

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Standard Efficiency Three-Phase	Product code :	12805246	
Frame	: 56HC	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	: 14.7 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0041 kgm ²		
Design	: A				
Output [HP]	2	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]	5.24/2.62	4.74/2.37	4.34/2.30		
L. R. Amperes [A]	40.3/20.2	39.3/19.7	39.0/20.7		
LRC [A]	7.7x(Code K)	8.3x(Code K)	9.0x(Code L)		
No load current [A]	2.07/1.04	2.04/1.02	2.19/1.16		
Rated speed [RPM]	3475	2890	2900		
Slip [%]	3.47	3.67	3.33		
Rated torque [kgfm]	0.418	0.377	0.375		
Locked rotor torque [%]	229	270	310		
Breakdown torque [%]	290	320	350		
Service factor		1.15	1.15		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	19s (cold) 11s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)		
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)		
Efficiency (%)	25%	73.9	75.7	74.0	
	50%	75.5	76.3	75.1	
	75%	78.5	79.2	78.7	
	100%	80.0	79.4	79.5	
Power Factor	25%	0.49	0.47	0.41	
	50%	0.76	0.74	0.68	
	75%	0.86	0.84	0.80	
	100%	0.90	0.89	0.87	
Bearing type	: Drive end : 6204 ZZ	Non drive end : 6202 ZZ	Foundation loads		
Sealing	: V'Ring	Without Bearing Seal	Max. traction	: 35 kgf	
			Max. compression	: 49 kgf	
Lubrication interval	: -	-			
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 5.79A SF 1.00 SFA 5.79A					
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
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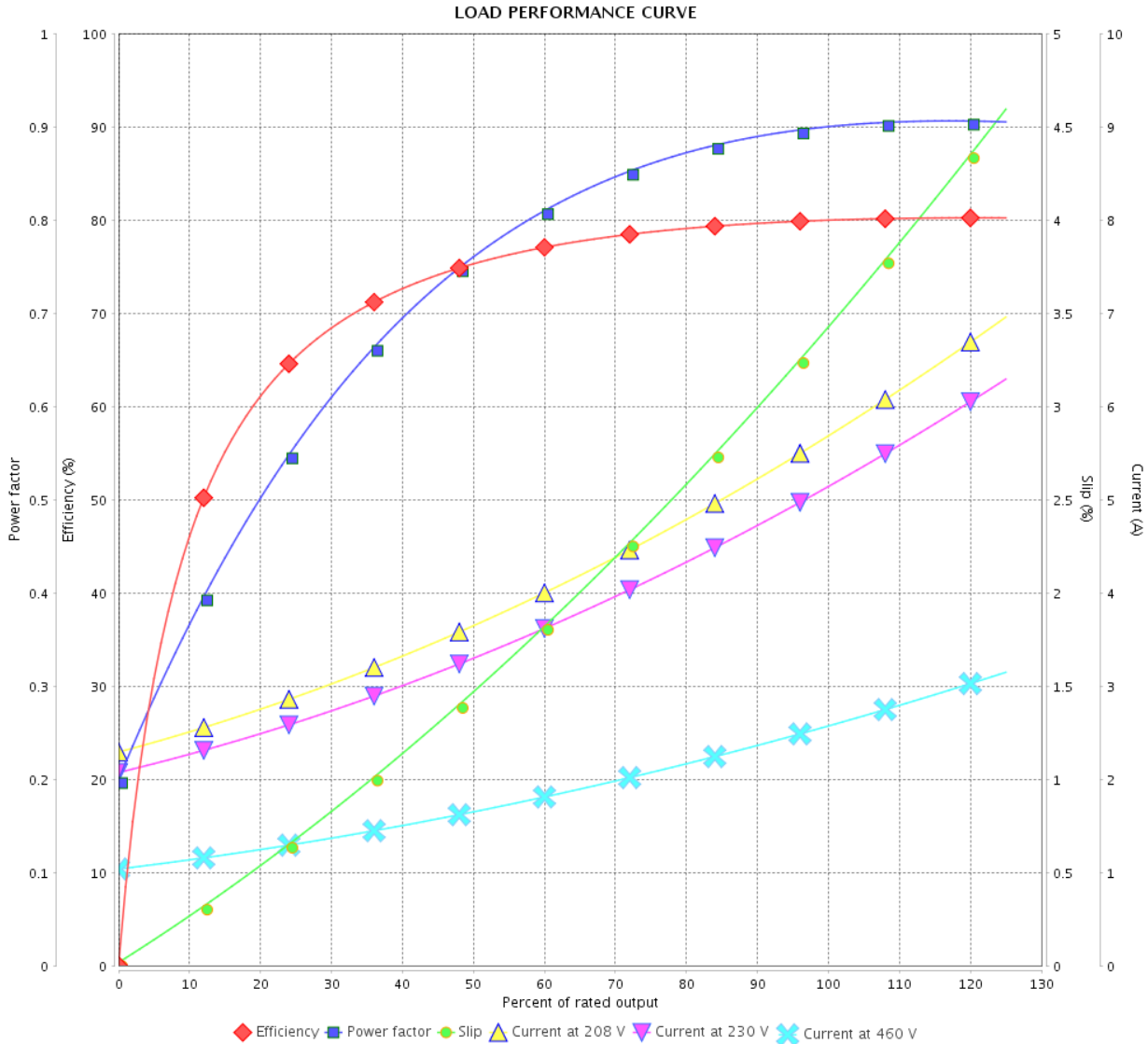
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805246



