

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 12676963

Frame	: 143/5JM	Cooling method	: IC01 - ODP
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	: 18.8 kg
Design	: B	Moment of inertia (J)	: 0.0049 kgm ²

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]	5.38/2.69	6.52/3.26	5.90/3.13
L. R. Amperes [A]	41.4/20.7	36.5/18.3	36.6/19.4
LRC [A]	7.7x(Code K)	5.6x(Code G)	6.2x(Code H)
No load current [A]	2.75/1.38	2.70/1.35	2.82/1.49
Rated speed [RPM]	1740	1410	1420
Slip [%]	3.33	6.00	5.33
Rated torque [kgfm]	0.834	1.03	1.02
Locked rotor torque [%]	260	200	220
Breakdown torque [%]	320	229	260
Service factor		1.00	1.00
Temperature rise	80 K	105 K	80 K
Locked rotor time	30s (cold) 17s (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%	85.2	88.2
	50%	85.5	85.9
	75%	86.5	85.0
	100%	86.5	82.2
Power Factor	25%	0.36	0.42
	50%	0.61	0.69
	75%	0.74	0.80
	100%	0.81	0.85

	<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	: 6206 ZZ	6203 ZZ	Foundation loads
Sealing	: Without	Without	Max. traction : 66 kgf
	Bearing Seal	Bearing Seal	Max. compression : 85 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 5.95A SF 1.00 SFA 5.95A

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	16/05/2022			

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Revision

LOAD PERFORMANCE CURVE

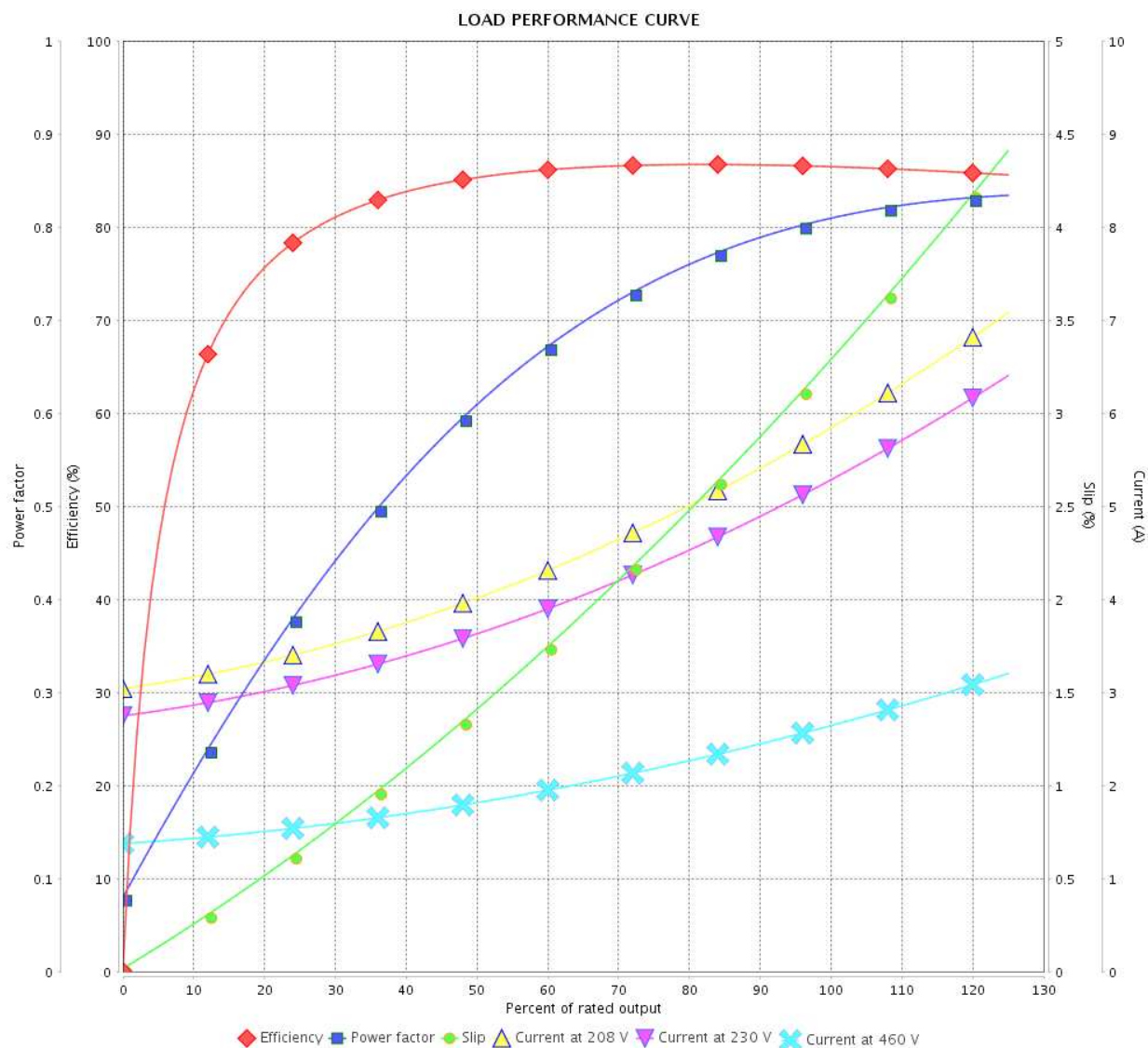
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 12676963



