

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 14338081

Frame	: W56C	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	: 7.6 kg
		Moment of inertia (J)	: 0.0008 kgm ²

Output [HP]	1	1	1
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	2.94/1.47	3.52-3.04/1.76	1.72
L. R. Amperes [A]	20.6/10.3	17.6-15.2/8.80	9.80
LRC [A]	7.0x(Code K)	5.0x(Code G)	5.7x(Code H)
No load current [A]	1.76/0.879	1.70-1.47/0.849	1.17
Rated speed [RPM]	3420	2715	2770
Slip [%]	5.00	9.50	7.67
Rated torque [kgfm]	0.212	0.267	0.262
Locked rotor torque [%]	310	220	280
Breakdown torque [%]	330	210	260
Service factor		1.25	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	23s (cold) 13s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%		
	50%	74.0	70.0
	75%	75.5	73.0
	100%	77.0	73.0
Power Factor	25%		
	50%	0.61	0.59
	75%	0.74	0.74
	100%	0.83	0.83

Bearing type	: Drive end	Non drive end	Foundation loads
	: 6203 ZZ	6202 ZZ	
Sealing	: Without	Without	Max. traction : 18 kgf
	: Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	Max. compression : 25 kgf
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 3.25A SF 1.00 SFA 3.25A

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		Page Revision 1 / 4		
Checked by				
Date	17/05/2022			

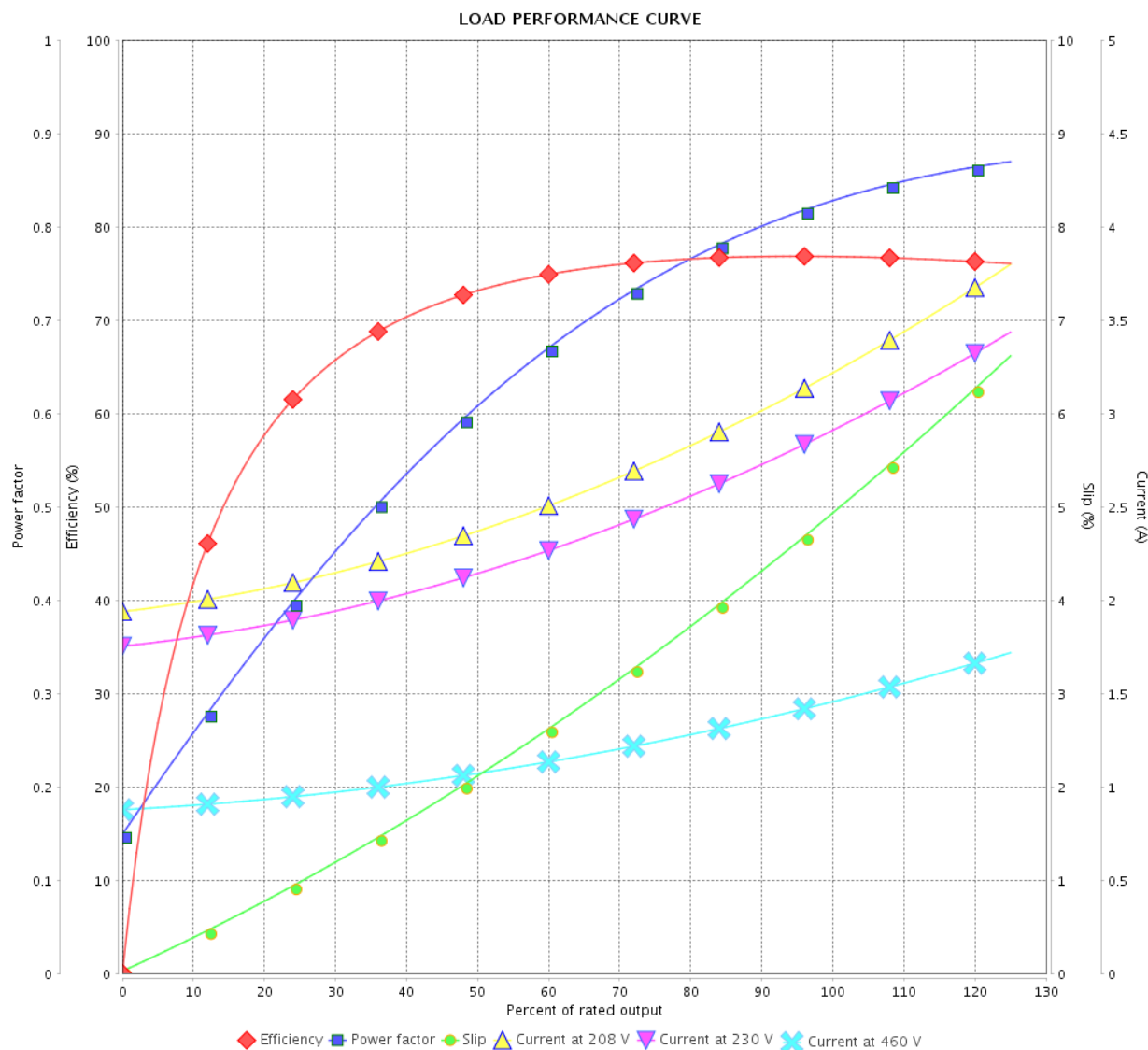
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Performance : 230/460 V 60 Hz 2P

