

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Premium Efficiency Three-Phase Product code : 14156820

Frame	: 56C	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: CCW
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 16.6 kg
Design	: A	Moment of inertia (J)	: 0.0049 kgm ²

Output [HP]	2	2	2
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	4.84/2.42	5.88/2.94	5.26/2.79
L. R. Amperes [A]	43.1/21.5	40.6/20.3	40.0/21.2
LRC [A]	8.9x(Code K)	6.9x(Code H)	7.6x(Code J)
No load current [A]	1.83/0.917	1.81/0.906	1.84/0.978
Rated speed [RPM]	3510	2890	2900
Slip [%]	2.50	3.67	3.33
Rated torque [kgfm]	0.414	0.502	0.501
Locked rotor torque [%]	220	180	200
Breakdown torque [%]	330	250	280
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	25s (cold) 14s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%		
	50%	84.0	83.5
	75%	85.5	84.0
	100%	85.5	84.3
Power Factor	25%		
	50%	0.77	0.80
	75%	0.86	0.88
	100%	0.91	0.92

Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads	
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 36 kgf
Lubrication interval	: - -	Max. compression	: 53 kgf
Lubricant amount	: - -		
Lubricant type	: Mobil Polyrex EM		

Notes
USABLE @208V 5.35A SF 1.00 SFA 5.35A

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.

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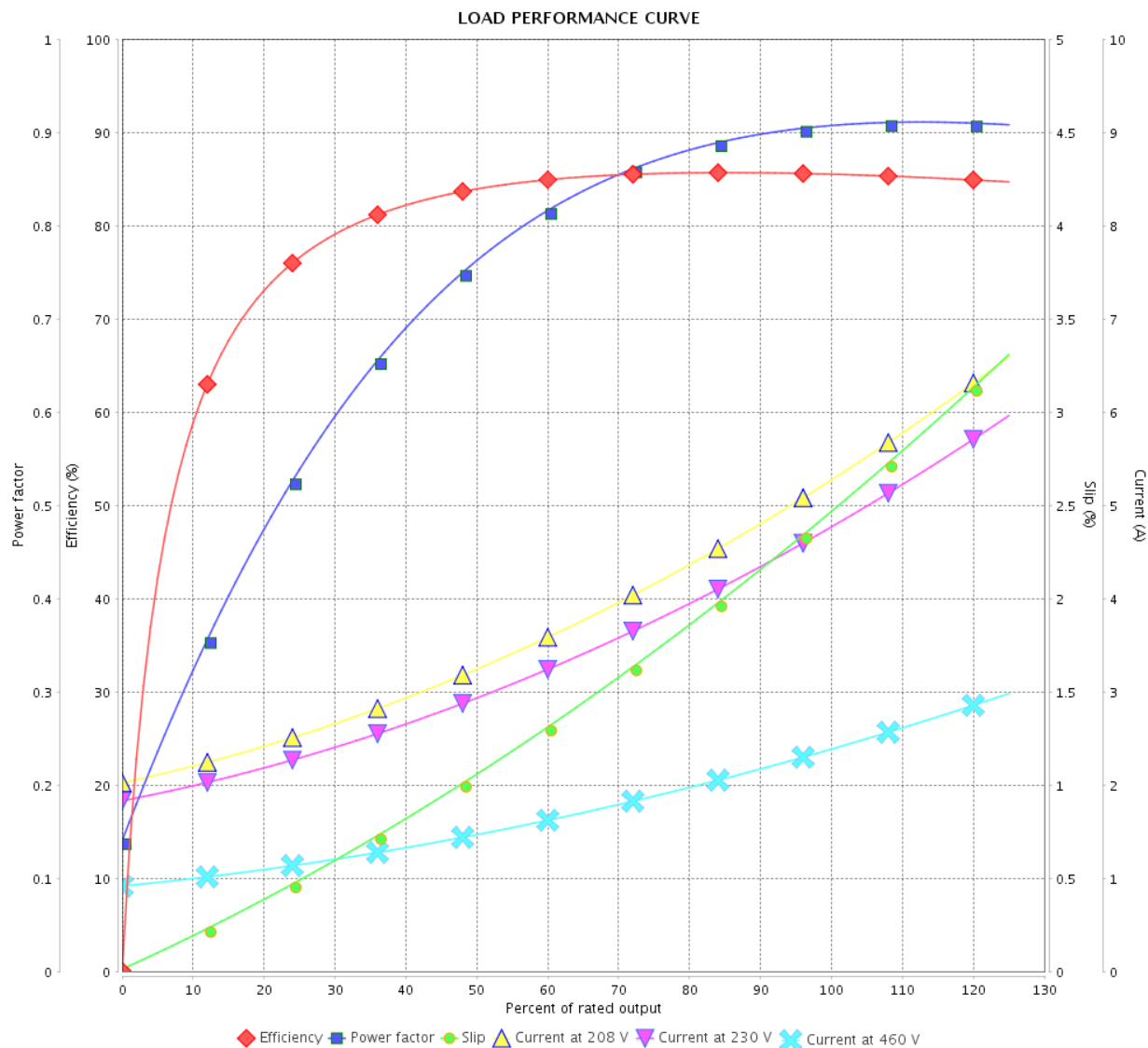
Three Phase Induction Motor - Squirrel Cage



