

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Three-Phase Product code : 14937733

Frame	: W56C	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	: 8.8 kg
		Moment of inertia (J)	: 0.0010 kgm ²

Output [HP]	1	1	1
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	3.26/1.63	3.60/1.80	3.40/1.80
L. R. Amperes [A]	27.1/13.5	25.2/12.6	24.8/13.1
LRC [A]	8.3x(Code M)	7.0x(Code K)	7.3x(Code L)
No load current [A]	2.00/1.00	2.00/1.00	2.26/1.20
Rated speed [RPM]	3450	2820	2840
Slip [%]	4.17	6.00	5.33
Rated torque [kgfm]	0.210	0.257	0.256
Locked rotor torque [%]	400	340	380
Breakdown torque [%]	409	320	360
Service factor		1.40	1.40
Temperature rise	80 K	80 K	80 K
Locked rotor time	23s (cold) 13s (hot)	23s (cold) 13s (hot)	19s (cold) 11s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%		
	50%	70.0	71.0
	75%	75.5	75.0
	100%	77.0	77.0
Power Factor	25%		
	50%	0.55	0.54
	75%	0.68	0.68
	100%	0.75	0.78

	<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	: 6203 2RS	6202 2RS	Foundation loads
Sealing	: Without	Without	Max. traction : 25 kgf
	Bearing Seal	Bearing Seal	Max. compression : 34 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 3.60A SF 1.00 SFA 3.60A

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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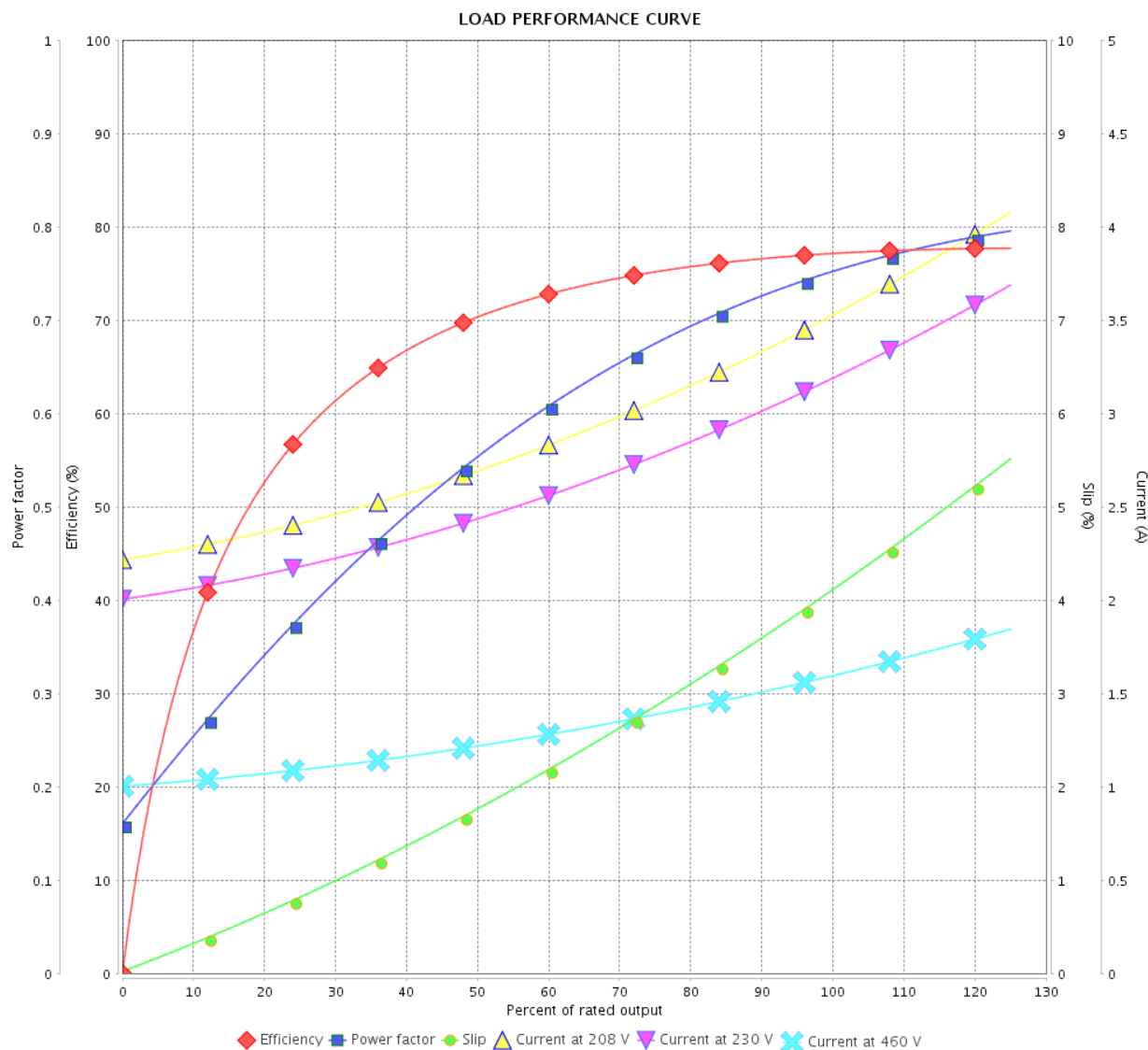
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Performance : 230/460 V 60 Hz 2P

