

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :		
Product line	: Standard Efficiency Three-Phase	
Product code :	13714425	
Frame	: 56H	
Insulation class	: F	
Duty cycle	: Cont.(S1)	
Ambient temperature	: -20°C to +40°C	
Altitude	: 1000 m.a.s.l.	
Protection degree	: IP55	
Design	: A	
Cooling method	: IC411 - TEFC	
Mounting	: F-1	
Rotation ¹	: Both (CW and CCW)	
Starting method	: Direct On Line	
Approx. weight ²	: 15.9 kg	
Moment of inertia (J)	: 0.0067 kgm ²	
Output [HP]	1	
Poles	6	
Frequency [Hz]	60	
Rated voltage [V]	230/460	
Rated current [A]	3.34/1.67	
L. R. Amperes [A]	18.7/9.35	
LRC [A]	5.6x(Code J)	
No load current [A]	2.30/1.15	
Rated speed [RPM]	1145	
Slip [%]	4.58	
Rated torque [kgfm]	0.634	
Locked rotor torque [%]	210	
Breakdown torque [%]	260	
Service factor	1.15	
Temperature rise	80 K	
Locked rotor time	27s (cold) 15s (hot)	
Noise level ²	50.0 dB(A)	
Efficiency (%)	25%	
	50%	72.0
	75%	75.5
	100%	77.0
Power Factor	25%	
	50%	0.50
	75%	0.63
	100%	0.73
Bearing type	: Drive end 6204 ZZ Non drive end 6202 ZZ	
Sealing	: V'Ring V'Ring	
Lubrication interval	: - -	
Lubricant amount	: - -	
Lubricant type	: Mobil Polyrex EM	
Foundation loads	Max. traction : 48 kgf	
	Max. compression : 64 kgf	
Notes		
USABLE @208V 3.69A SF 1.00 SFA 3.69A		
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 by	Performed	
Checked by	Checked	
Date	11/05/2022	
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Revision		

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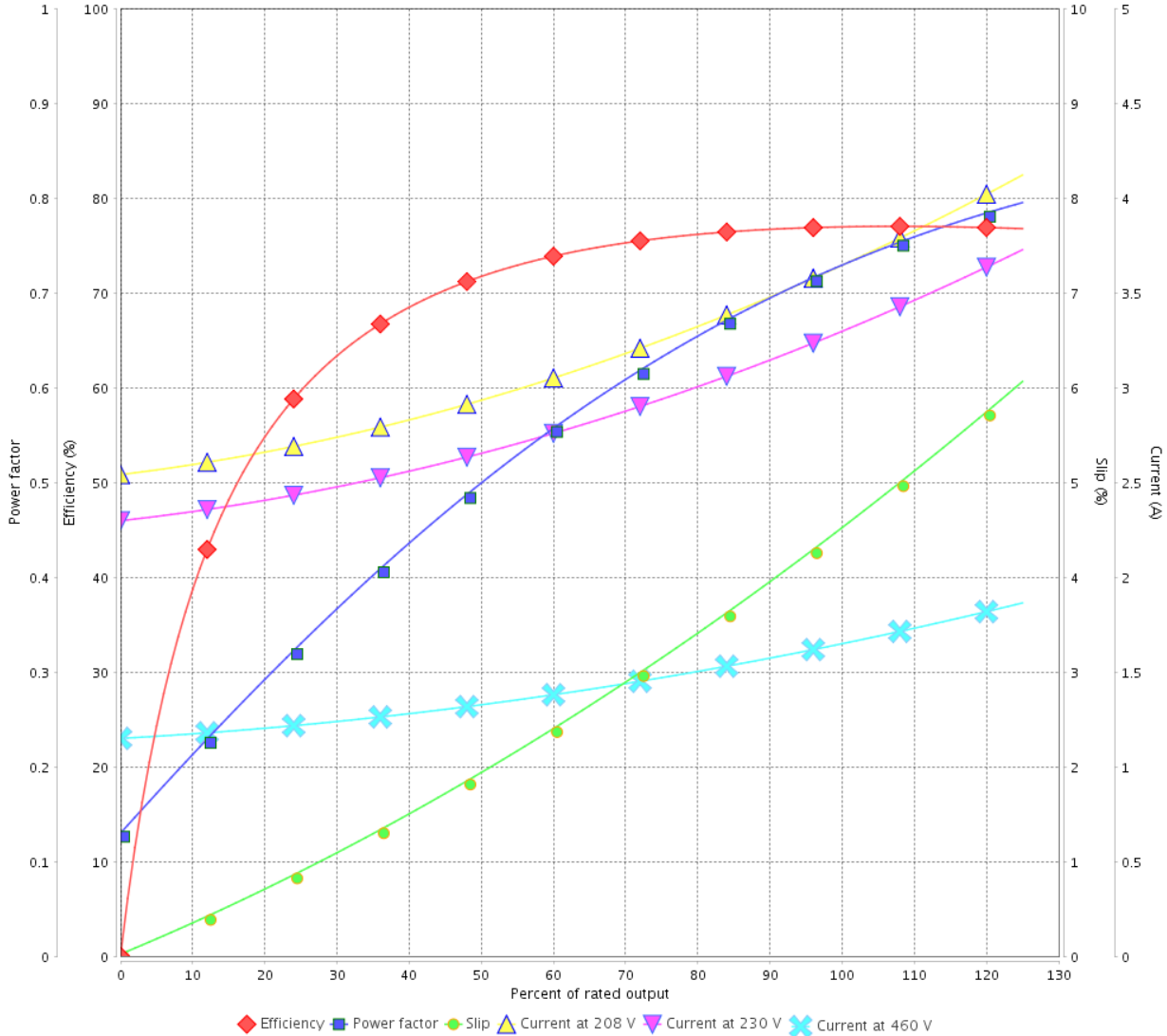
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13714425

