

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Standard Efficiency Three-Phase	Product code :	12894799	
Frame	: 56C	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	: 12.7 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0036 kgm ²	
Design	: A			
Output [HP]	1	1	1	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	3.32/1.66	3.68/1.84	3.49/1.85	
L. R. Amperes [A]	25.6/12.8	23.2/11.6	23.0/12.2	
LRC [A]	7.7x(Code M)	6.3x(Code J)	6.6x(Code K)	
No load current [A]	2.40/1.20	2.35/1.18	2.57/1.36	
Rated speed [RPM]	1760	1445	1450	
Slip [%]	2.22	3.67	3.33	
Rated torque [kgfm]	0.412	0.502	0.501	
Locked rotor torque [%]	270	200	229	
Breakdown torque [%]	300	260	290	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	21s (cold) 12s (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%	72.4	74.3	70.9
	50%	74.0	74.9	72.3
	75%	78.5	78.1	77.0
	100%	80.0	78.3	78.1
Power Factor	25%	0.26	0.32	0.28
	50%	0.48	0.57	0.51
	75%	0.62	0.71	0.65
	100%	0.71	0.79	0.75
Bearing type	: Drive end : 6204 ZZ	Non drive end : 6202 ZZ	Foundation loads	
Sealing	: V'Ring	Without Bearing Seal	Max. traction : 40 kgf	
Lubrication interval	: -	-	Max. compression : 53 kgf	
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 3.67A SF 1.00 SFA 3.67A				
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	13/05/2022		1 / 4	

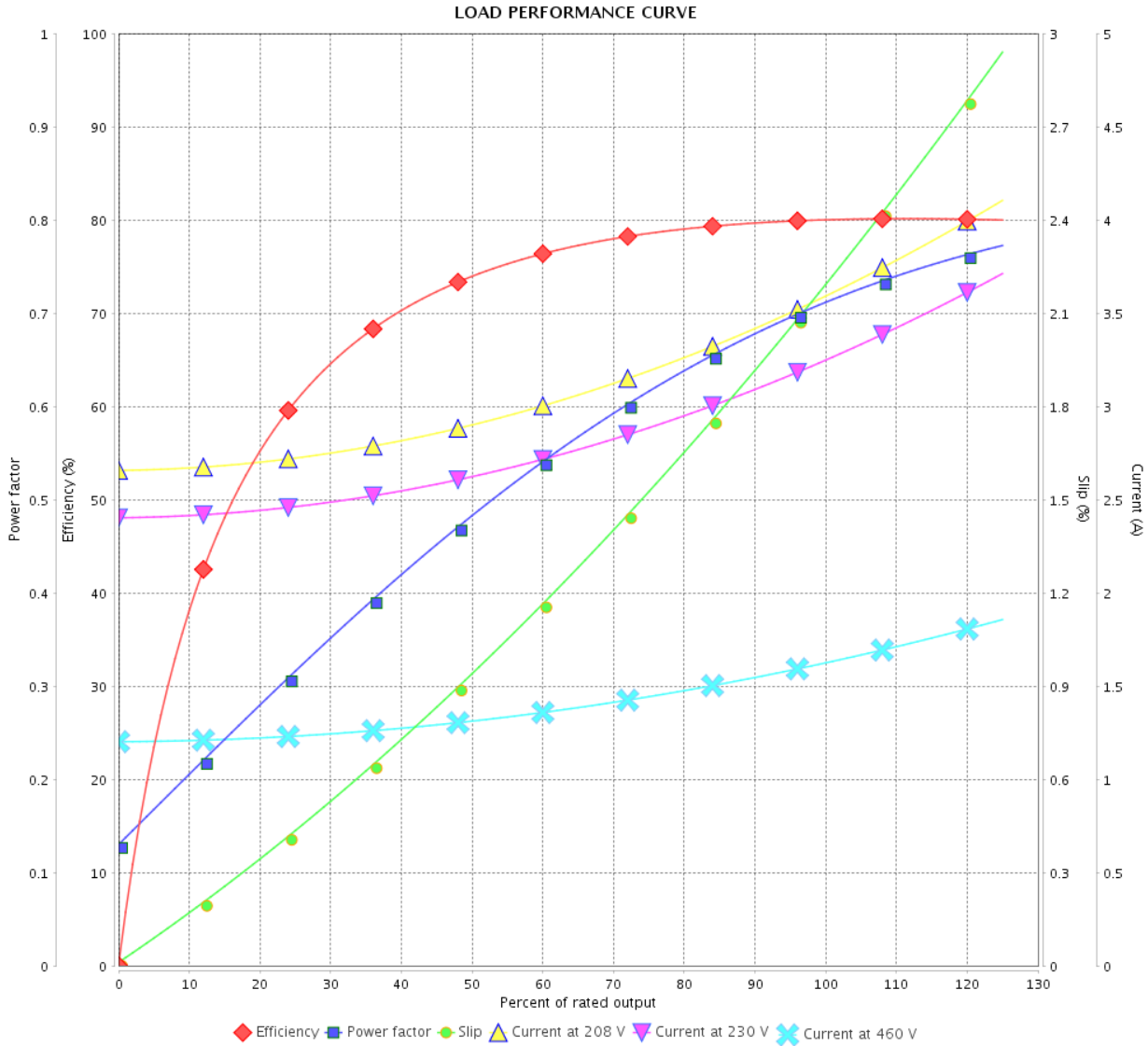
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894799



