

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Three-Phase	Product code :	14709245	
Frame	: W56C	Cooling method	: IC411 - TEFC	
Insulation class	: F	Mounting	: F-1	
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 8.4 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0008 kgm <sup>2</sup>	
Output [HP]	0.5	0.5	0.5	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	208-230/460	190/380	220/415	
Rated current [A]	1.73-1.57/0.784	1.77/0.885	1.61/0.852	
L. R. Amperes [A]	13.3-12.1/6.04	10.3/5.13	10.3/5.45	
LRC [A]	7.7x(Code L)	5.8x(Code H)	6.4x(Code J)	
No load current [A]	0.719-0.834/0.417	0.816/0.408	0.830/0.440	
Rated speed [RPM]	3435	2780	2810	
Slip [%]	4.58	7.33	6.33	
Rated torque [kgfm]	0.106	0.131	0.129	
Locked rotor torque [%]	330	240	280	
Breakdown torque [%]	360	250	280	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	32s (cold) 18s (hot)	32s (cold) 18s (hot)	28s (cold) 16s (hot)	
Noise level <sup>2</sup>	65.0 dB(A)	64.0 dB(A)	64.0 dB(A)	
Efficiency (%)	25%			
	50%	68.0	71.4	
	75%	72.0	75.1	
	100%	74.0	75.5	
Power Factor	25%			
	50%	0.64	0.66	
	75%	0.75	0.78	
	100%	0.80	0.83	
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction	: 7 kgf	
Lubrication interval	: - -	Max. compression	: 15 kgf	
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V SF 1.00				
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