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Performance : 230/460 V 60 Hz 6P

Rated current : 3.34/1.67 A
 LRC : 5.6
 Rated torque : 0.634 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 1145 rpm

Moment of inertia (J) : 0.0067 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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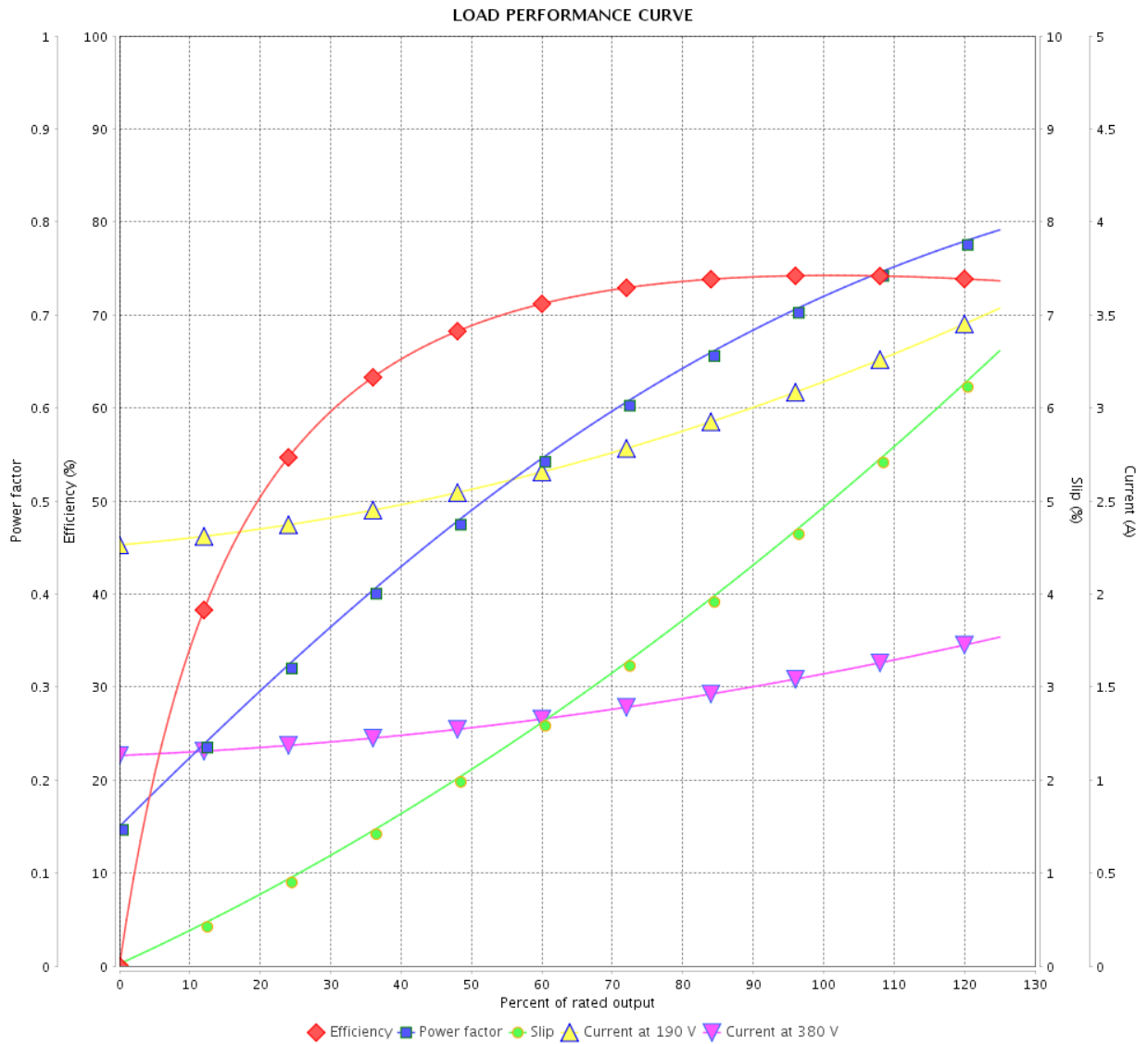
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 13714425