Performance : 230/460 V 60 Hz 2P

Rated current : 5.24/2.62 A
 LRC : 7.7
 Rated torque : 0.418 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 3475 rpm

Moment of inertia (J) : 0.0041 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
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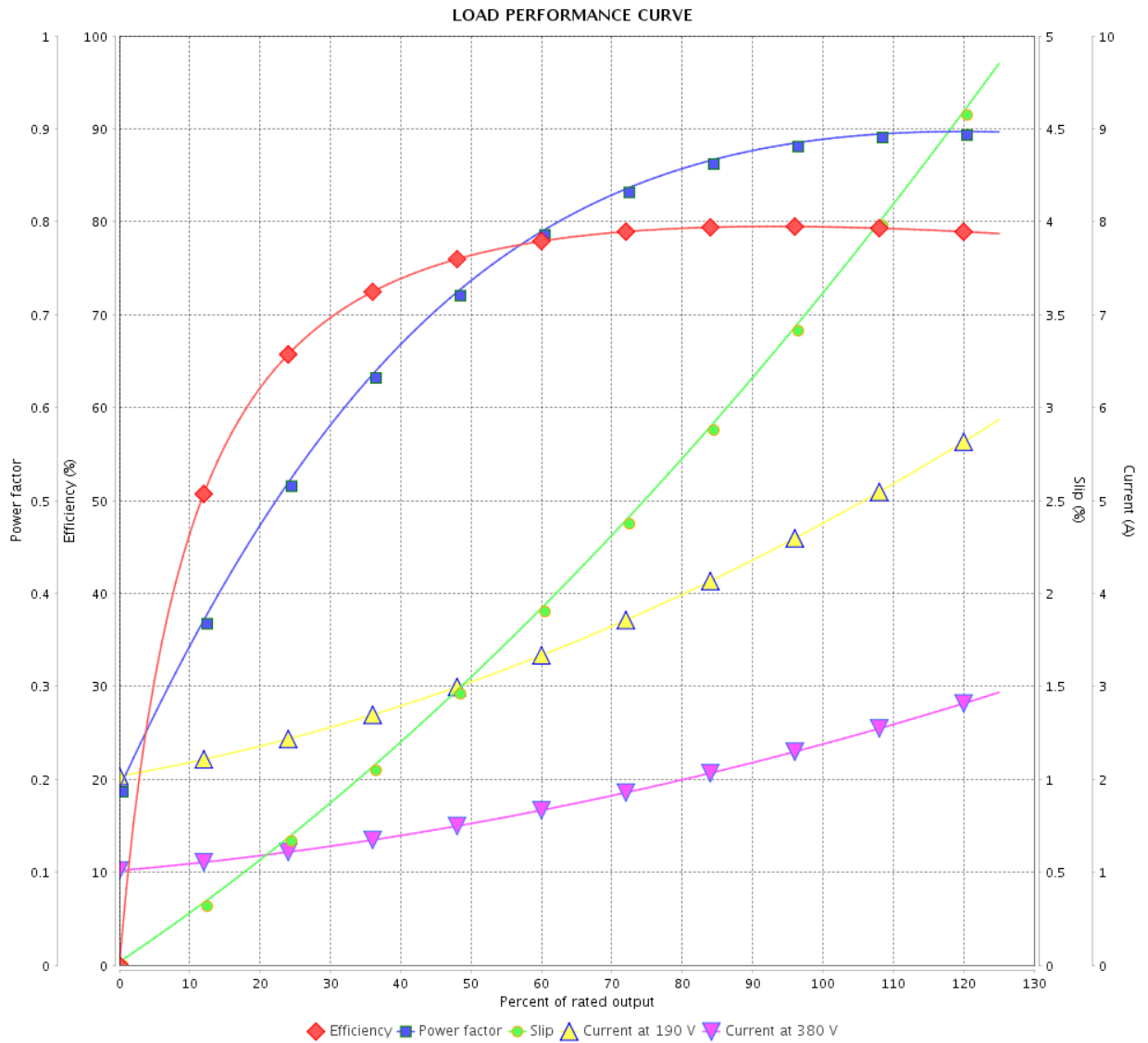
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 12805246