Performance : 230/460 V 60 Hz 4P

Rated current : 5.38/2.69 A
 LRC : 7.7
 Rated torque : 0.834 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 320 %
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0049 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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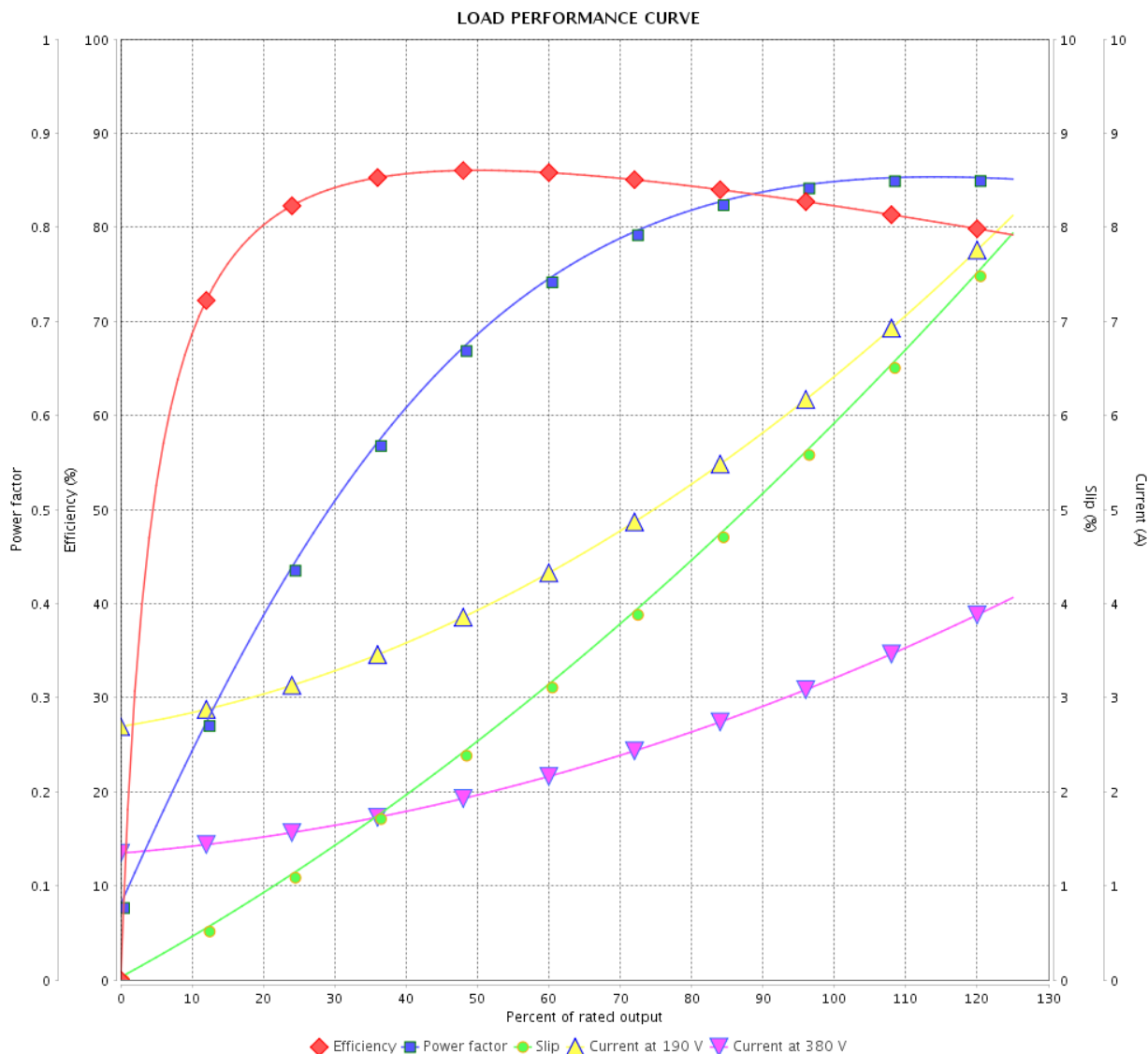
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 12676963