Performance : 230/460 V 60 Hz 4P

Rated current : 3.32/1.66 A
 LRC : 7.7
 Rated torque : 0.412 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0036 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

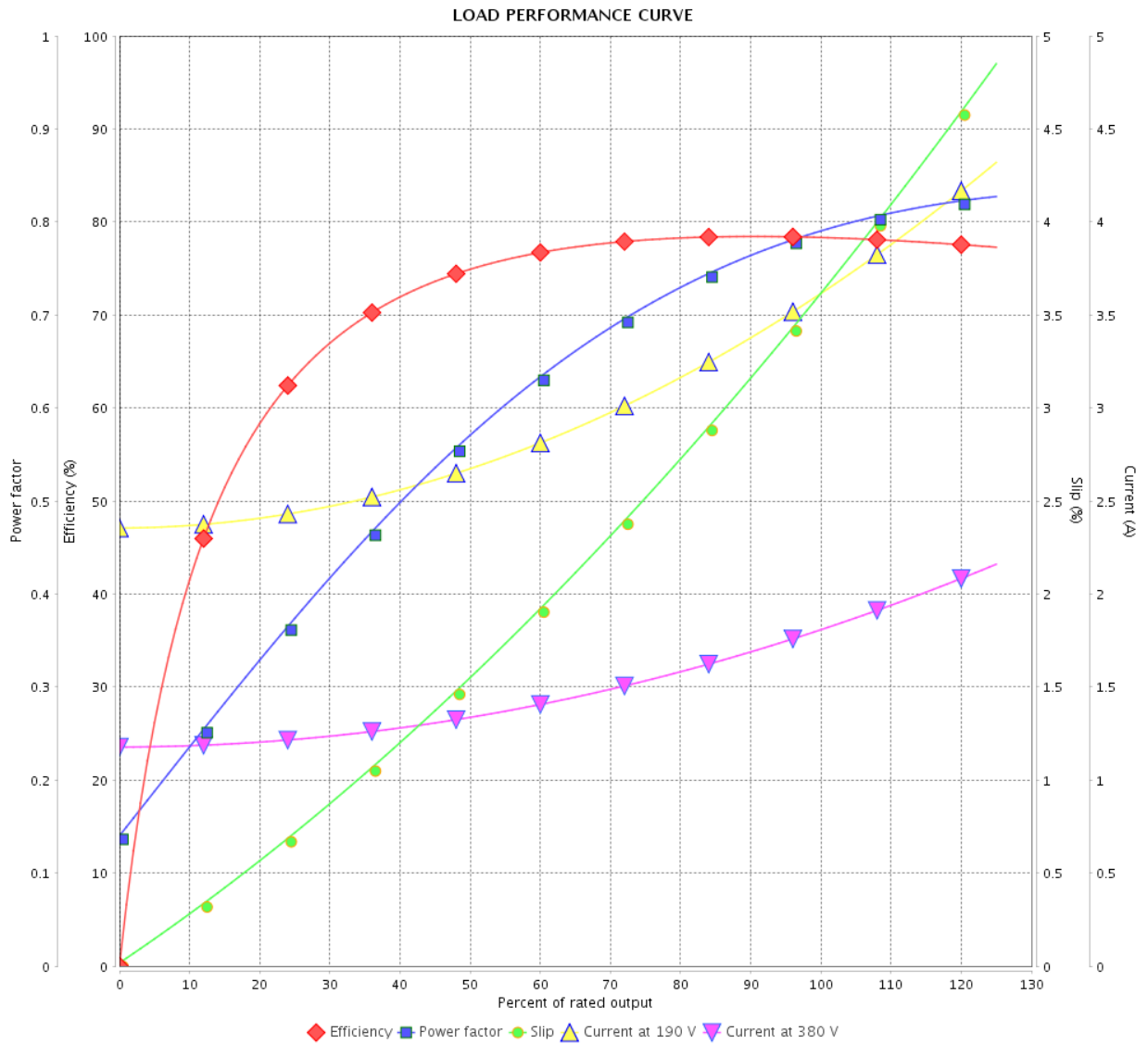
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 12894799



