

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13737451

Frame	: 56	Cooling method	: IC01 - ODP
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	: 10.7 kg
		Moment of inertia (J)	: 0.0030 kgm ²

Output [HP]	0.75	0.75	0.75
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	2.54-2.30/1.15	2.62/1.31	2.43/1.29
L. R. Amperes [A]	18.5-16.8/8.40	14.9/7.47	15.6/8.26
LRC [A]	7.3x(Code K)	5.7x(Code H)	6.4x(Code J)
No load current [A]	1.38-1.60/0.800	1.53/0.763	1.73/0.917
Rated speed [RPM]	1760	1445	1455
Slip [%]	2.22	3.67	3.00
Rated torque [kgfm]	0.309	0.377	0.374
Locked rotor torque [%]	250	170	210
Breakdown torque [%]	300	240	290
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	37s (cold) 21s (hot)	43s (cold) 24s (hot)	36s (cold) 20s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	74.0	73.6
	75%	78.5	77.8
	100%	81.1	78.9
Power Factor	25%		
	50%	0.52	0.52
	75%	0.65	0.65
	100%	0.74	0.75

Bearing type	: Drive end	Non drive end	Foundation loads
	: 6203 ZZ	6202 ZZ	
Sealing	: Without	Without	Max. traction : 29 kgf
	: Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	Max. compression : 40 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				
Date	17/05/2022			

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Revision

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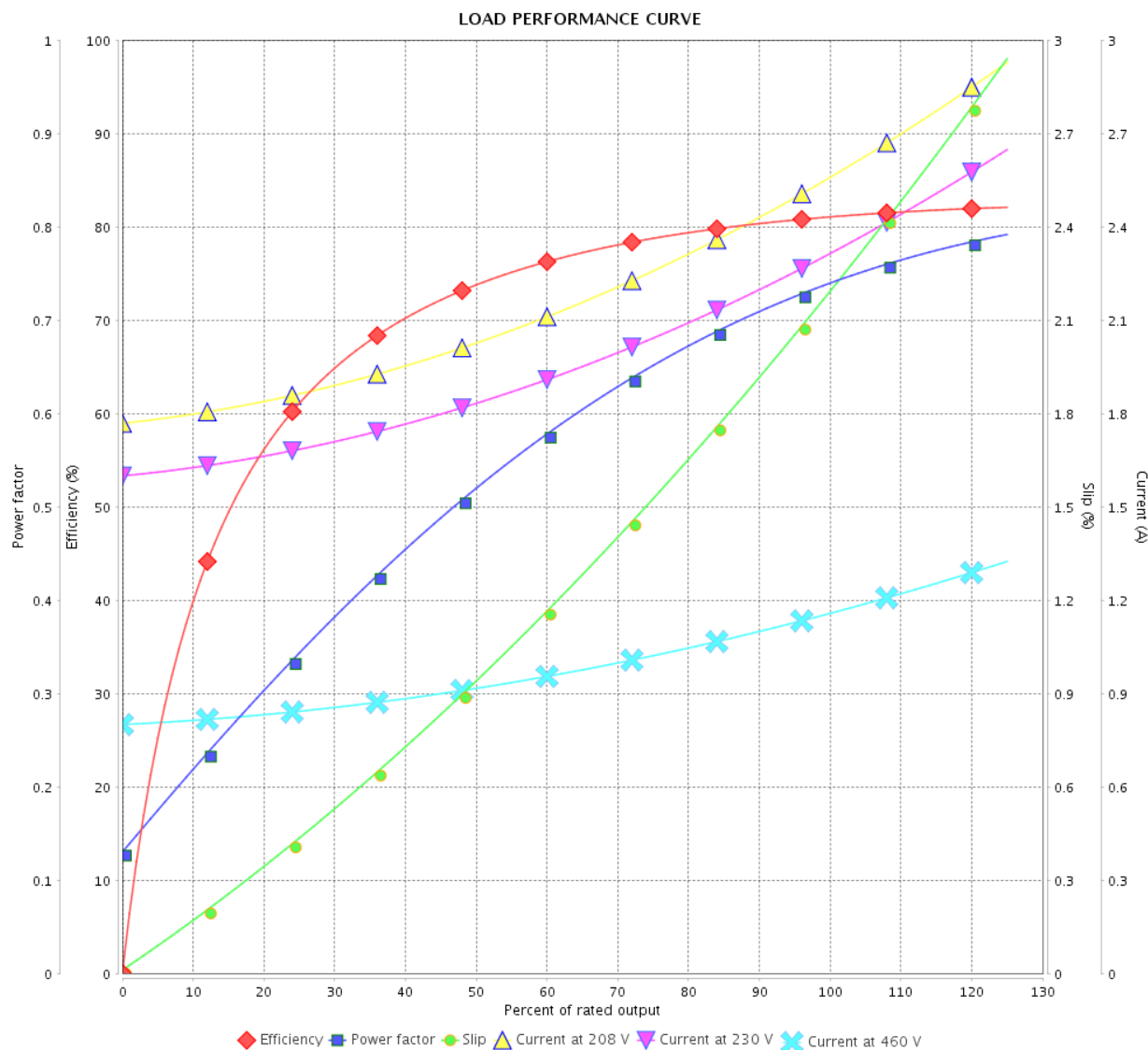
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13737451



