

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Premium Efficiency Three-Phase Product code : 14902007

Frame	: W56J	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: W-6
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 ²	: 7.6 kg
		Moment of inertia (J)	: 0.0008 kgm ²

Output [HP]	0.75	0.75	0.75
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190-220/380	415
Rated current [A]	2.61-2.36/1.18	2.76-2.38/1.38	1.40
L. R. Amperes [A]	20.4-18.4/9.20	17.7-15.3/8.83	9.66
LRC [A]	7.8x(Code L)	6.4x(Code J)	6.9x(Code L)
No load current [A]	1.38-1.60/0.800	1.50-1.30/0.750	1.00
Rated speed [RPM]	3450	2820	2850
Slip [%]	4.17	6.00	5.00
Rated torque [kgfm]	0.158	0.193	0.191
Locked rotor torque [%]	370	300	370
Breakdown torque [%]	400	280	330
Service factor		1.50	1.50
Temperature rise	80 K	80 K	80 K
Locked rotor time	32s (cold) 18s (hot)	32s (cold) 18s (hot)	27s (cold) 15s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%		
	50%	68.0	71.0
	75%	72.0	74.0
	100%	76.8	74.0
Power Factor	25%		
	50%	0.57	0.62
	75%	0.69	0.75
	100%	0.76	0.82

Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads	
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 16 kgf
Lubrication interval	: - -	Max. compression	: 24 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			

Page 1 / 4
Revision

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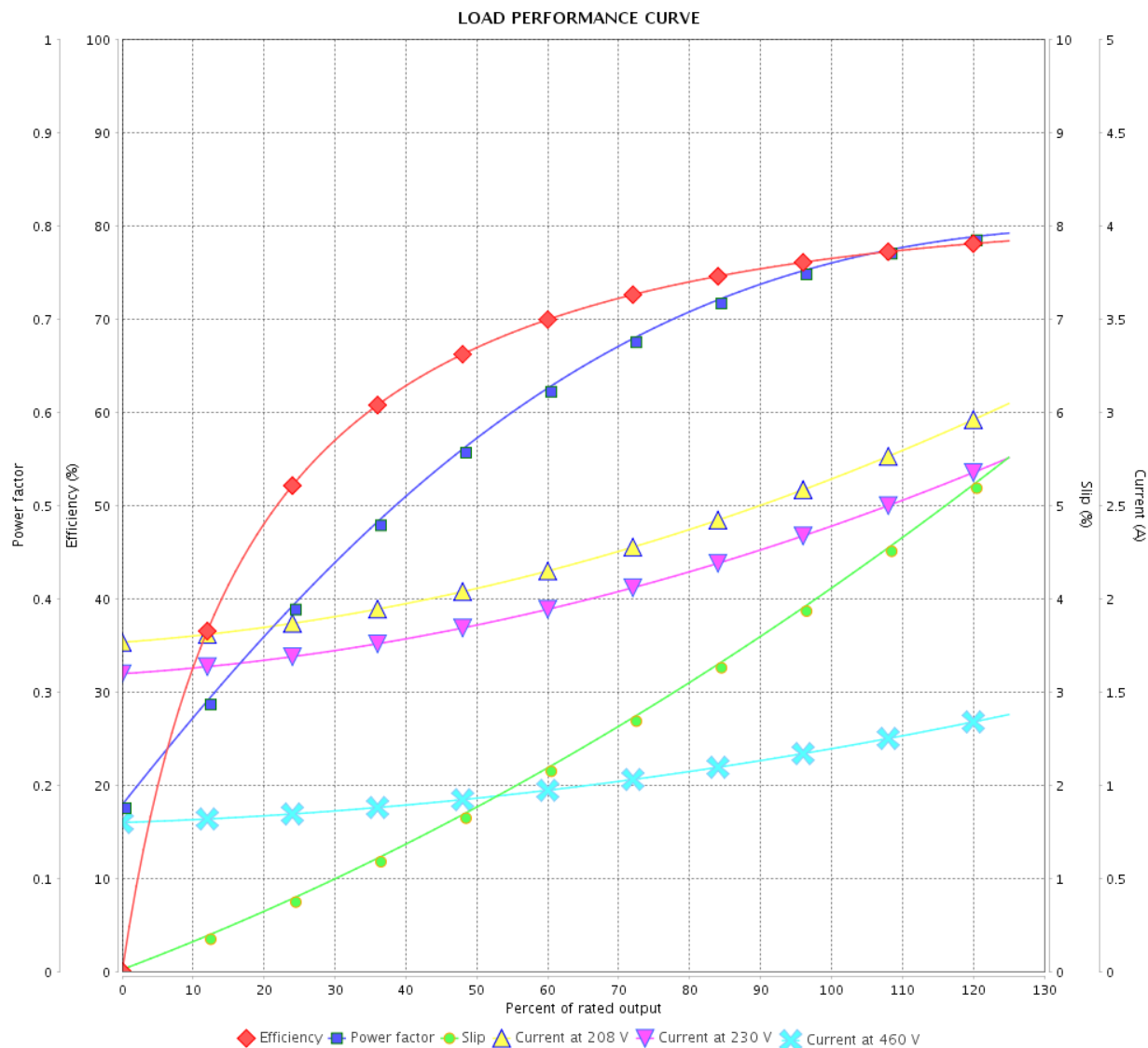
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Premium
Efficiency Three-Phase