Performance : 190/380 V 50 Hz 4P

Rated current : 3.68/1.84 A
 LRC : 6.3
 Rated torque : 0.502 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 260 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0036 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

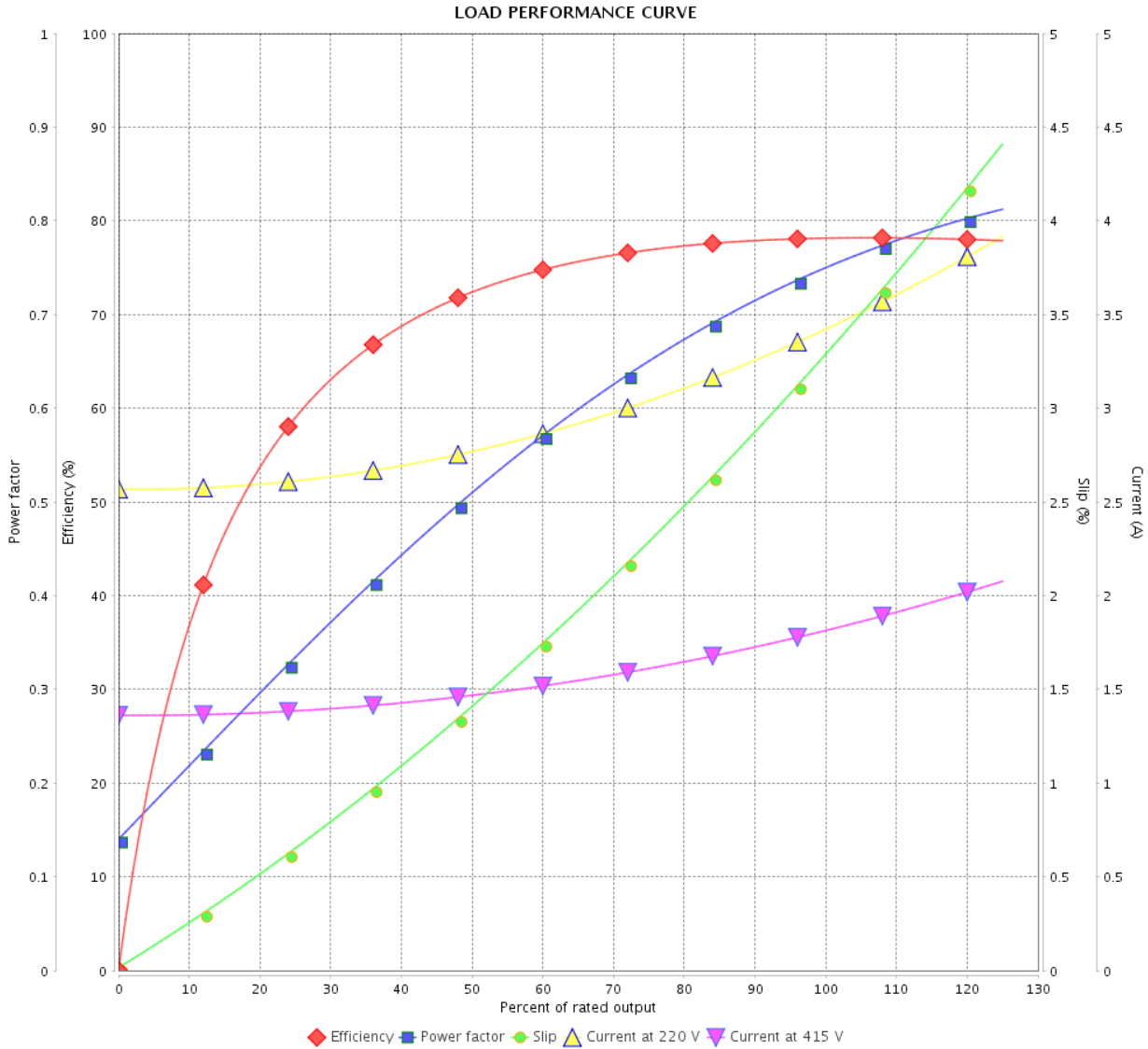
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894799

