

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Three-Phase		Product code : 13702735		
Frame : 56HC	Insulation class : F	Cooling method : IC01 - ODP	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.	Design : A	Approx. weight ³ : 17.4 kg	Moment of inertia (J) : 0.0049 kgm ²	
Output [HP]	2	2	2	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	5.38/2.69	6.52/3.26	5.79/3.07	
L. R. Amperes [A]	41.4/20.7	36.5/18.3	38.8/20.6	
LRC [A]	7.7x(Code K)	5.6x(Code G)	6.7x(Code J)	
No load current [A]	2.75/1.38	2.70/1.35	3.08/1.63	
Rated speed [RPM]	1740	1410	1430	
Slip [%]	3.33	6.00	4.67	
Rated torque [kgfm]	0.834	1.03	1.02	
Locked rotor torque [%]	260	200	250	
Breakdown torque [%]	320	229	280	
Service factor		1.00	1.00	
Temperature rise	80 K	105 K	80 K	
Locked rotor time	30s (cold) 17s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%			
	50%	85.5	85.9	84.6
	75%	86.5	85.0	85.2
	100%	86.5	82.2	83.8
Power Factor	25%			
	50%	0.61	0.69	0.61
	75%	0.74	0.80	0.74
	100%	0.81	0.85	0.81
Bearing type : 6204 ZZ	Drive end	Non drive end	Foundation loads	
Sealing : Without			Max. traction : 83 kgf	
	Bearing Seal	Bearing Seal	Max. compression : 100 kgf	
Lubrication interval : -	-	-		
Lubricant amount : -	-	-		
Lubricant type : Mobil Polyrex EM				
Notes USABLE @208V 5.95A SF 1.00 SFA 5.95A				
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
Performed by				
Checked by			Page	Revision
Date	17/05/2022		1 / 4	

LOAD PERFORMANCE CURVE

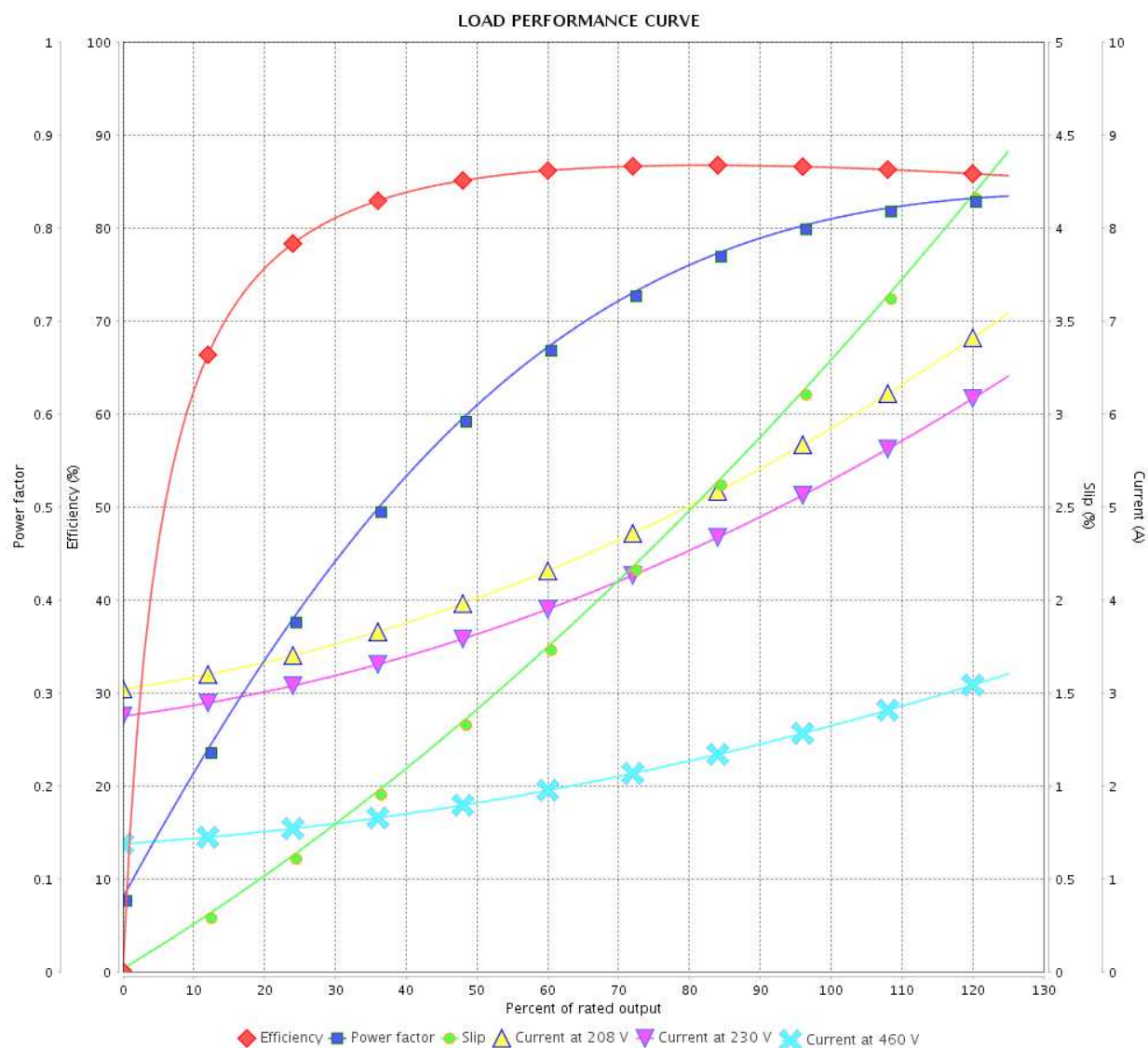
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13702735