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

Rated current : 2.54-2.30/1.15 A
 LRC : 7.3
 Rated torque : 0.309 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0030 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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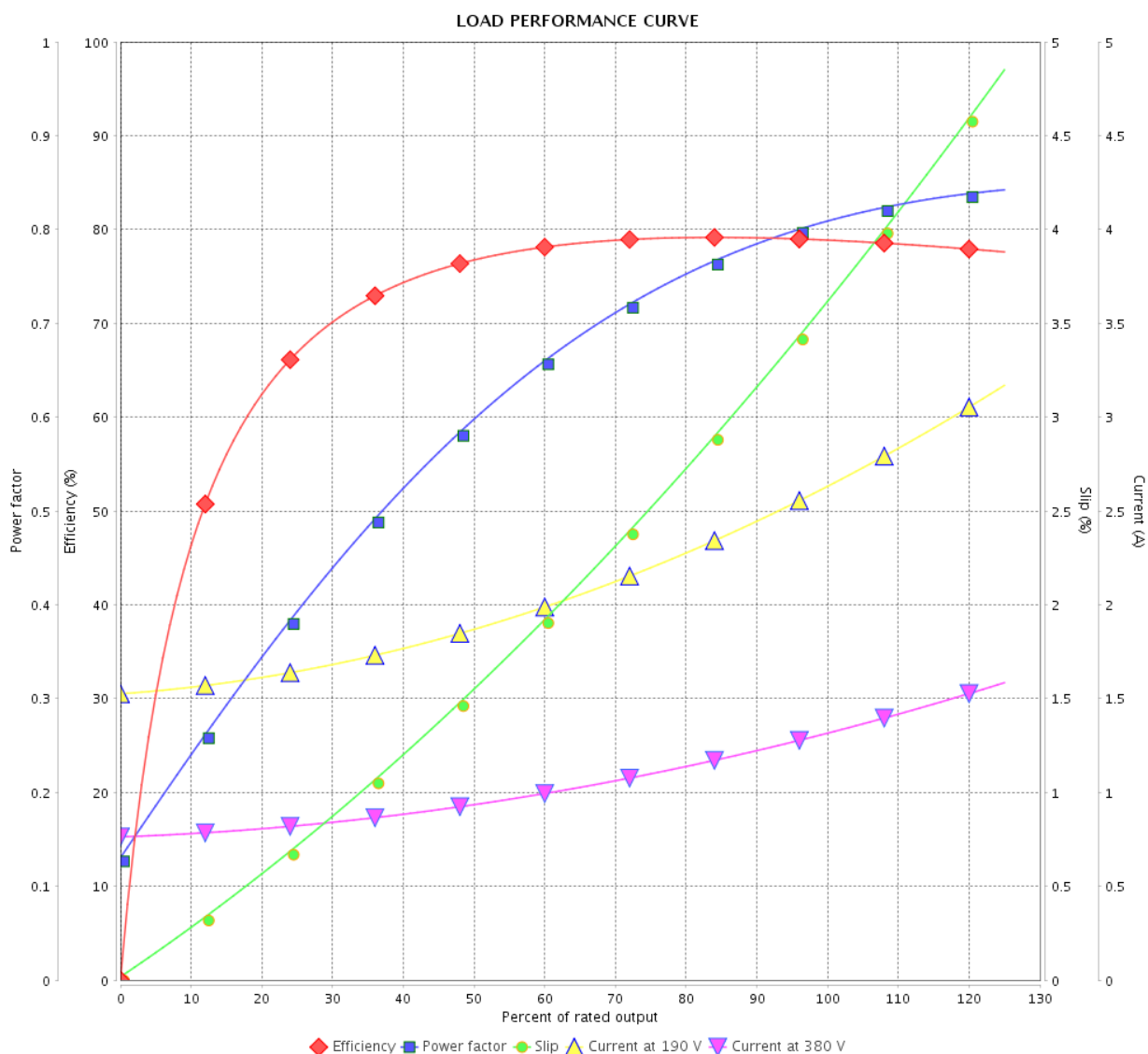
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13737451



