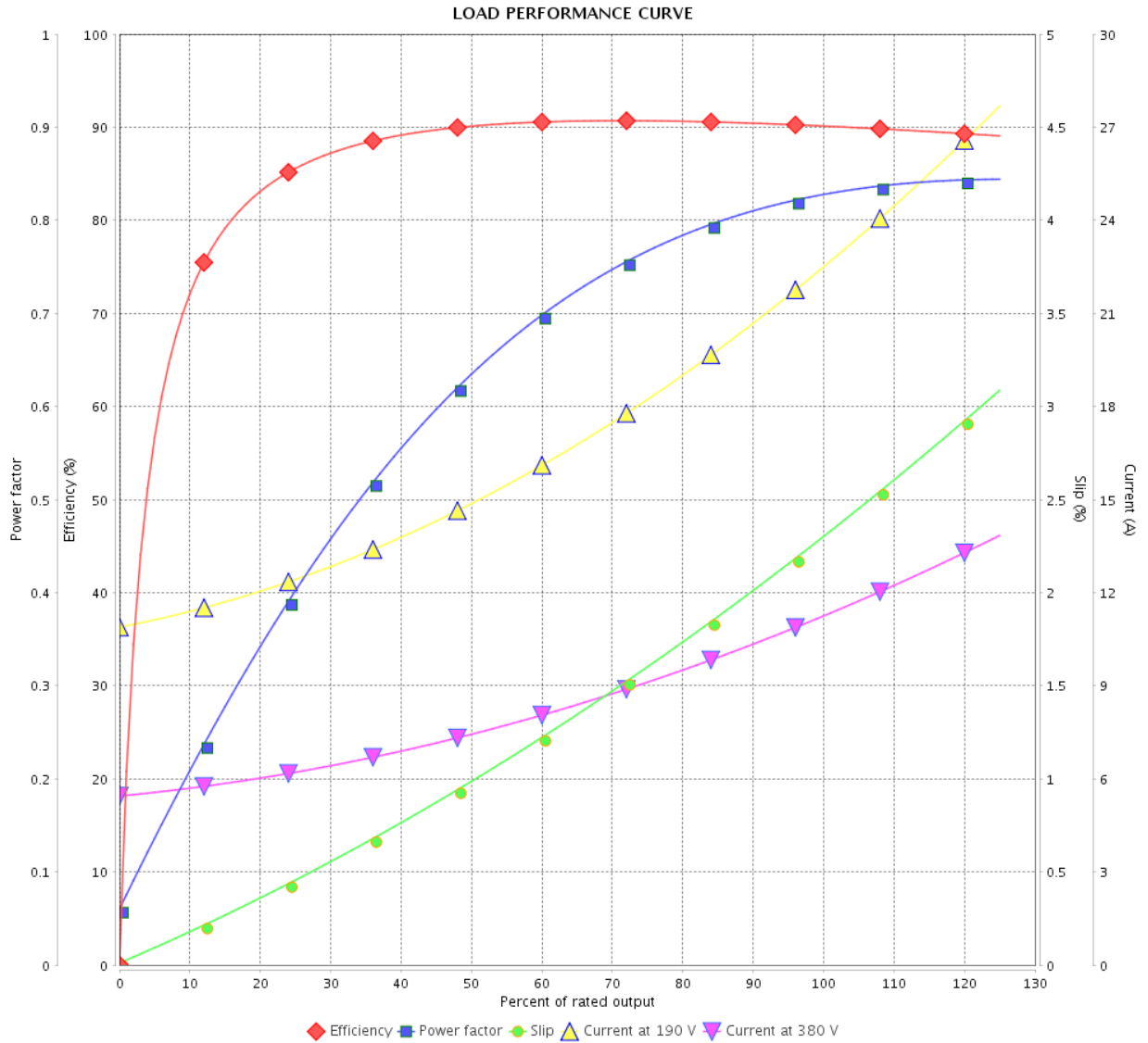
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Performance : 190/380 V 50 Hz 4P