Performance : 190/380 V 50 Hz 6P

Rated current : 3.12/1.56 A
 LRC : 5.3
 Rated torque : 0.573 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 950 rpm

Moment of inertia (J) : 0.0067 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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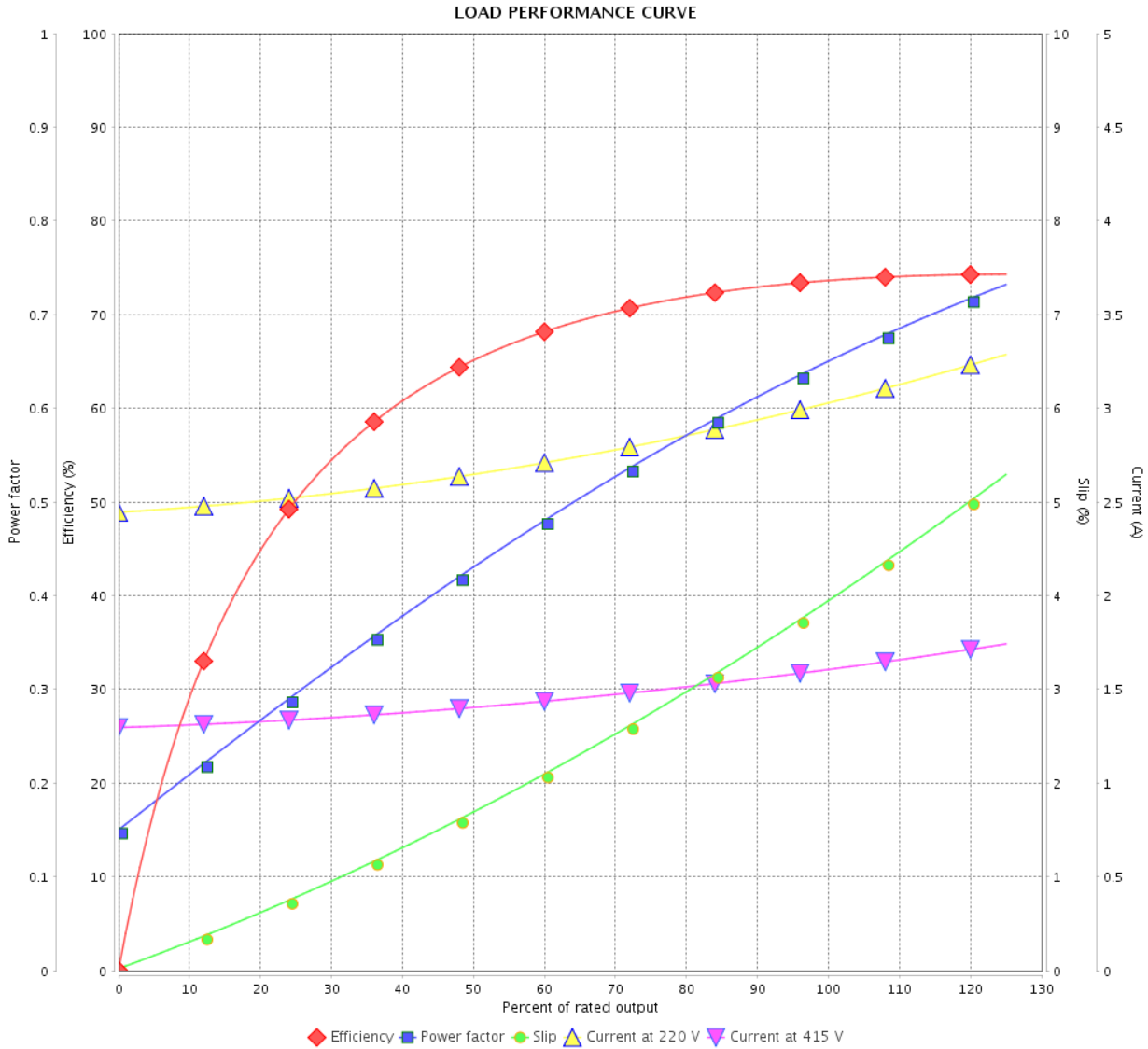
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13714425