Rated current : 2.94/1.47 A
 LRC : 7.0
 Rated torque : 0.212 kgfm
 Locked rotor torque : 310 %
 Breakdown torque : 330 %
 Rated speed : 3420 rpm

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

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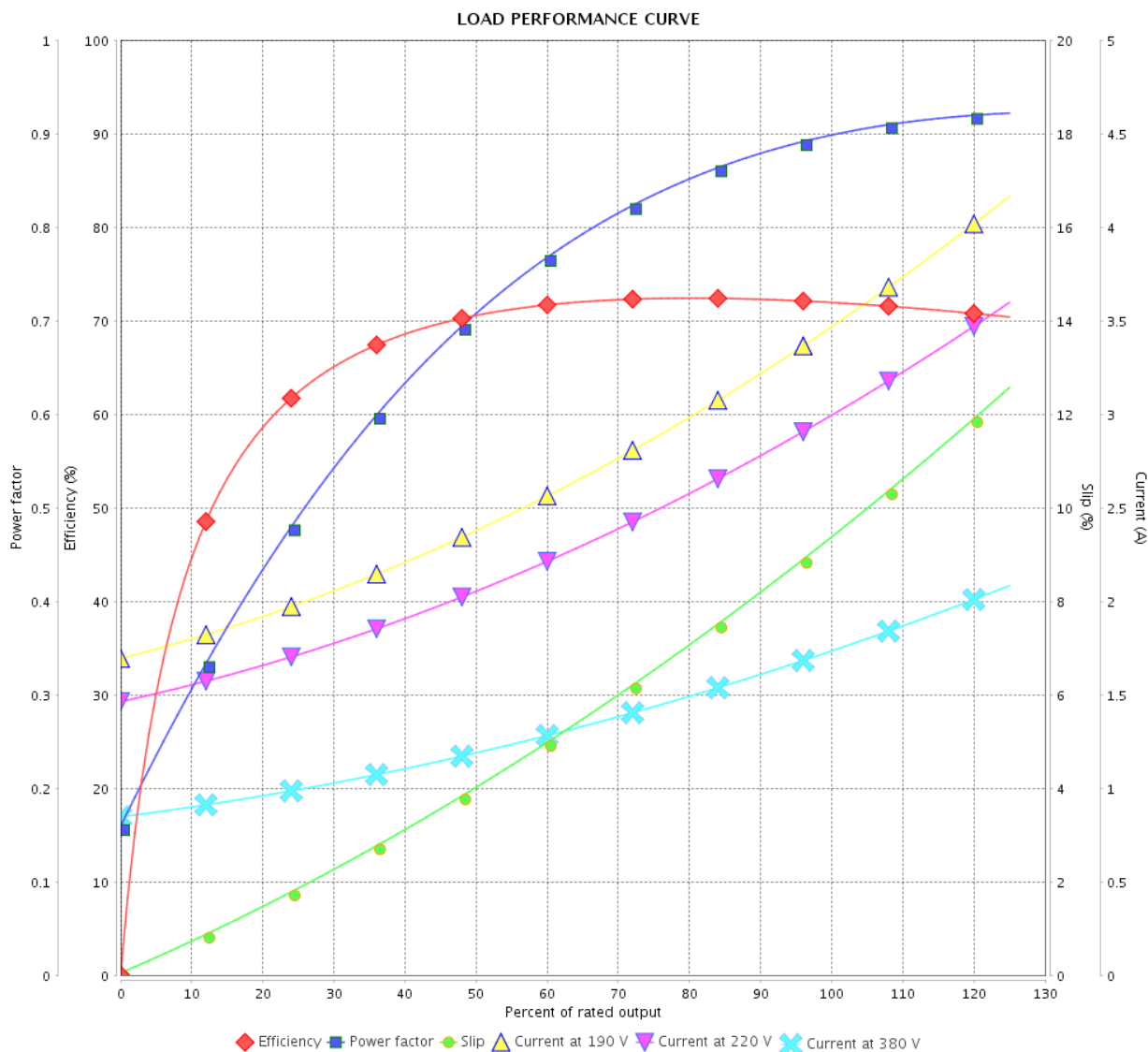
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Performance : 190-220/380 V 50 Hz 2P