Customer :

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Efficiency Three-Phase

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Performance : 230/460 V 60 Hz 2P

Rated current : 4.84/2.42 A
 LRC : 8.9
 Rated torque : 0.414 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 330 %
 Rated speed : 3510 rpm

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

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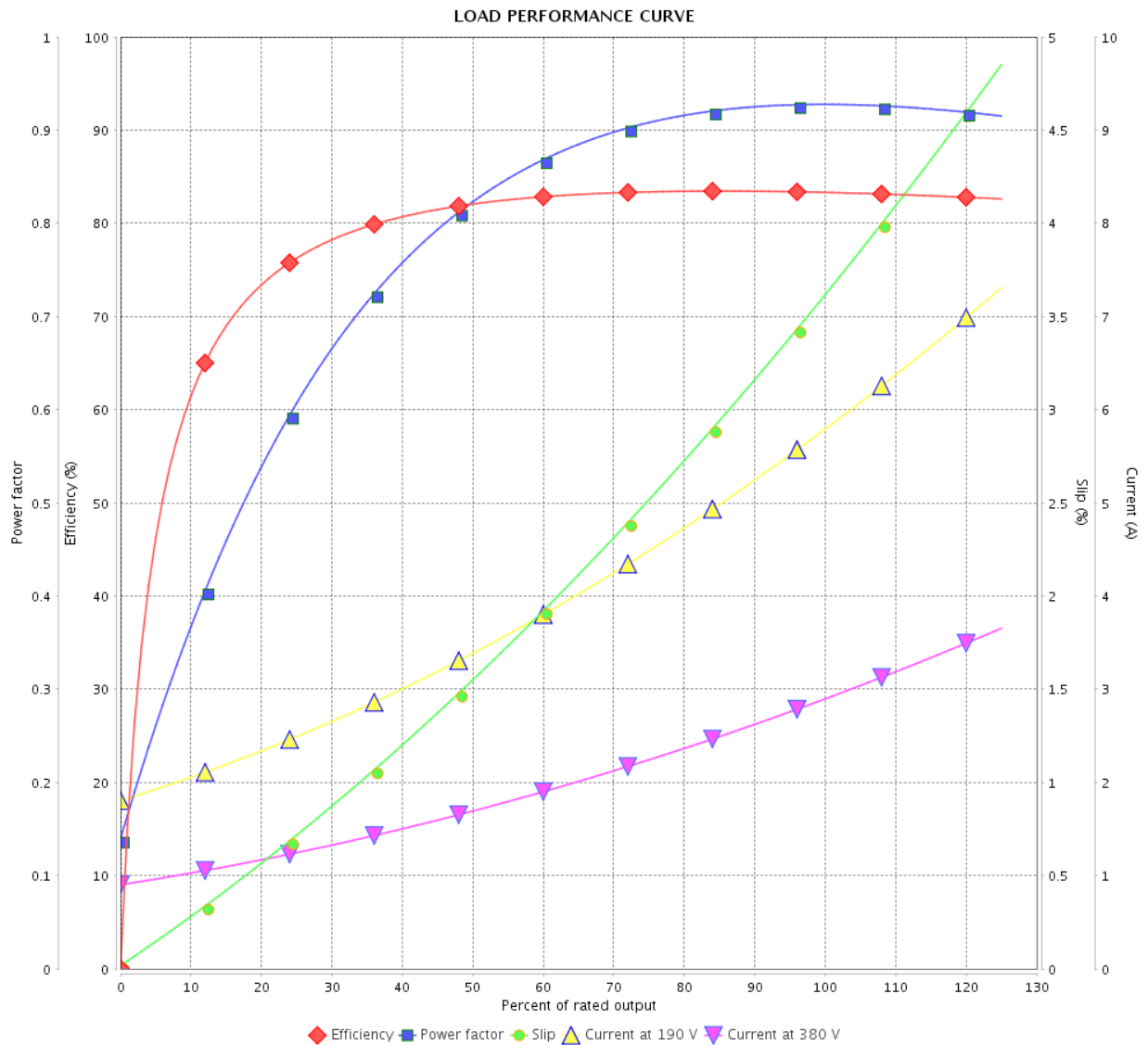
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 190/380 V 50 Hz 2P