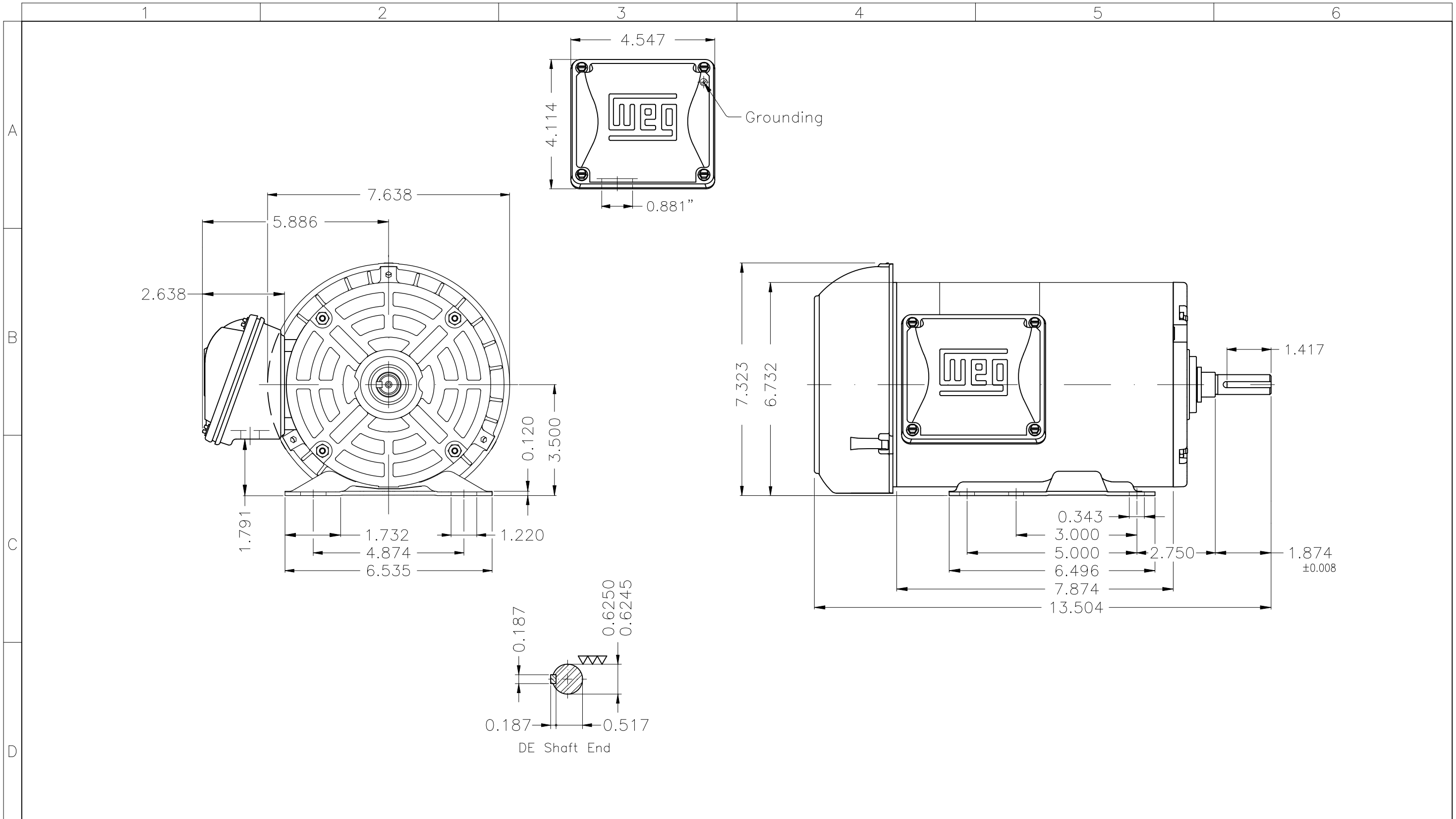


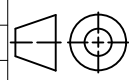

Performance : 220/415 V 50 Hz 6P

Rated current : 3.02/1.60 A
 LRC : 5.8
 Rated torque : 0.567 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 310 %
 Rated speed : 960 rpm

Moment of inertia (J) : 0.0067 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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Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B3R(D)									
					HYBRISUSER	00			
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL				PREVIEW			
CHECKED		FRAME 56H IP55 TEFC				WDD	00		
RELEASED						SHEET	1 / 1		
REL. DATE		WMO	Jaragua do Sul	Product Engineering					

1 HP 06 Poles 60 Hz

A