Performance : 230/460 V 60 Hz 4P

Rated current : 5.38/2.69 A
 LRC : 7.7
 Rated torque : 0.834 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 320 %
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0049 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				2 / 4	
Date					

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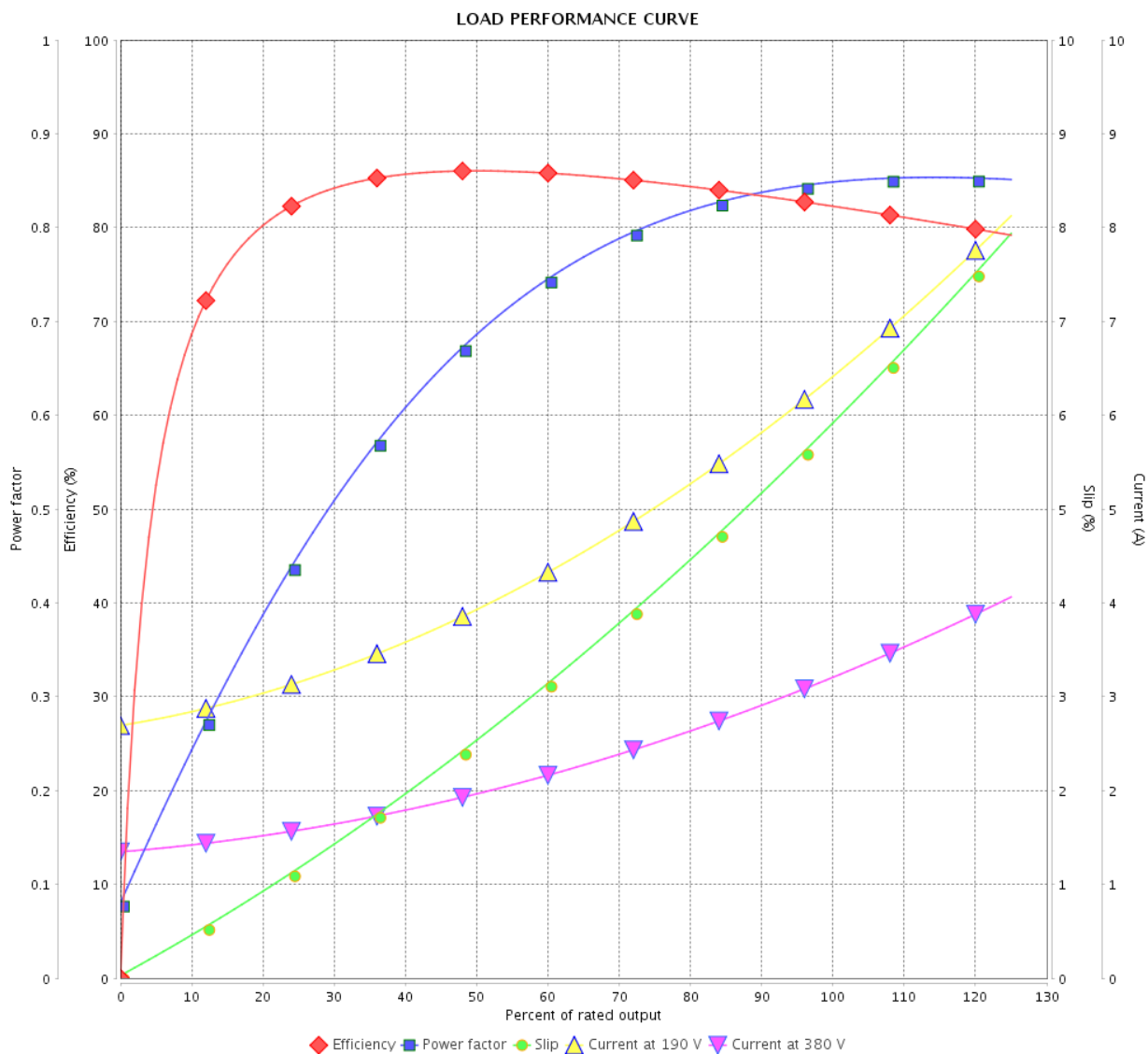
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13702735



