

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : Three-Phase		Product code : 13989584			
Frame : W56C	Insulation class : F	Cooling method : IC411 - TEFC	Mounting : F-1		
Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Rotation ¹ : Both (CW and CCW)	Starting method : Direct On Line		
Altitude : 1000 m.a.s.l.	Protection degree : IP55	Approx. weight ² : 10.0 kg	Moment of inertia (J) : 0.0022 kgm ²		
Output [HP]	0.5	0.5	0.5		
Poles	4	4	4		
Frequency [Hz]	60	50	50		
Rated voltage [V]	208-230/460	190/380	220/415		
Rated current [A]	1.72-1.56/0.778	1.82/0.911	1.63/0.865		
L. R. Amperes [A]	11.0-9.96/4.98	8.56/4.28	8.97/4.76		
LRC [A]	6.4x(Code J)	4.7x(Code G)	5.5x(Code H)		
No load current [A]	0.855-0.992/0.496	0.980/0.490	1.04/0.549		
Rated speed [RPM]	1730	1400	1415		
Slip [%]	3.89	6.67	5.67		
Rated torque [kgfm]	0.210	0.259	0.256		
Locked rotor torque [%]	229	170	210		
Breakdown torque [%]	310	200	250		
Service factor		1.15	1.15		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	36s (cold) 20s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)		
Noise level ²	50.0 dB(A)	49.0 dB(A)	49.0 dB(A)		
Efficiency (%)	25%				
	50%	74.0	73.9	72.2	
	75%	77.0	75.4	75.5	
	100%	78.5	73.5	75.3	
Power Factor	25%				
	50%	0.54	0.63	0.56	
	75%	0.67	0.77	0.70	
	100%	0.76	0.84	0.79	
Bearing type	: Drive end 6203 ZZ	Non drive end 6202 ZZ	Foundation loads		
Sealing	: V'Ring	V'Ring	Max. traction : 15 kgf		
Lubrication interval	: -	-	Max. compression : 25 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
Date	11/05/2022			1 / 4	

LOAD PERFORMANCE CURVE

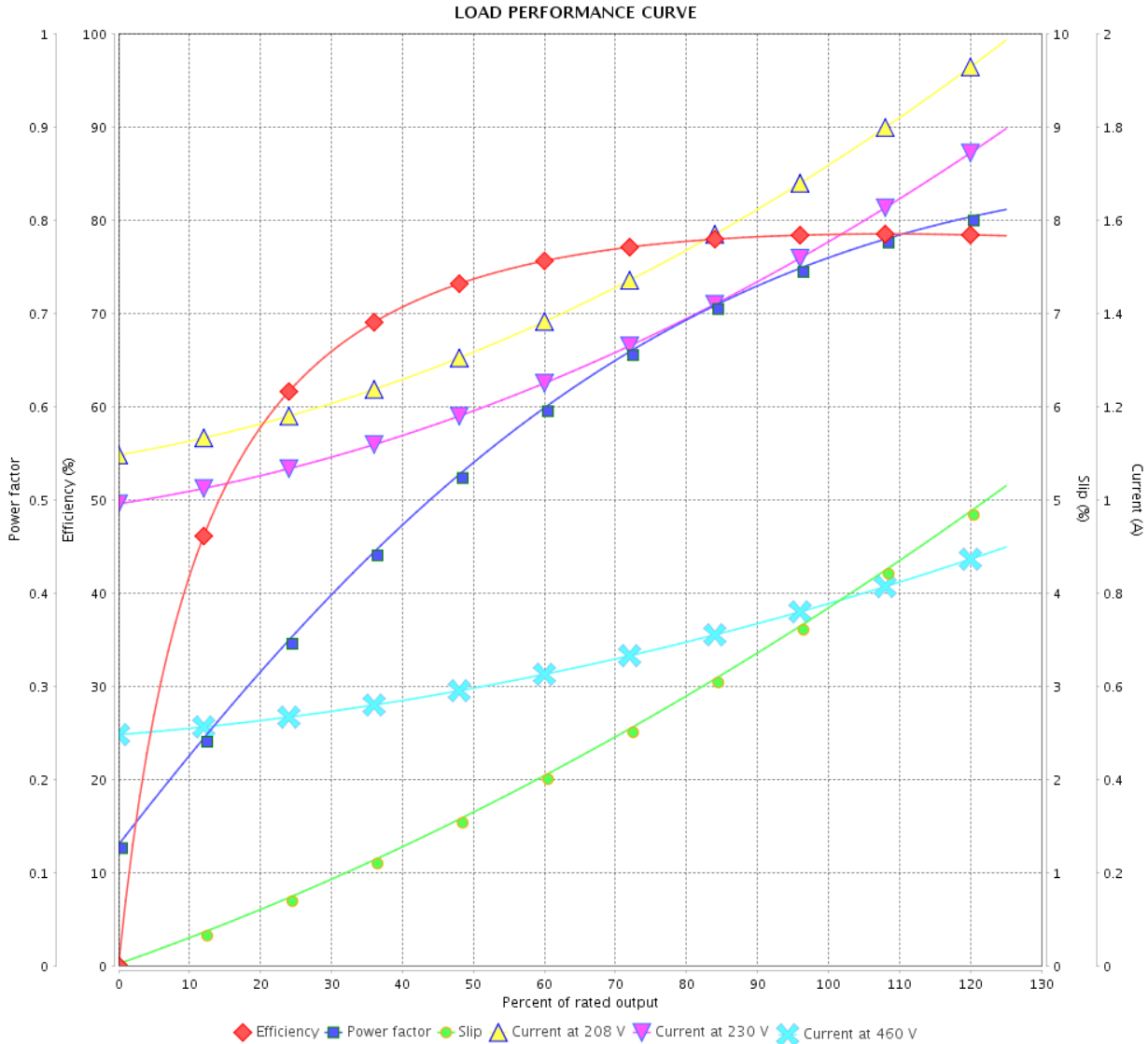
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13989584