Rated current : 3.26/1.63 A
 LRC : 8.3
 Rated torque : 0.210 kgfm
 Locked rotor torque : 400 %
 Breakdown torque : 409 %
 Rated speed : 3450 rpm

Moment of inertia (J) : 0.0010 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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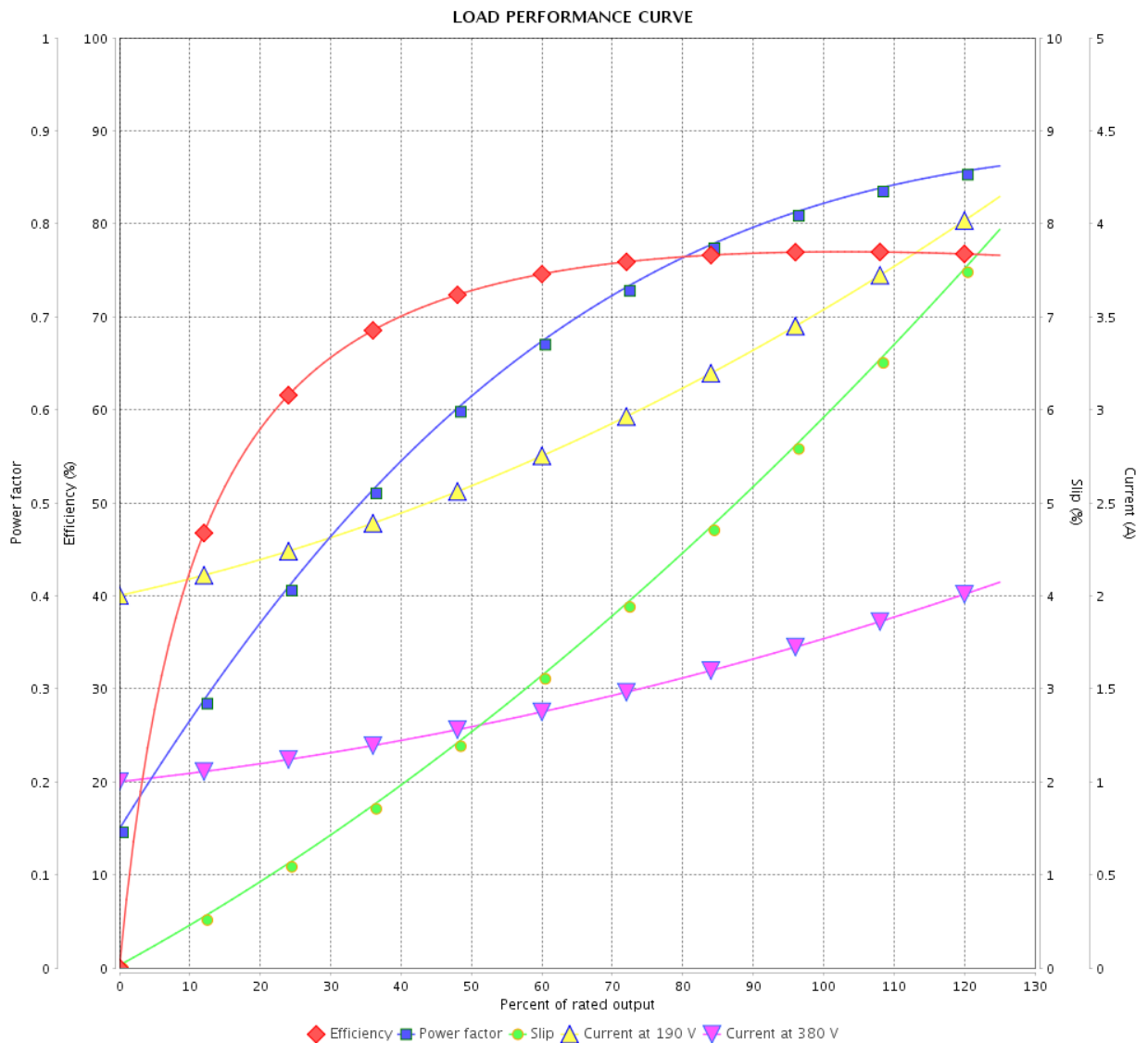
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Performance : 190/380 V 50 Hz 2P