Rated current : 3.52-3.04/1.76 A
 LRC : 5.0
 Rated torque : 0.267 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 210 %
 Rated speed : 2715 rpm

Moment of inertia (J) : 0.0008 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 105 K

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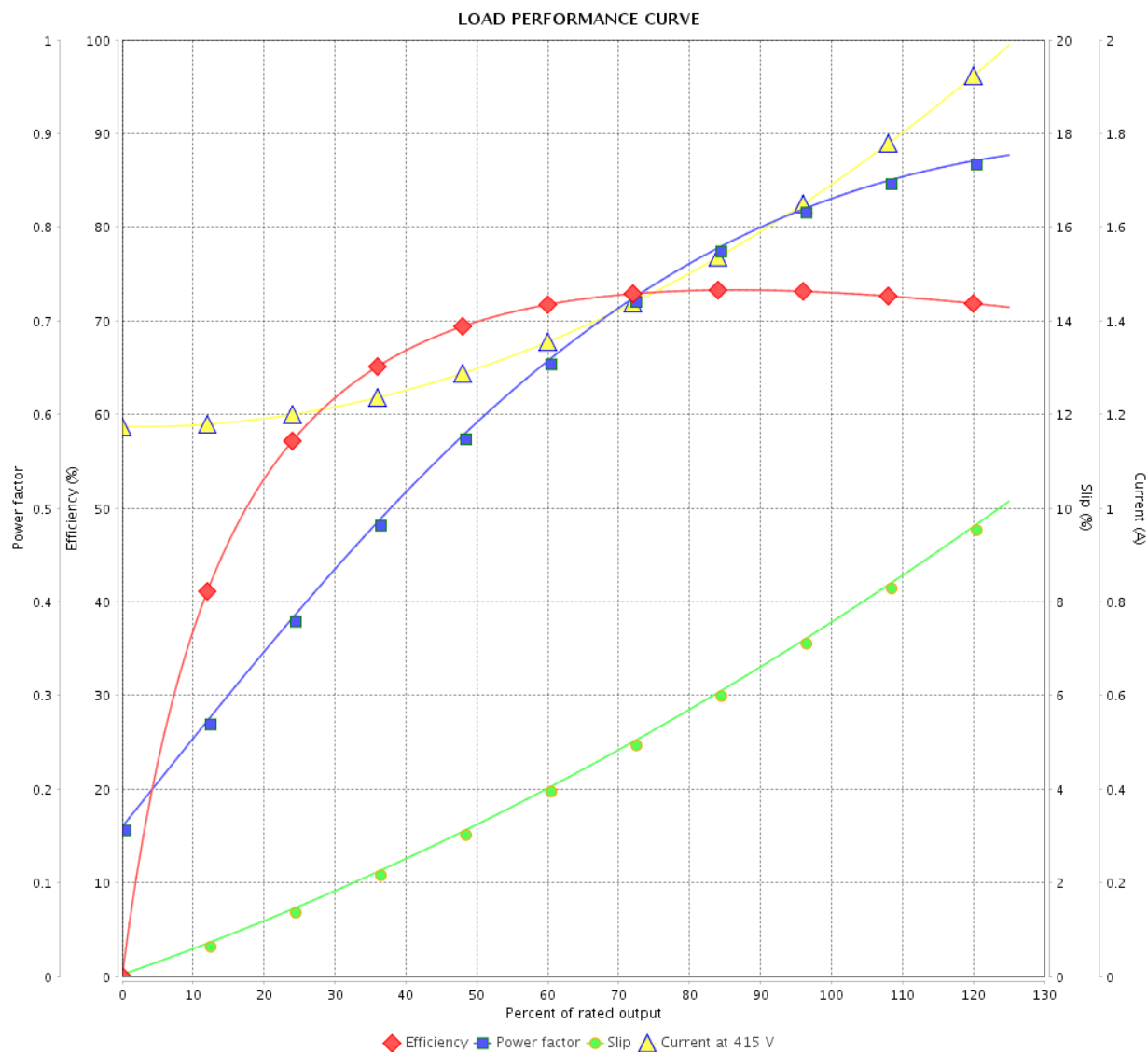
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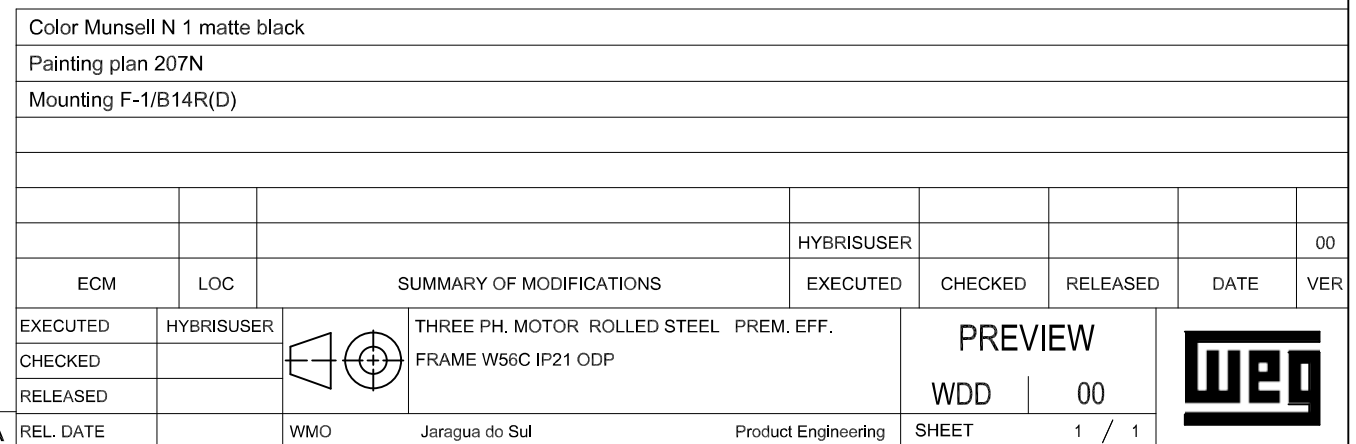