Performance : 190/380 V 50 Hz 4P

Rated current : 6.52/3.26 A
LRC : 5.6
Rated torque : 1.03 kgfm
Locked rotor torque : 200 %
Breakdown torque : 229 %
Rated speed : 1410 rpm

Moment of inertia (J) : 0.0049 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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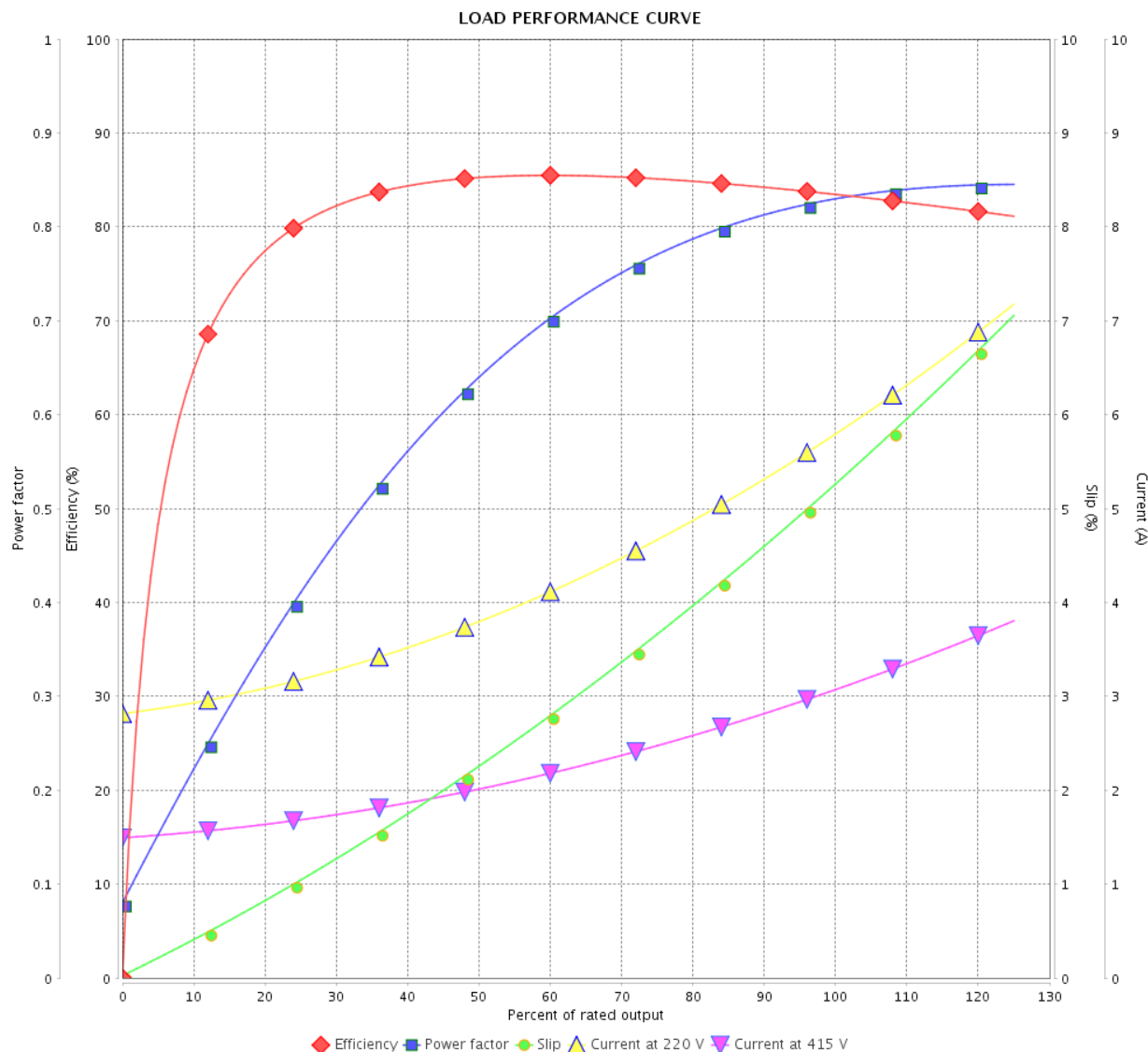
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 12676963