Performance : 190/380 V 50 Hz 4P

Rated current : 6.52/3.26 A
 LRC : 5.6
 Rated torque : 1.03 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 1410 rpm

Moment of inertia (J) : 0.0049 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 4Revision		
Checked by				
Date	17/05/2022			

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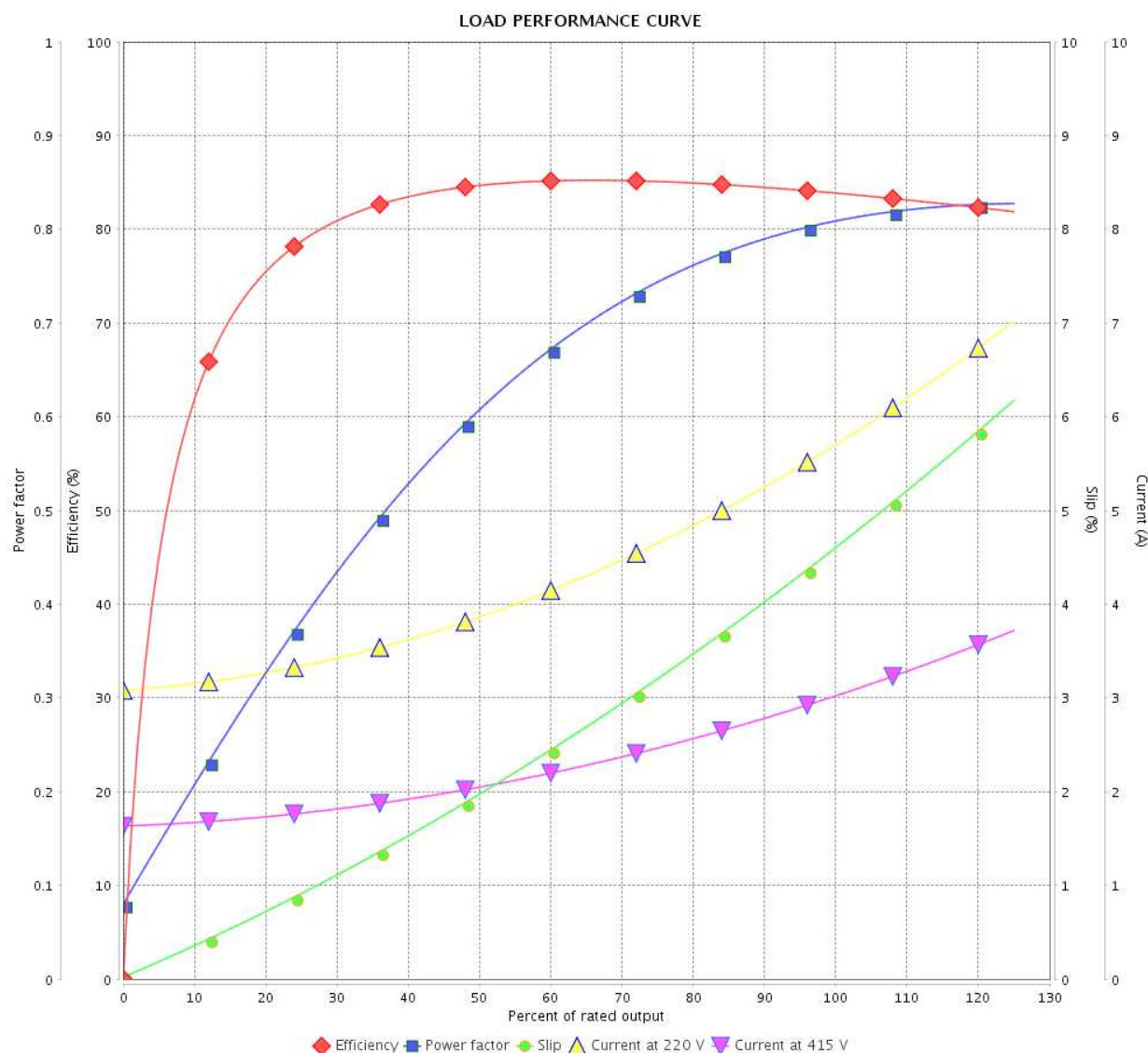
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13702735