Performance : 190/380 V 50 Hz 2P

Rated current : 4.74/2.37 A
 LRC : 8.3
 Rated torque : 0.377 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 320 %
 Rated speed : 2890 rpm

Moment of inertia (J) : 0.0041 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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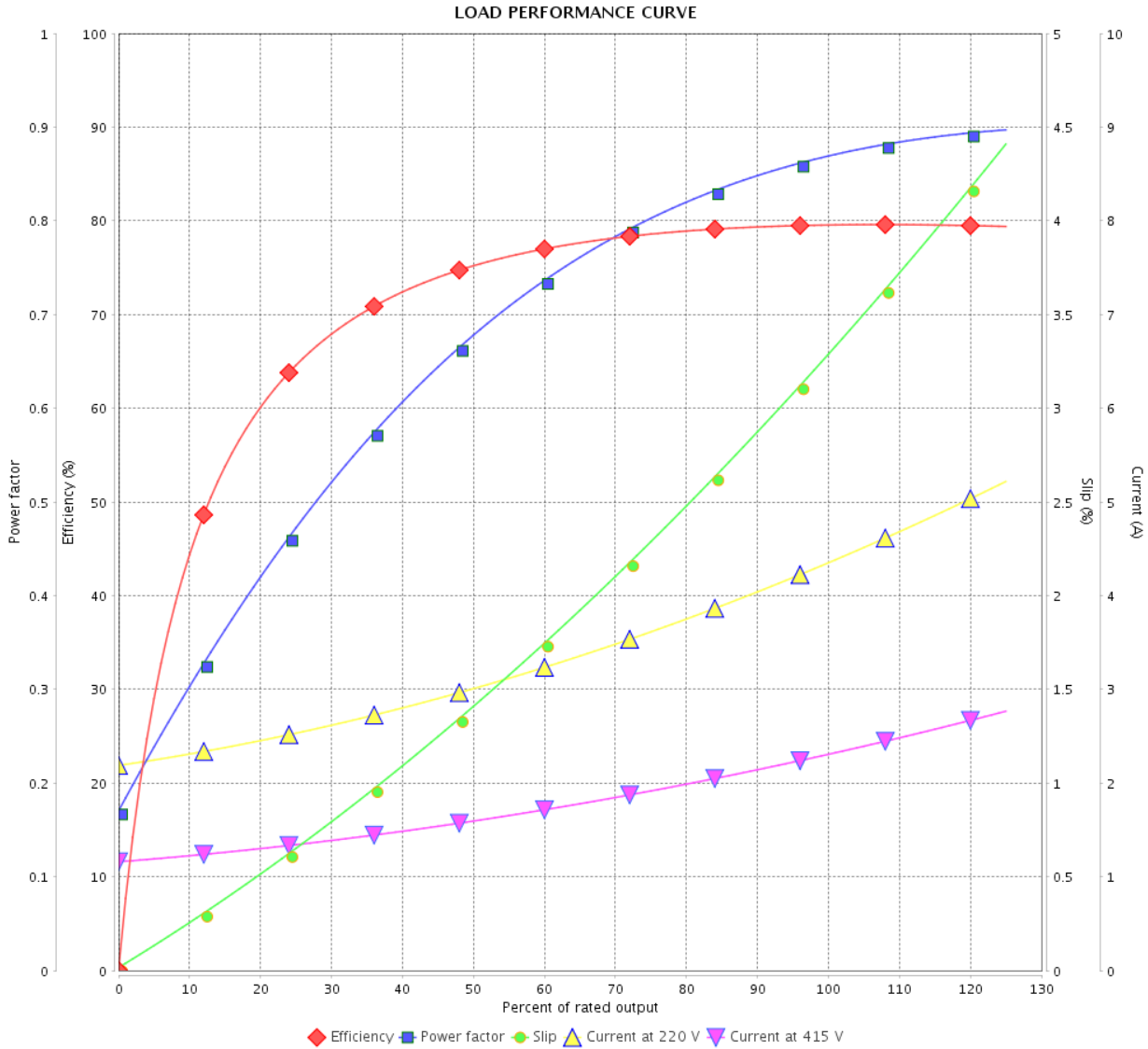
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Three Phase Induction Motor - Squirrel Cage