Performance : 208-230/460 V 60 Hz 4P

Rated current : 1.72-1.56/0.778 A
 LRC : 6.4
 Rated torque : 0.210 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 310 %
 Rated speed : 1730 rpm

Moment of inertia (J) : 0.0022 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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

LOAD PERFORMANCE CURVE

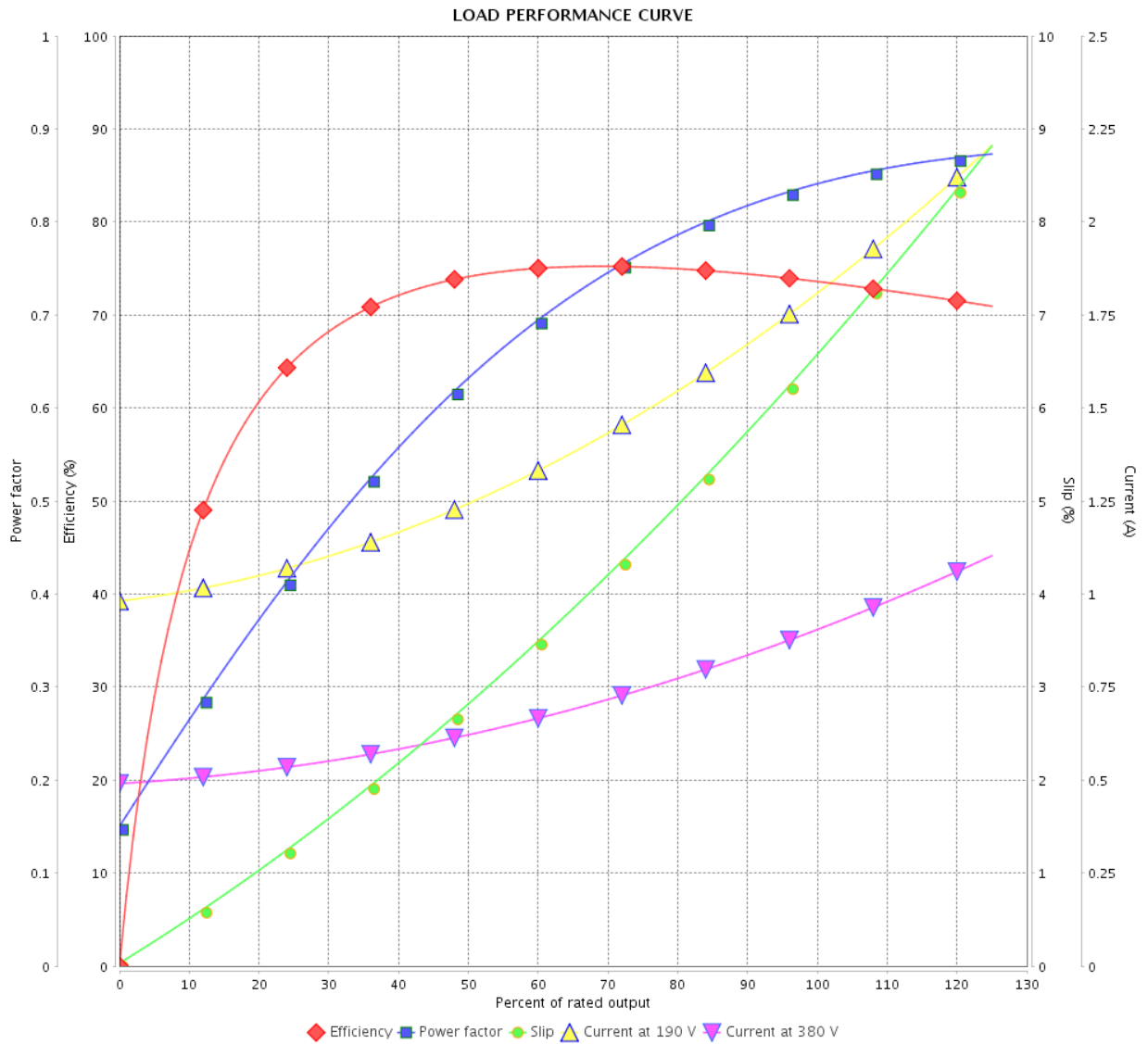
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Three-Phase