Product code : 14902007



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

Rated current : 2.61-2.36/1.18 A
LRC : 7.8
Rated torque : 0.158 kgfm
Locked rotor torque : 370 %
Breakdown torque : 400 %
Rated speed : 3450 rpm

Moment of inertia (J) : 0.0008 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor :
Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 4Revision		
Checked by				
Date	17/05/2022			

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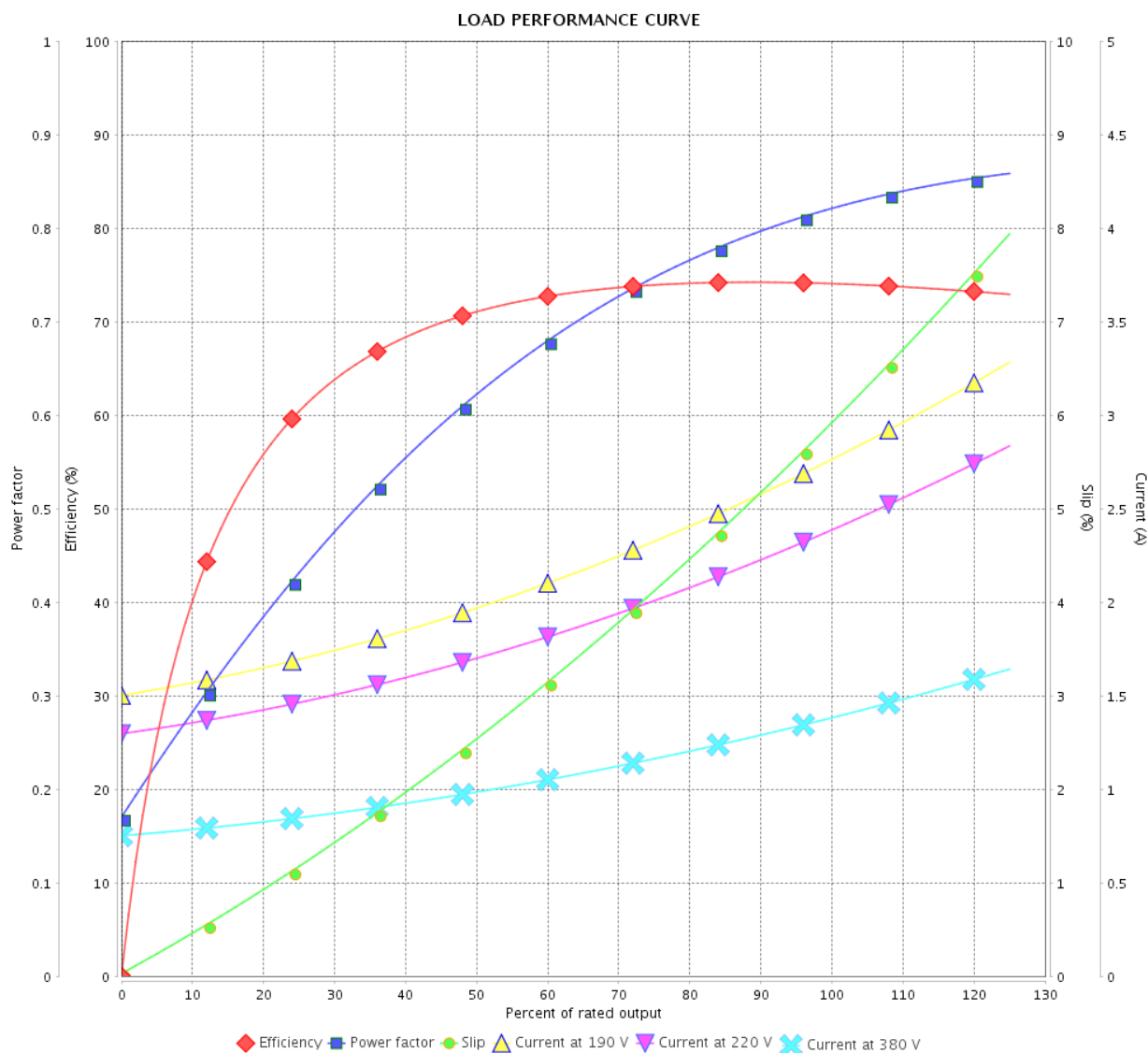
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 190-220/380 V 50 Hz 2P