Rated current : 22.4/11.2 A
 LRC : 7.6
 Rated torque : 3.72 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 320 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.0451 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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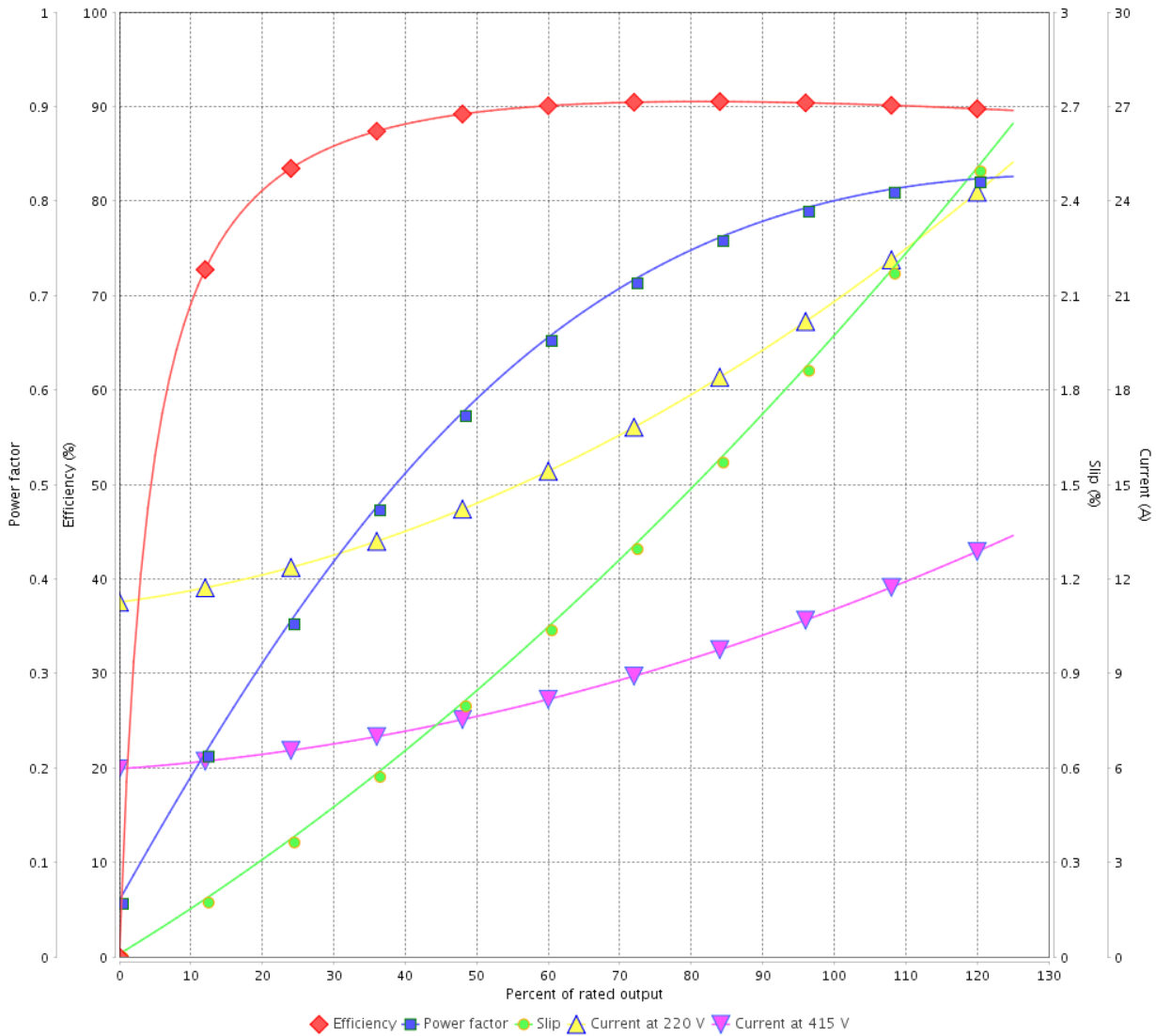