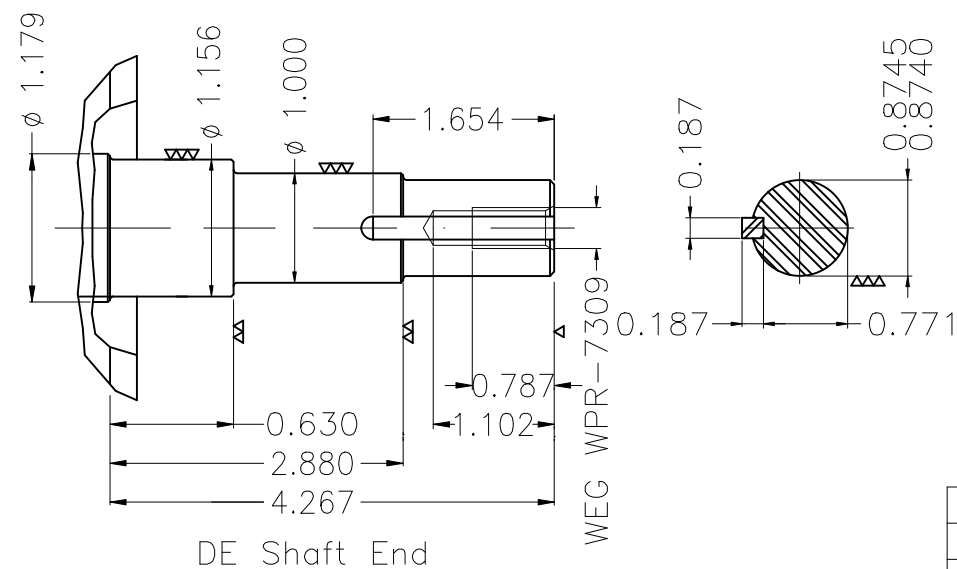
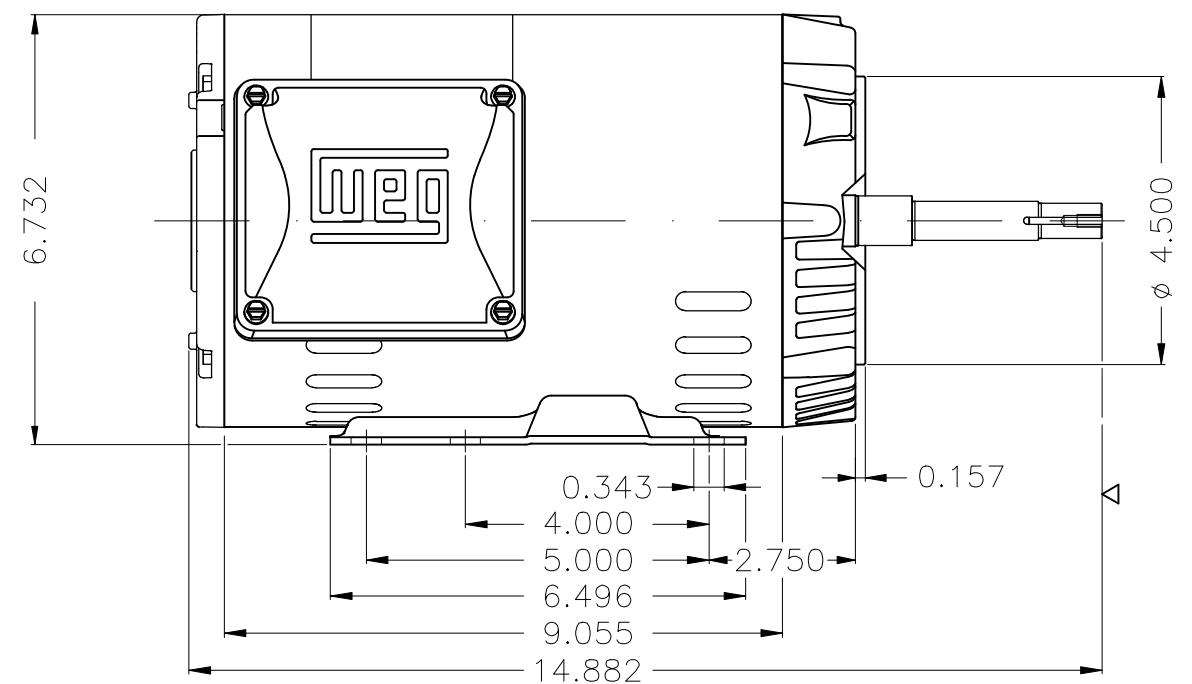
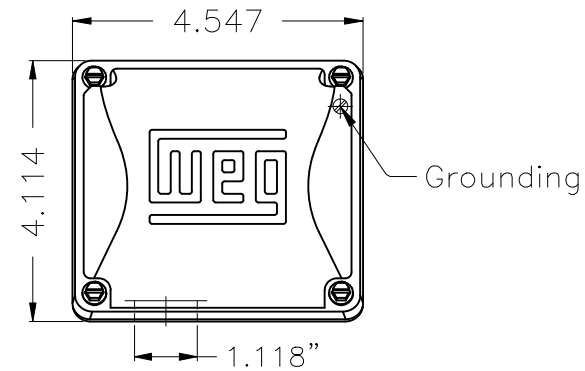
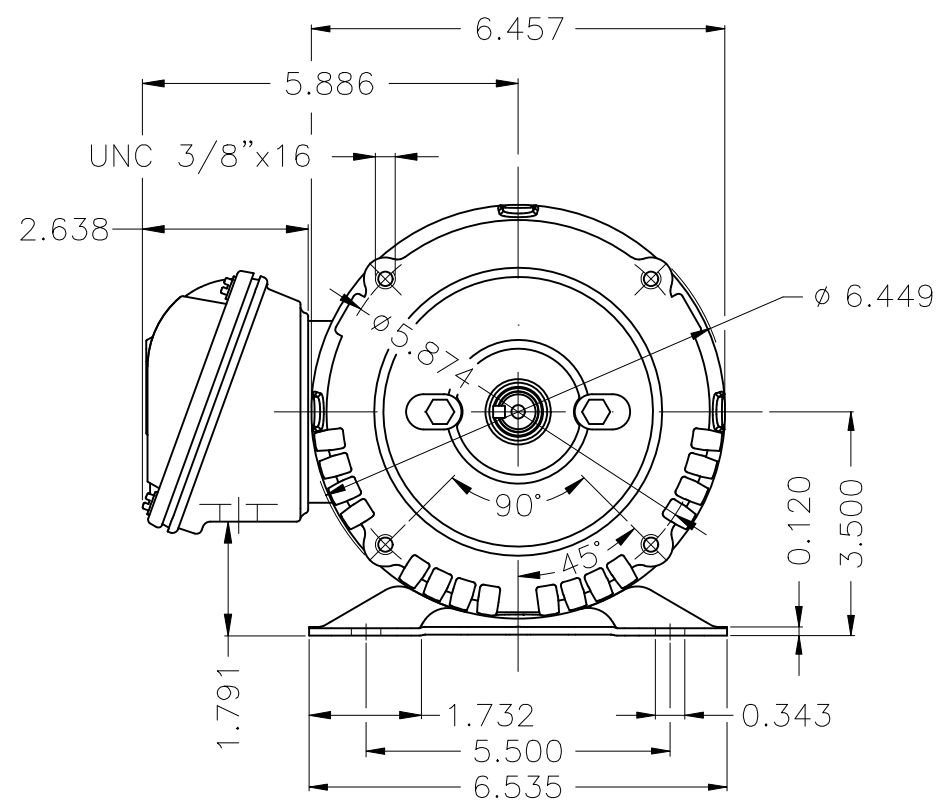


Performance : 220/415 V 50 Hz 4P

Rated current : 5.90/3.13 A
LRC : 6.2
Rated torque : 1.02 kgfm
Locked rotor torque : 220 %
Breakdown torque : 260 %
Rated speed : 1420 rpm

Moment of inertia (J) : 0.0049 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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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	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR ROLLED STEEL JM NEMA PREM.EFF.				PREVIEW			
CHECKED			FRAME 143/5JM IP21 ODP							
RELEASED										
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1				

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Dimensions in inches

XME	A3
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