Performance : 190/380 V 50 Hz 4P

Rated current : 2.62/1.31 A
 LRC : 5.7
 Rated torque : 0.377 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 240 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0030 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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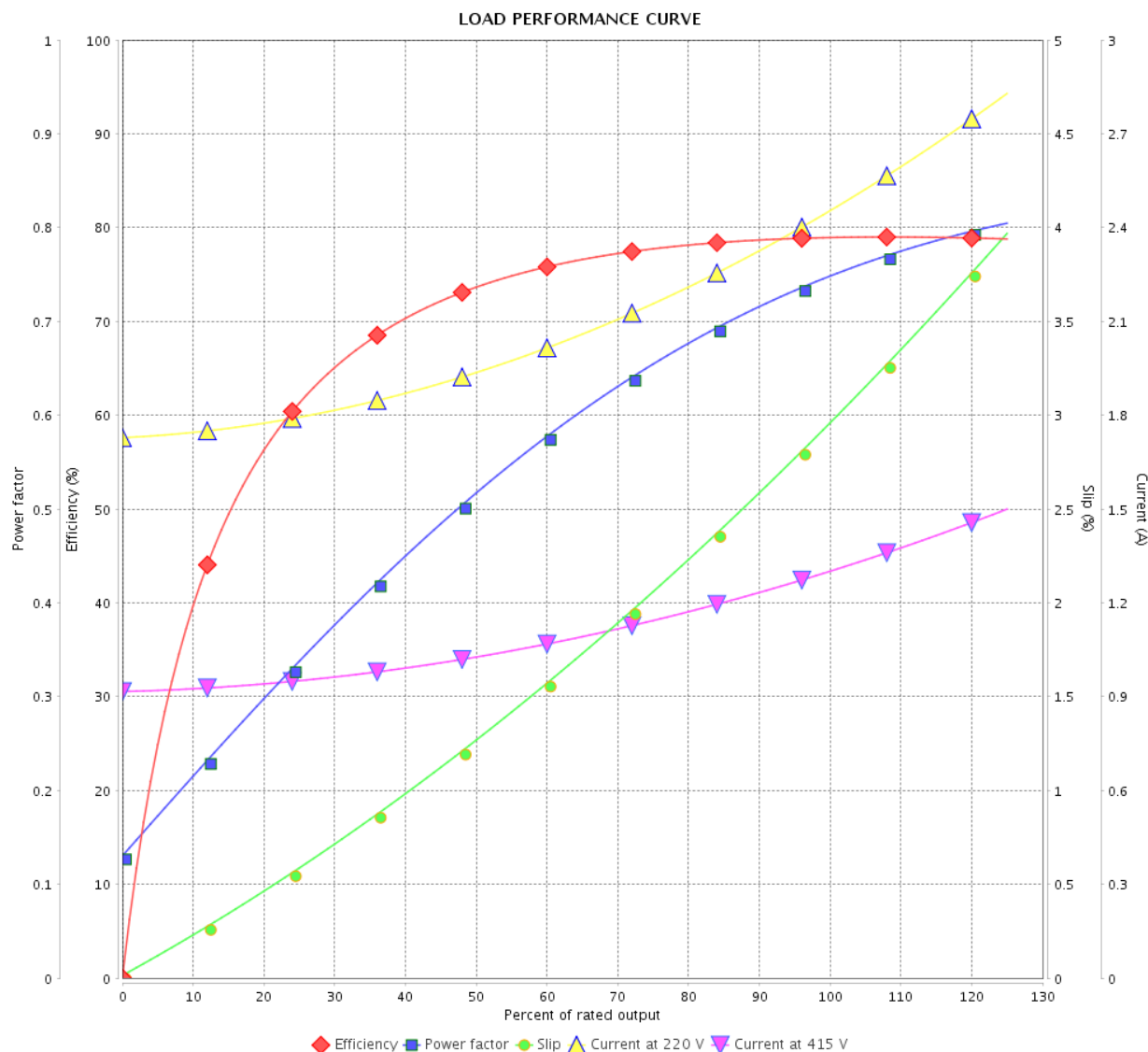
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13737451