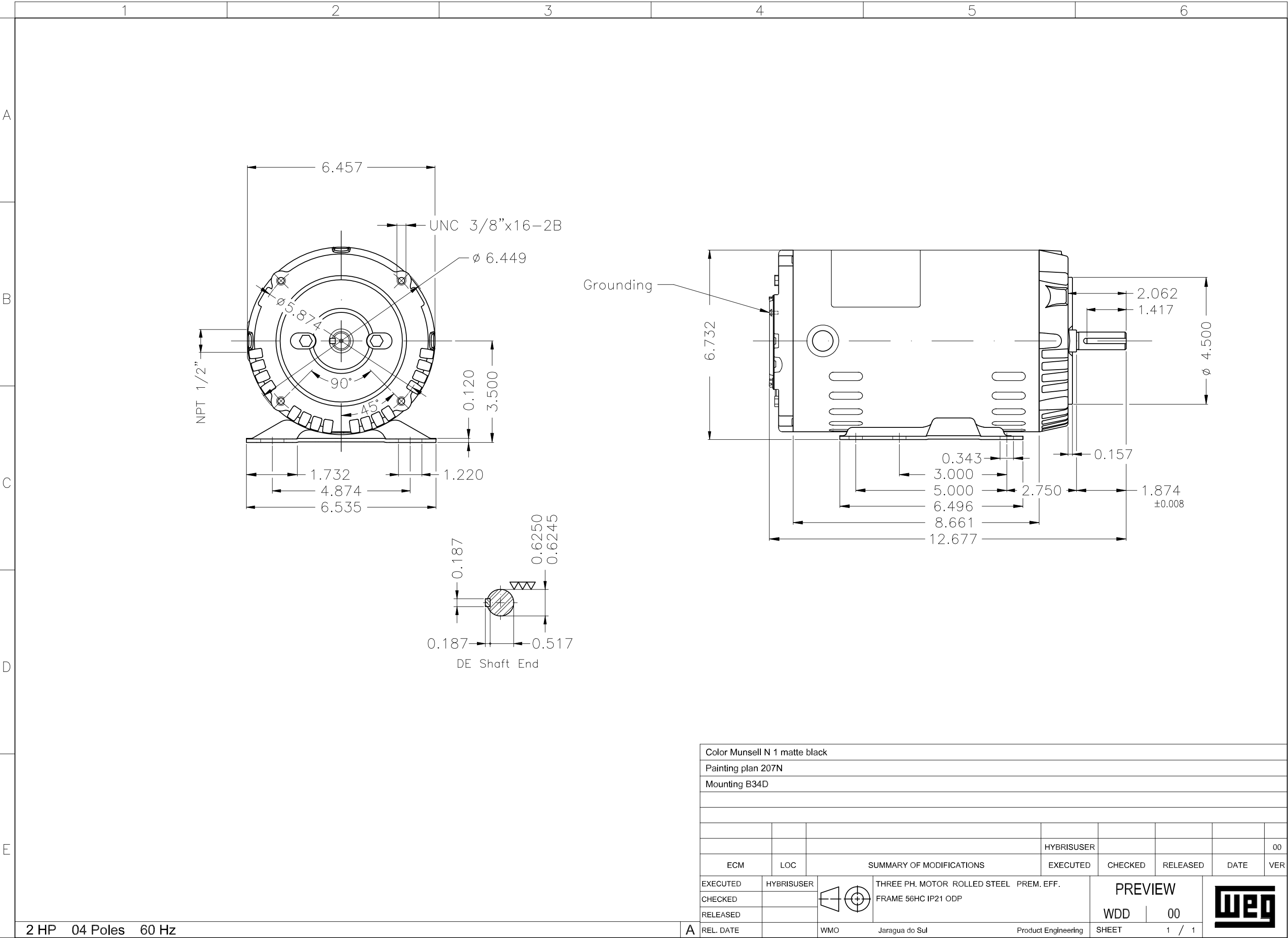


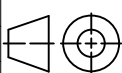
Performance : 220/415 V 50 Hz 4P

Rated current : 5.79/3.07 A
 LRC : 6.7
 Rated torque : 1.02 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 280 %
 Rated speed : 1430 rpm

Moment of inertia (J) : 0.0049 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision		
Checked by				
Date	17/05/2022			



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 PREM. EFF. FRAME 56HC IP21 ODP				PREVIEW			
CHECKED									
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1	/	1	