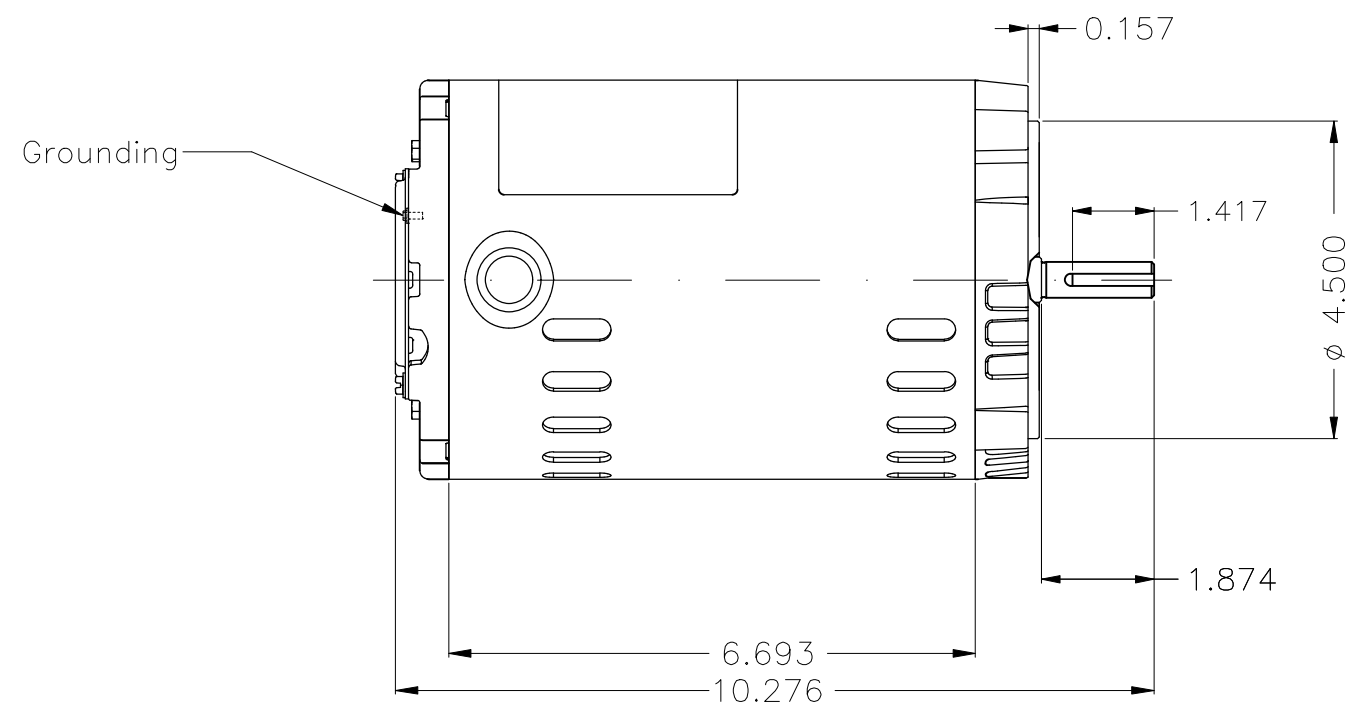


Performance : 415 V 50 Hz 2P

Rated current : 1.72 A
LRC : 5.7
Rated torque : 0.262 kgfm
Locked rotor torque : 280 %
Breakdown torque : 260 %
Rated speed : 2770 rpm

Moment of inertia (J) : 0.0008 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K

Rev.	Changes Summary	Performed	Checked	Date
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