Rated current : 3.60/1.80 A
 LRC : 7.0
 Rated torque : 0.257 kgfm
 Locked rotor torque : 340 %
 Breakdown torque : 320 %
 Rated speed : 2820 rpm

Moment of inertia (J) : 0.0010 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.40
 Temperature rise : 80 K

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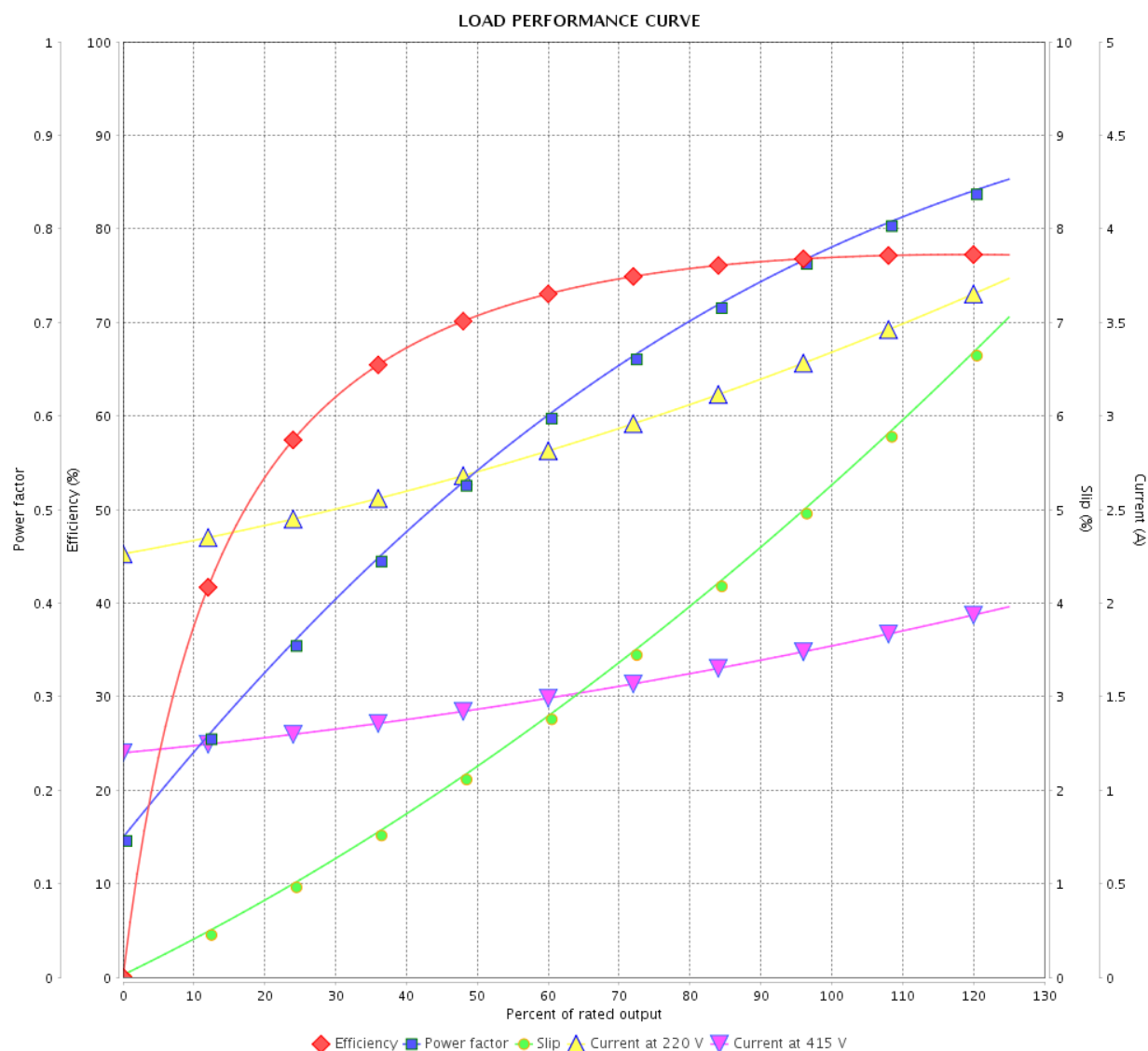
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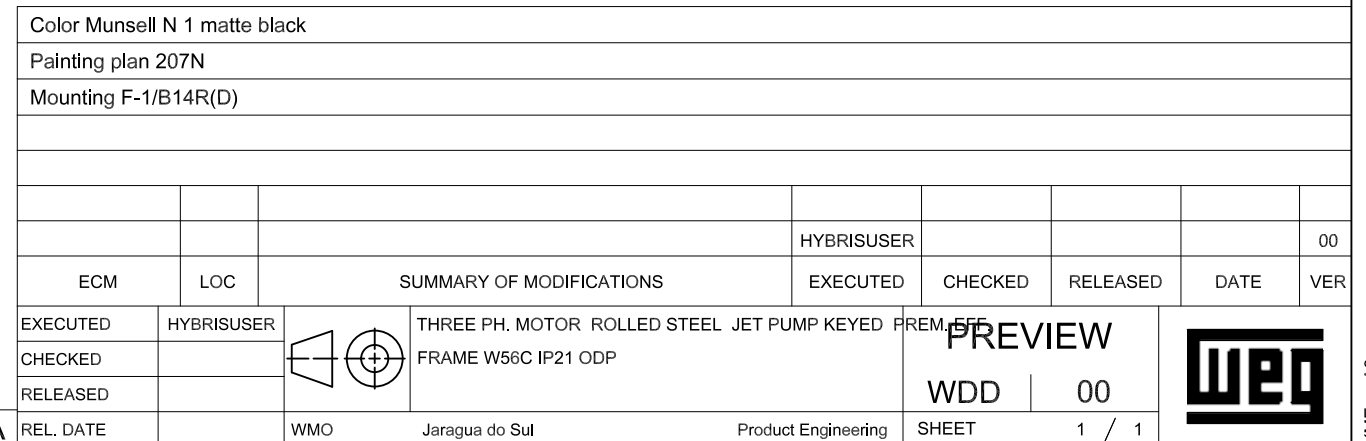
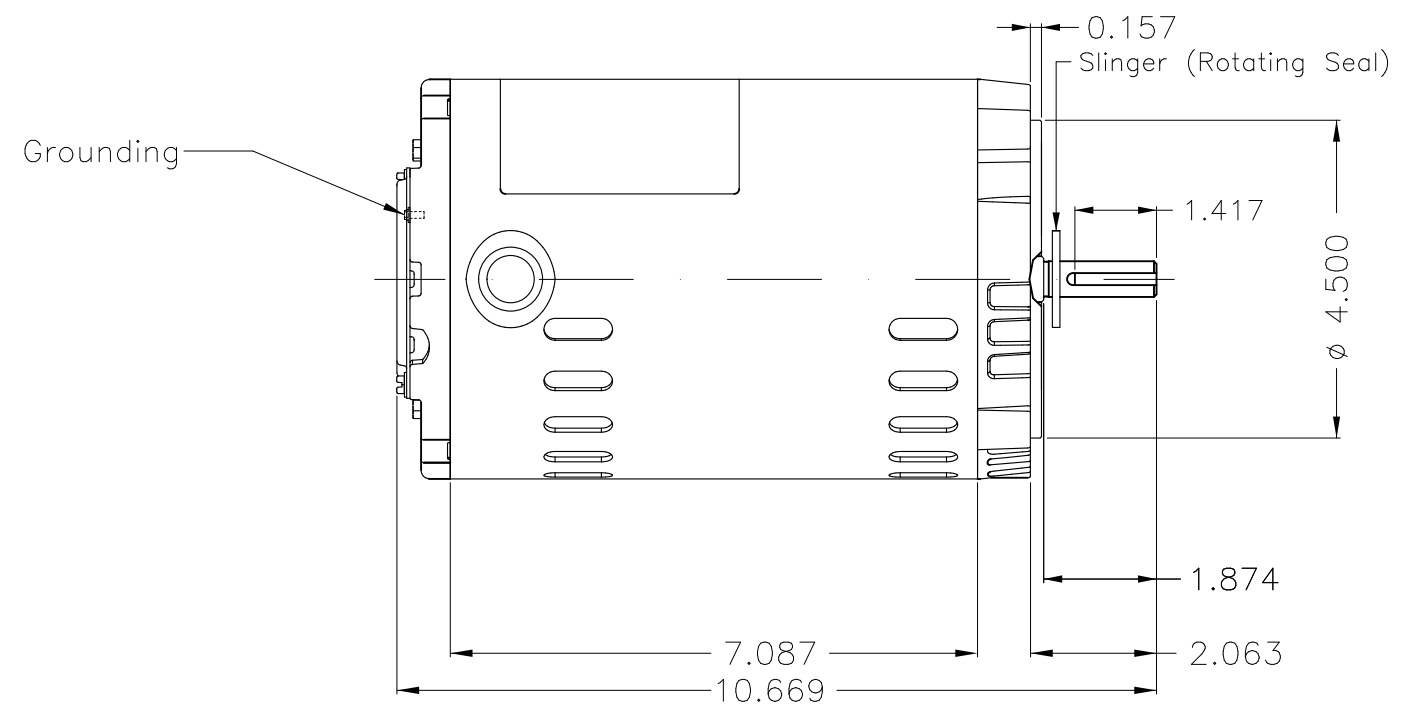


Performance : 220/415 V 50 Hz 2P

Rated current : 3.40/1.80 A
 LRC : 7.3
 Rated torque : 0.256 kgfm
 Locked rotor torque : 380 %
 Breakdown torque : 360 %
 Rated speed : 2840 rpm

Moment of inertia (J) : 0.0010 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.40
 Temperature rise : 80 K

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