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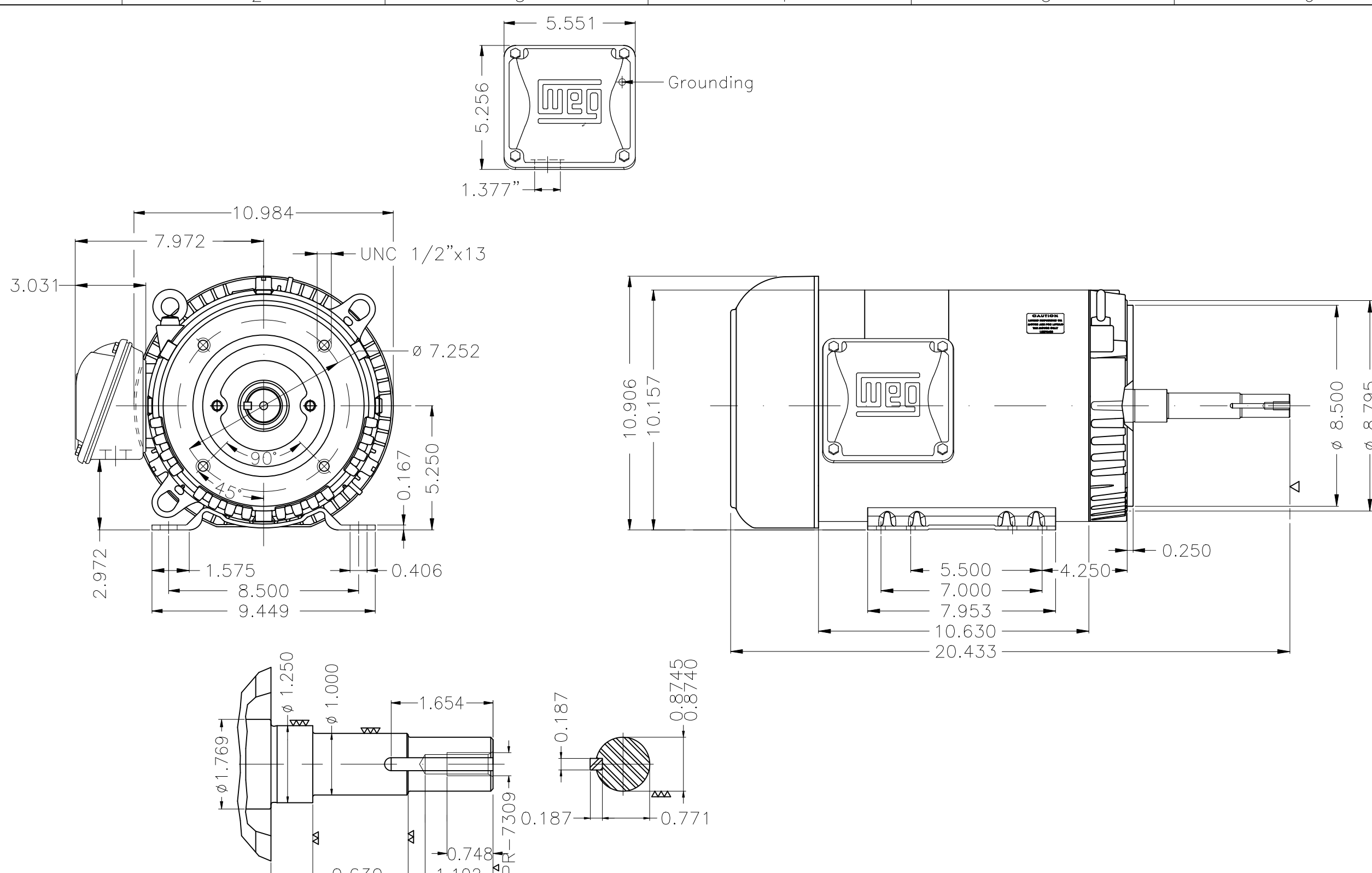


Performance : 220/415 V 50 Hz 4P

Rated current : 20.8/11.0 A
LRC : 8.3
Rated torque : 3.70 kgfm
Locked rotor torque : 290 %
Breakdown torque : 360 %
Rated speed : 1470 rpm

Moment of inertia (J) : 0.0451 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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EUNC 3/8"-16 WEG WPR-7309

DE Shaft End

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.	PREVIEW		
CHECKED		FRAME 213/5JM IP55 TEFC			
RELEASED					
REL. DATE		WMO Jaragua do Sul	Product Engineering	WDD	00
			SHEET	1 / 1	

10 HP 04 Poles 60 Hz