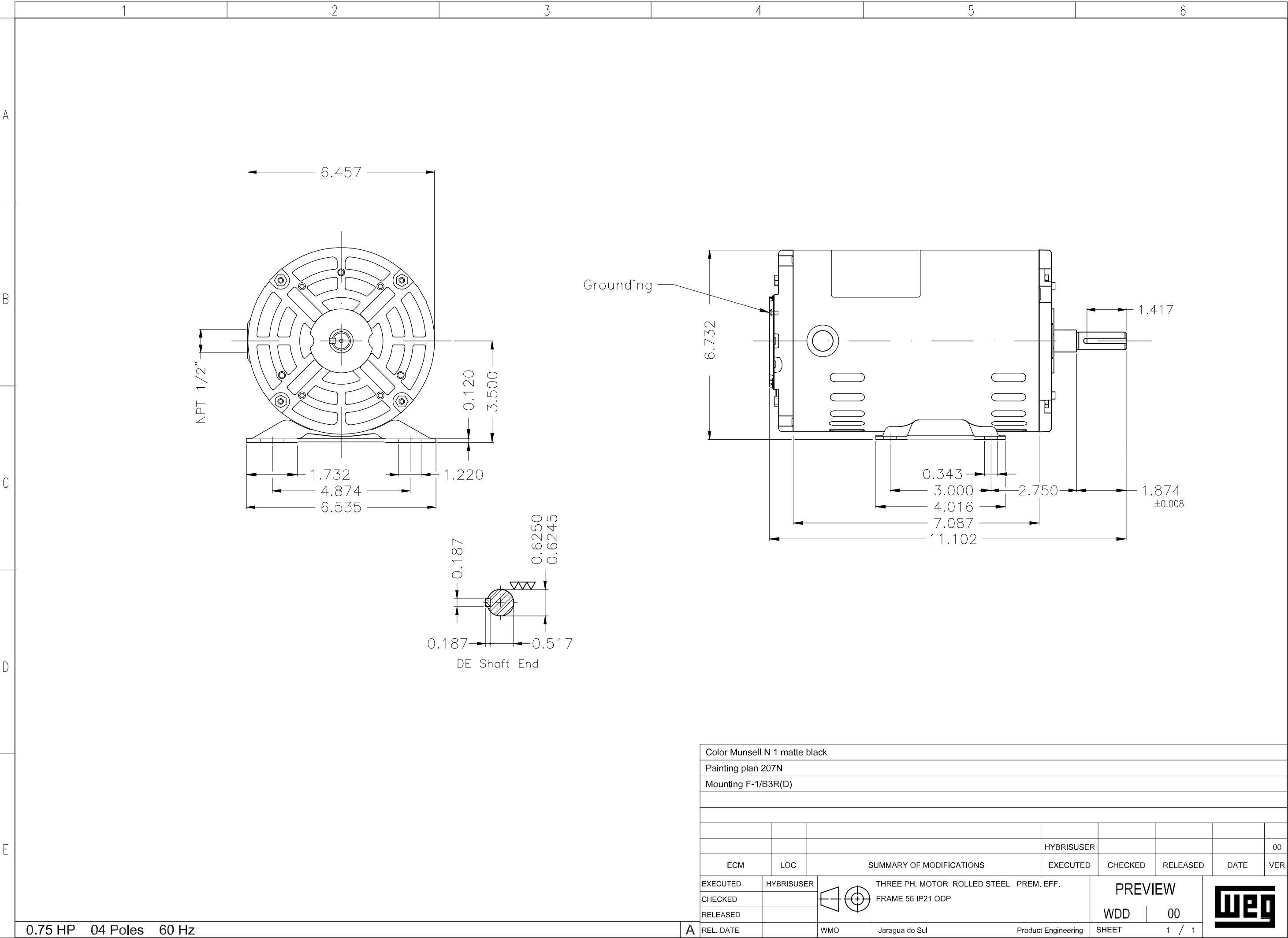


Performance : 220/415 V 50 Hz 4P

Rated current : 2.43/1.29 A
 LRC : 6.4
 Rated torque : 0.374 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 290 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0030 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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A

B

C

D

E

0.75 HP 04 Poles 60 Hz

A

REL. DATE

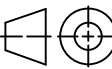

WMO

Jaragua do Sul

Product Engineering

SHEET

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