Rated current : 2.76-2.38/1.38 A
 LRC : 6.4
 Rated torque : 0.193 kgfm
 Locked rotor torque : 300 %
 Breakdown torque : 280 %
 Rated speed : 2820 rpm

Moment of inertia (J) : 0.0008 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.50
 Temperature rise : 80 K

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

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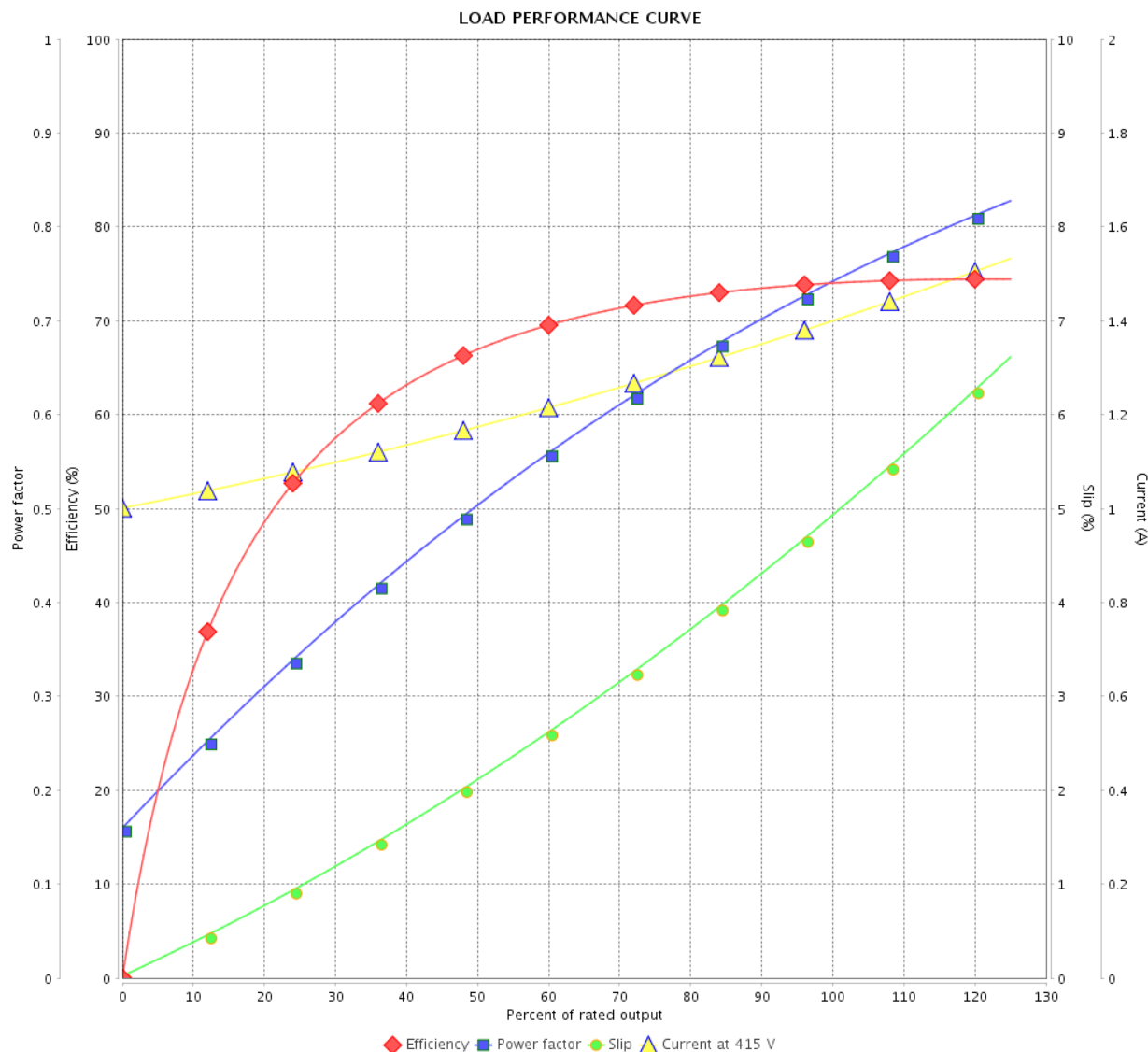
Three Phase Induction Motor - Squirrel Cage