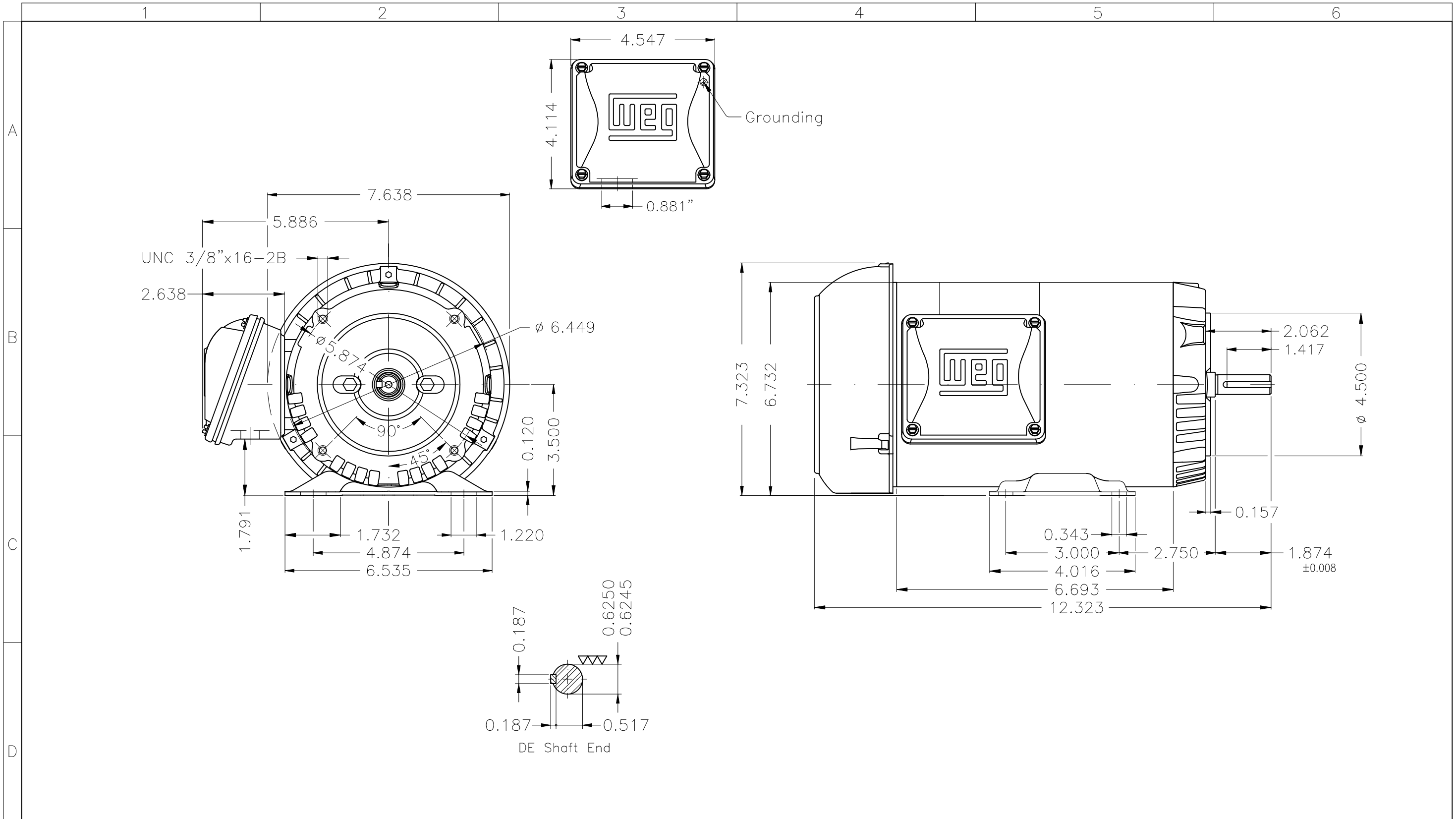


Performance : 220/415 V 50 Hz 4P

Rated current : 3.49/1.85 A
 LRC : 6.6
 Rated torque : 0.501 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 1450 rpm

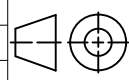

Moment of inertia (J) : 0.0036 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 4	Revision
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A
B
C
D
E

Dimensions in inches
XME A3

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				PREVIEW			
CHECKED		FRAME 56C IP55 TEFC				WDD	00		
RELEASED						SHEET	1 / 1		
REL. DATE		WMO	Jaragua do Sul	Product Engineering					

1 HP 04 Poles 60 Hz

A