Rated current : 5.88/2.94 A
LRC : 6.9
Rated torque : 0.502 kgfm
Locked rotor torque : 180 %
Breakdown torque : 250 %
Rated speed : 2890 rpm

Moment of inertia (J) : 0.0049 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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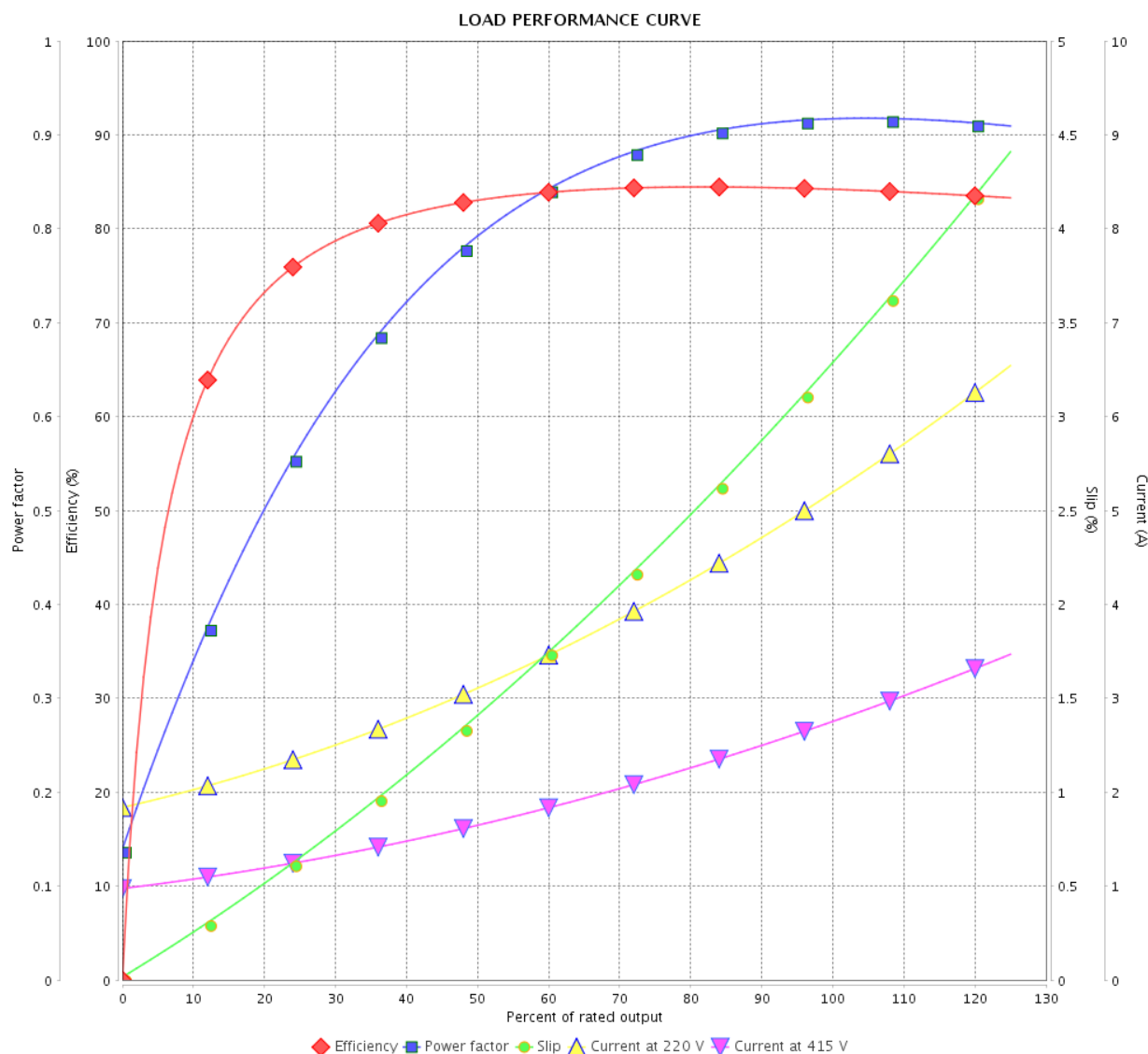
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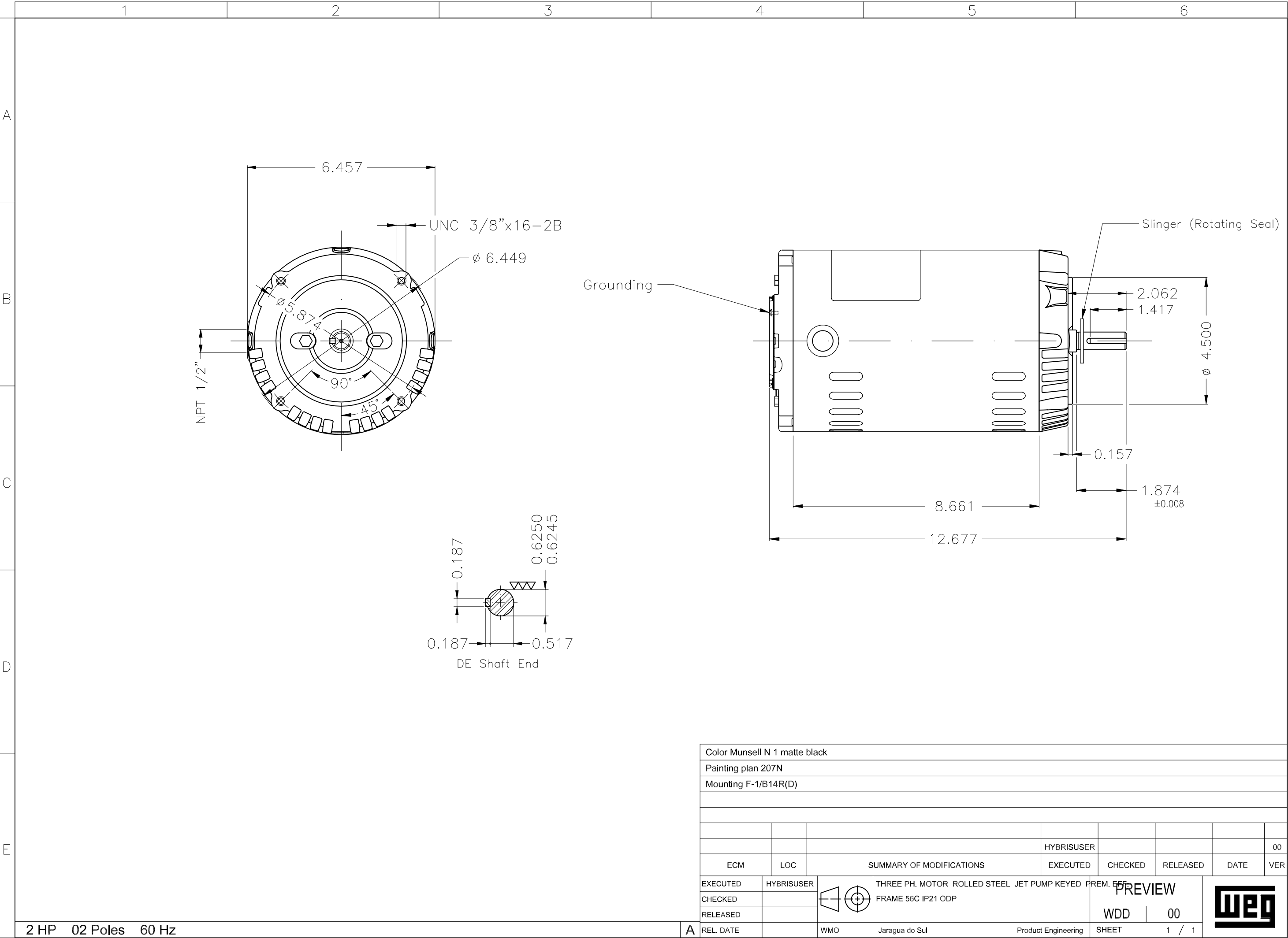


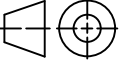

Performance : 220/415 V 50 Hz 2P

Rated current : 5.26/2.79 A
LRC : 7.6
Rated torque : 0.501 kgfm
Locked rotor torque : 200 %
Breakdown torque : 280 %
Rated speed : 2900 rpm

Moment of inertia (J) : 0.0049 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B14R(D)									
				HYBRISUSER					00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR ROLLED STEEL JET PUMP KEYED PREM. EFF.			PREVIEW			
CHECKED			FRAME 56C IP21 ODP						
RELEASED									
REL. DATE			WMO Jaragua do Sul Product Engineering			SHEET 1 / 1			