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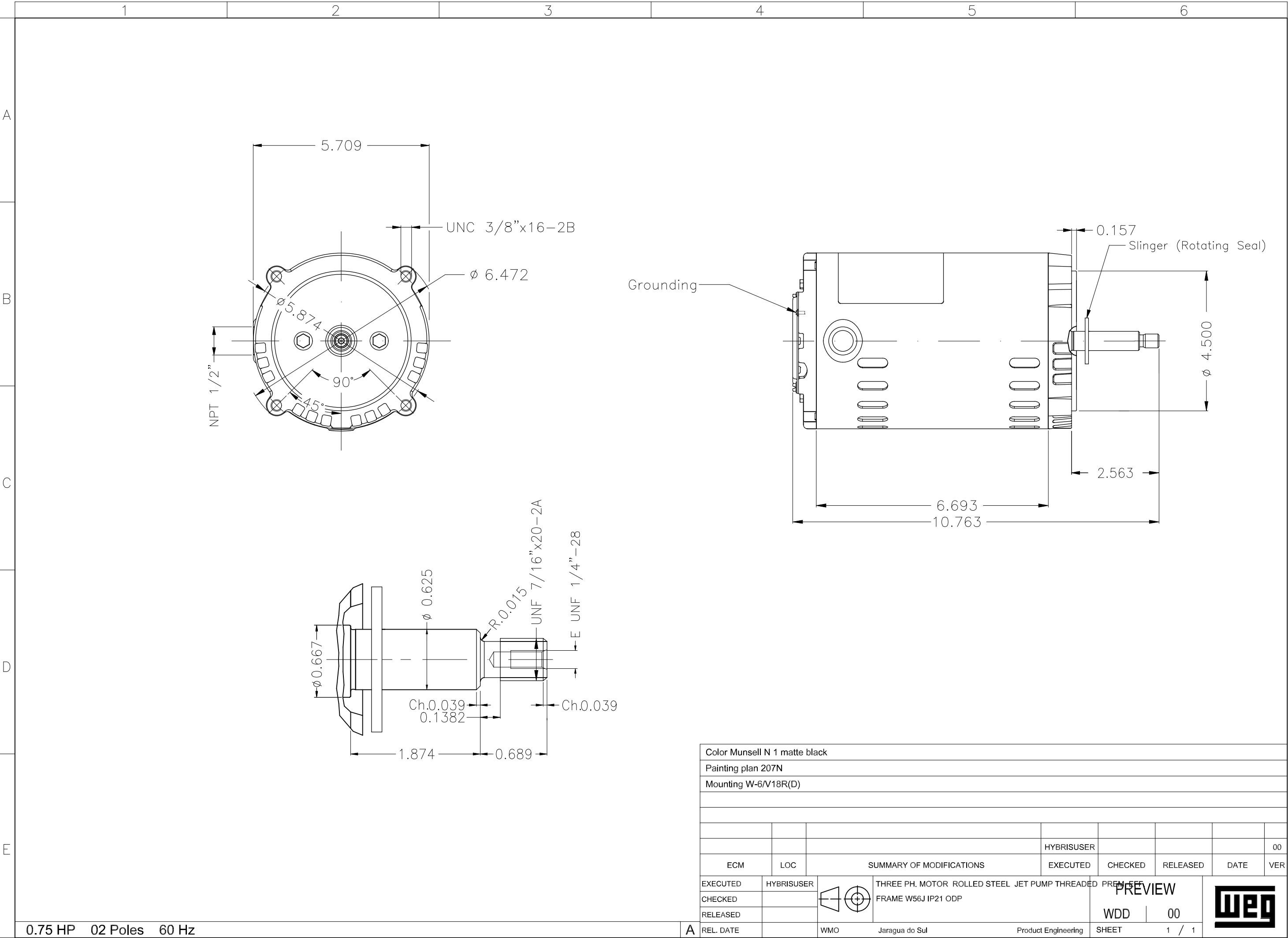


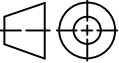

Performance : 415 V 50 Hz 2P

Rated current : 1.40 A
LRC : 6.9
Rated torque : 0.191 kgfm
Locked rotor torque : 370 %
Breakdown torque : 330 %
Rated speed : 2850 rpm

Moment of inertia (J) : 0.0008 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.50
Temperature rise : 80 K

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Checked by				
Date	17/05/2022			



Color Munsell N 1 matte black										
Painting plan 207N										
Mounting W-6/V18R(D)										
						HYBRISUSER			00	
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE VER	
EXECUTED	HYBRISUSER	 THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED PREM EFF FRAME W56J IP21 ODP				PREVIEW WDD 00				
CHECKED										
RELEASED										
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1				