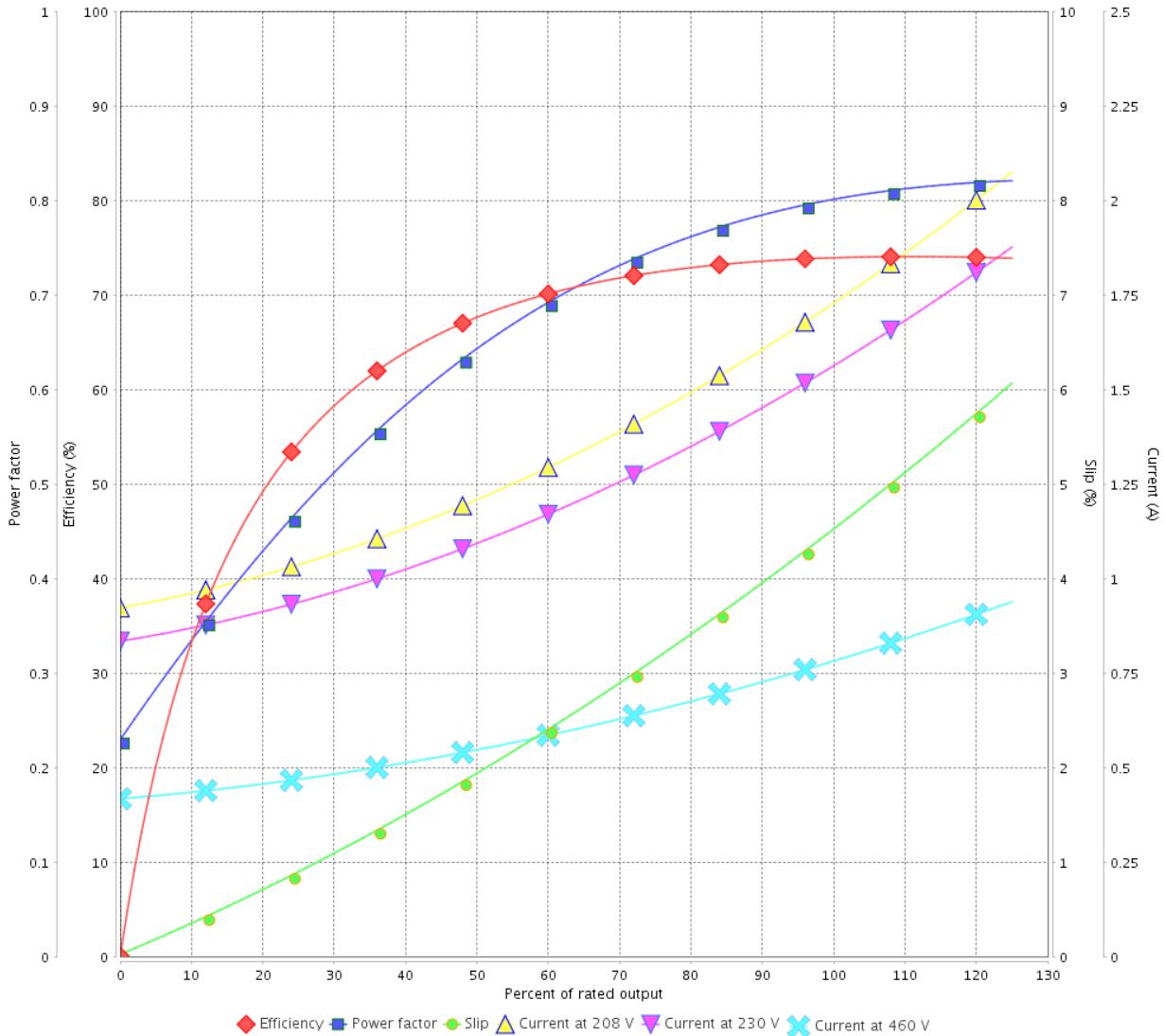


Customer :

Product line : Three-Phase

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LOAD PERFORMANCE CURVE



Performance : 208-230/460 V 60 Hz 2P

Rated current : 1.73-1.57/0.784 A  
 LRC : 7.7  
 Rated torque : 0.106 kgfm  
 Locked rotor torque : 330 %  
 Breakdown torque : 360 %  
 Rated speed : 3435 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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# LOAD PERFORMANCE CURVE

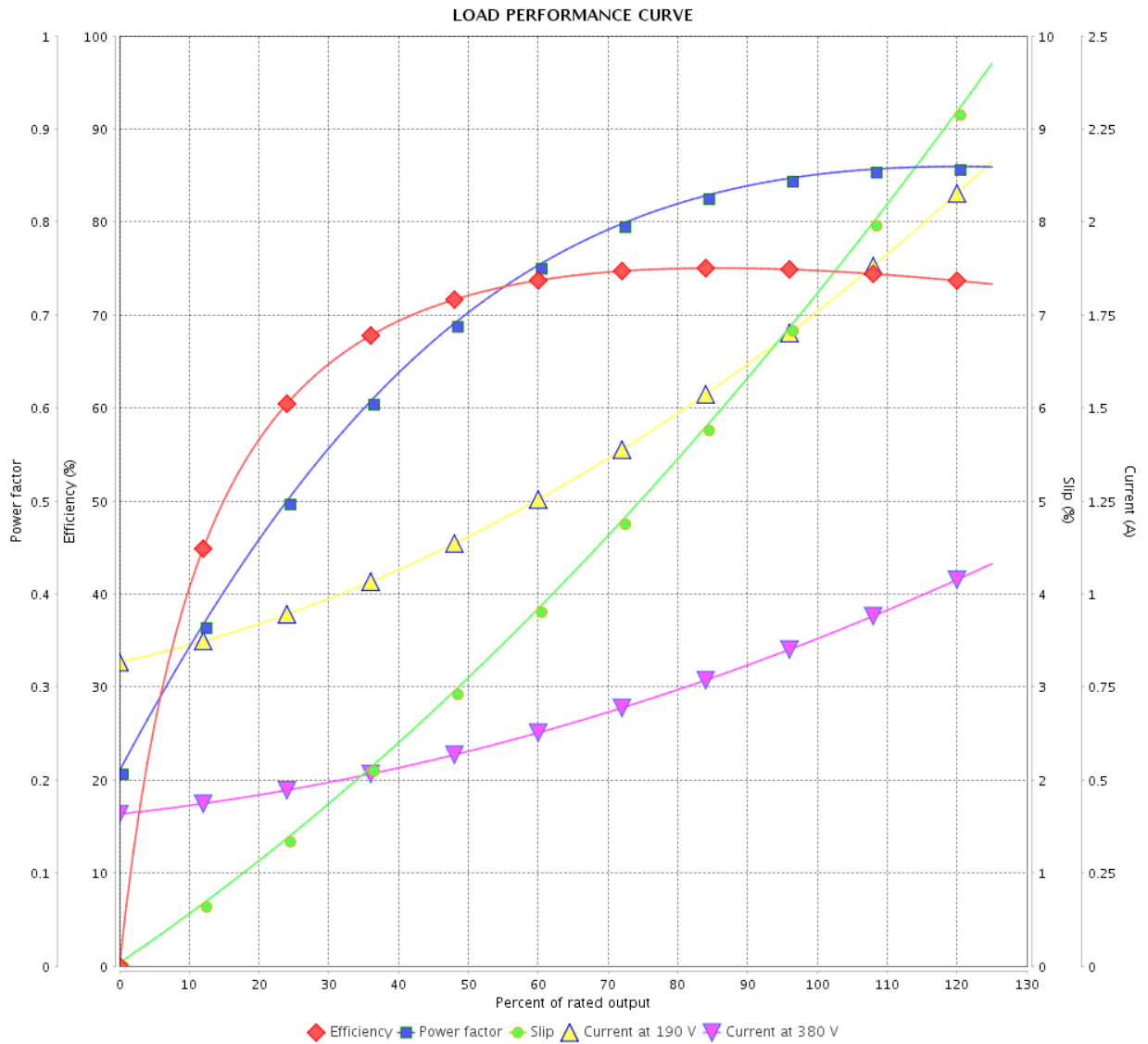
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 190/380 V 50 Hz 2P