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Product line : Standard Efficiency Three-Phase Product code : 12805246

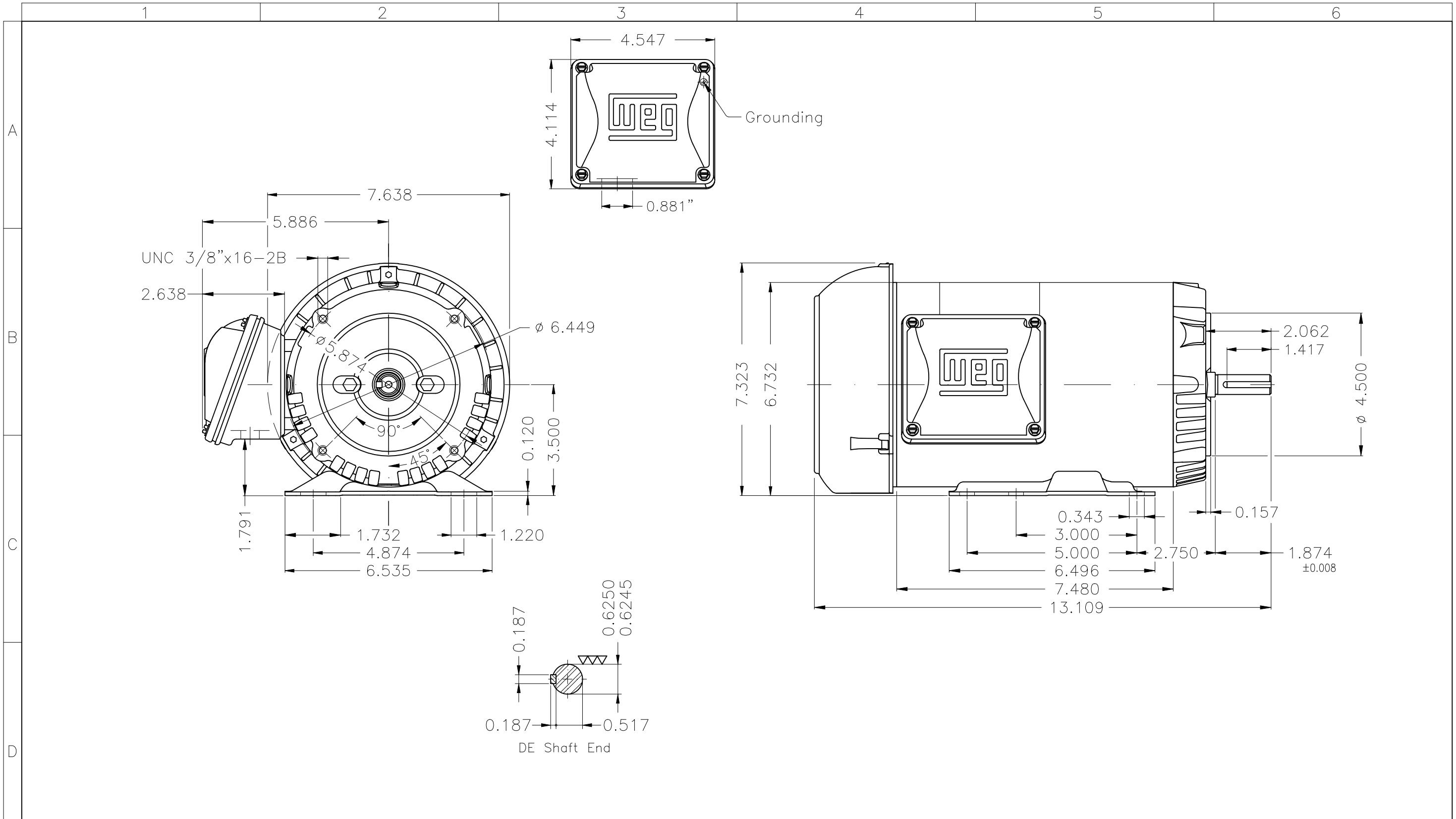


Performance : 220/415 V 50 Hz 2P

Rated current : 4.34/2.30 A
 LRC : 9.0
 Rated torque : 0.375 kgfm
 Locked rotor torque : 310 %
 Breakdown torque : 350 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0041 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
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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
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL FRAME 56HC IP55 TEFC			PREVIEW WDD 00 SHEET 1 / 1	
CHECKED						
RELEASED						
REL. DATE		WMO	Jaragua do Sul	Product Engineering		

2 HP 02 Poles 60 Hz

A