Product code : 13989584



Performance : 190/380 V 50 Hz 4P

Rated current : 1.82/0.911 A
 LRC : 4.7
 Rated torque : 0.259 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 200 %
 Rated speed : 1400 rpm

Moment of inertia (J) : 0.0022 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 4	Revision
Checked by				
Date	11/05/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

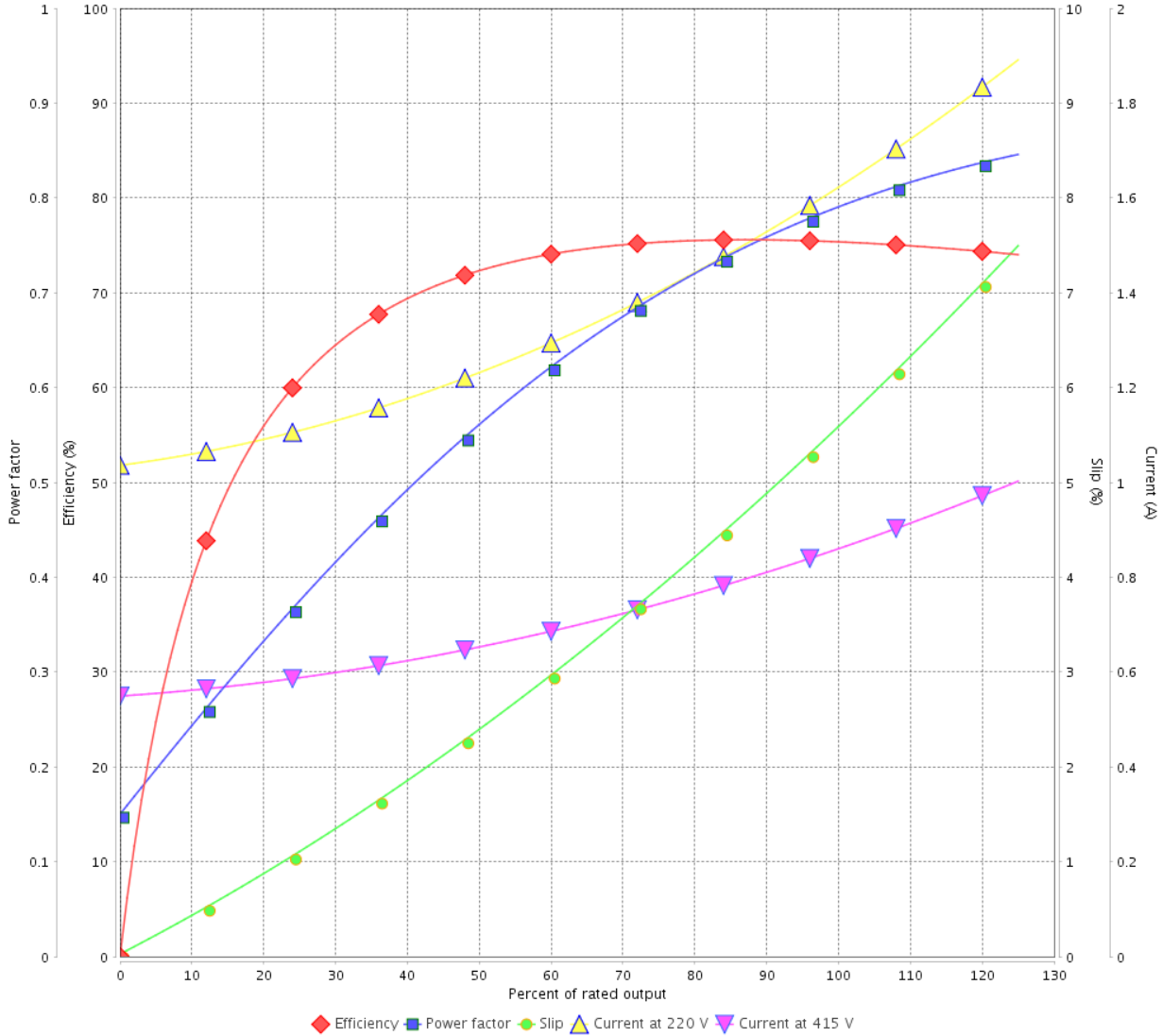


Customer :