Rated current : 1.77/0.885 A  
 LRC : 5.8  
 Rated torque : 0.131 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 250 %  
 Rated speed : 2780 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

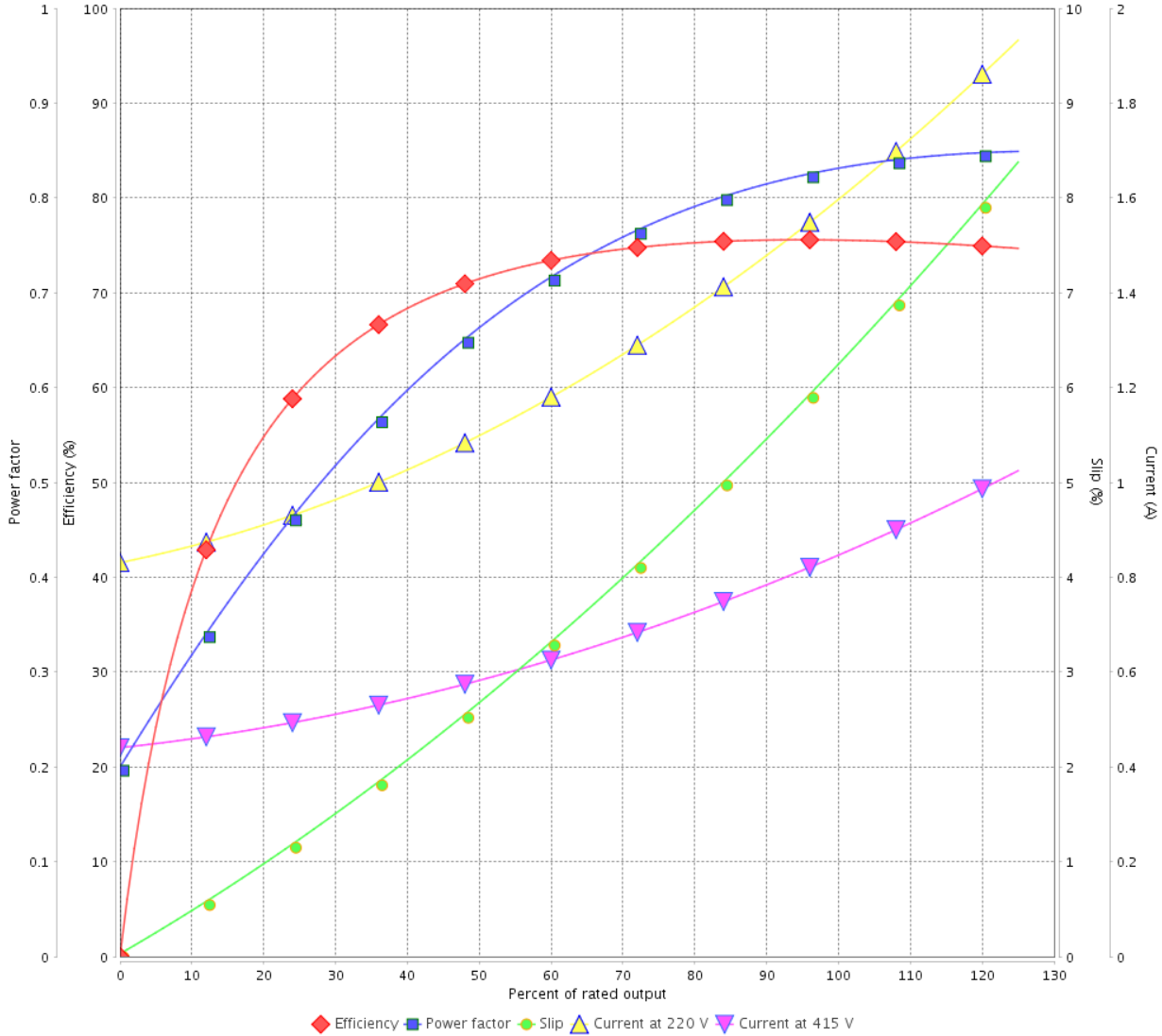


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LOAD PERFORMANCE CURVE

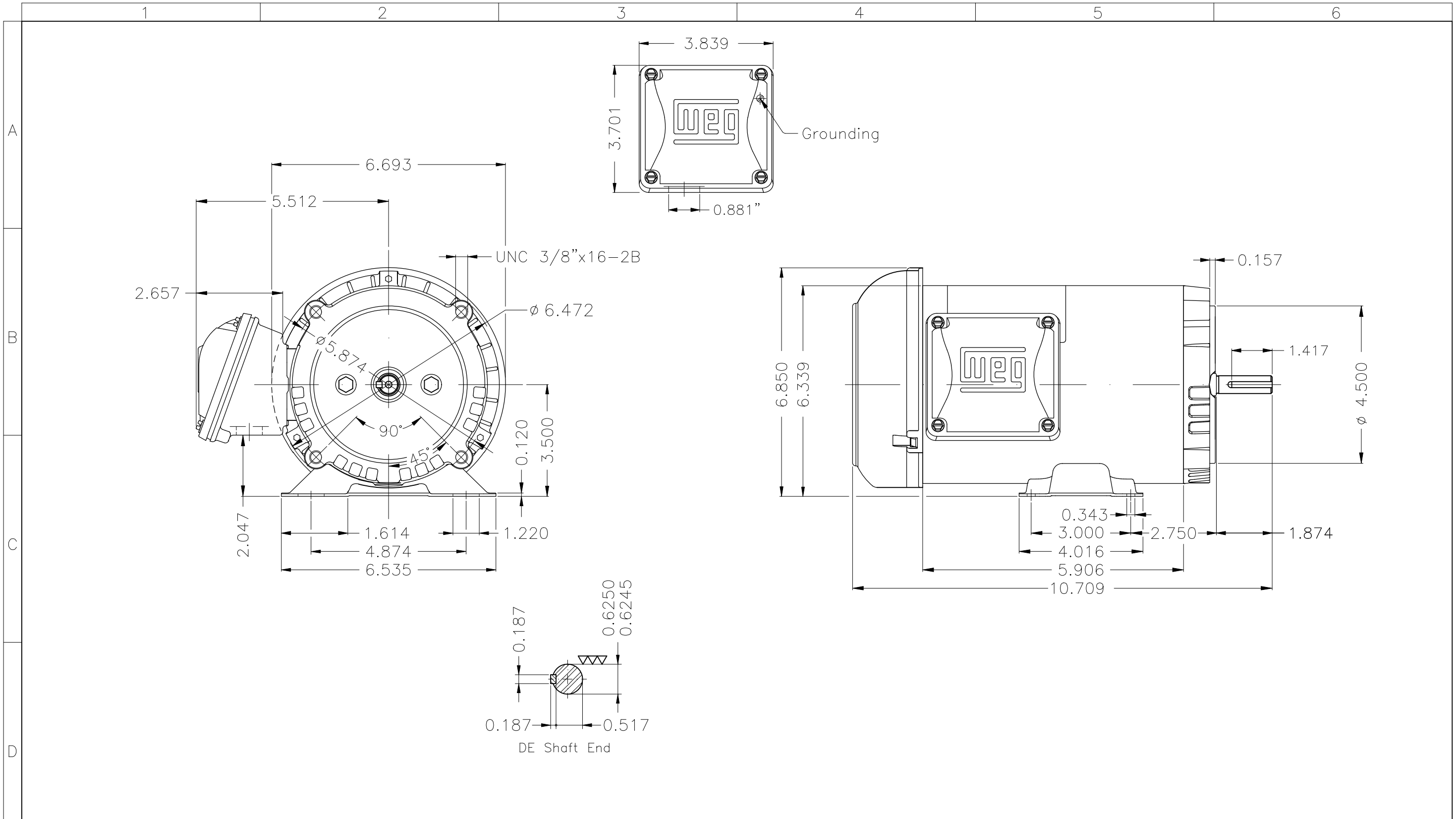


Performance : 220/415 V 50 Hz 2P

Rated current : 1.61/0.852 A  
 LRC : 6.4  
 Rated torque : 0.129 kgfm  
 Locked rotor torque : 280 %  
 Breakdown torque : 280 %  
 Rated speed : 2810 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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Color Munsell N 1 matte black  
 Painting plan 207N  
 Mounting B34D

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME W56C IP55 TEFC					
CHECKED							
RELEASED							
REL. DATE	WMO	Jaragua do Sul	Product Engineering	WDD	00	1 / 1	

0.5 HP 02 Poles 60 Hz

A