Product line : Three-Phase

Product code : 13989584

LOAD PERFORMANCE CURVE

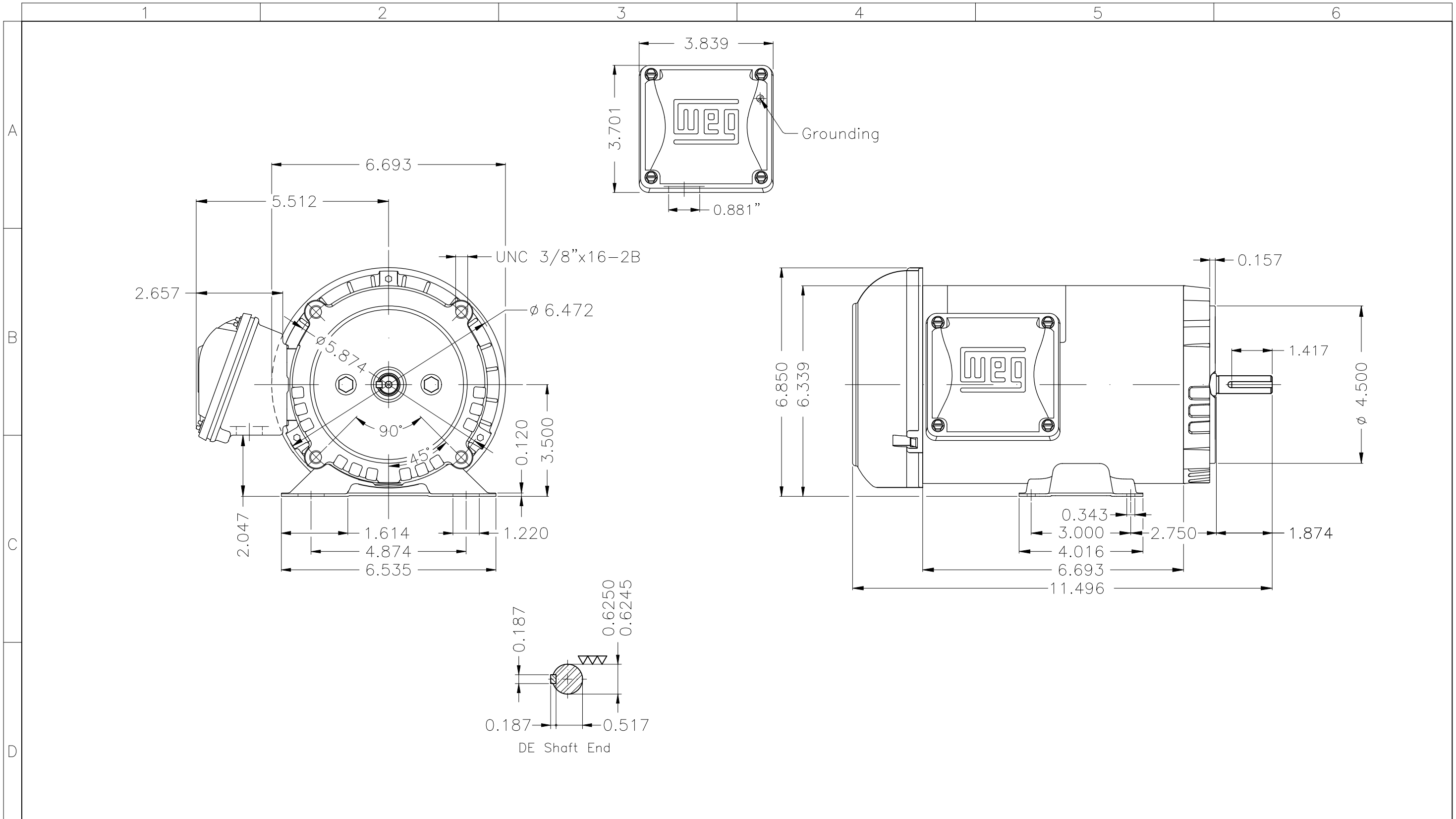


Performance : 220/415 V 50 Hz 4P

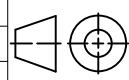
Rated current : 1.63/0.865 A
 LRC : 5.5
 Rated torque : 0.256 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1415 rpm

Moment of inertia (J) : 0.0022 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 4	Revision
Checked by				
Date	11/05/2022			



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	SHEET 1 / 1			

0.5 HP 04 Poles 60 Hz

A

PREVIEW
 WDD 00

