

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13286642

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	: 10.1 kg
Design	: A	Moment of inertia (J)	: 0.0030 kgm ²

Output [HP]	1	1	1
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	3.60/1.80	3.84/1.92	3.90/2.07
L. R. Amperes [A]	23.8/11.9	19.6/9.79	20.7/11.0
LRC [A]	6.6x(Code L)	5.1x(Code H)	5.3x(Code J)
No load current [A]	2.80/1.40	2.80/1.40	3.77/2.00
Rated speed [RPM]	1750	1425	1440
Slip [%]	2.78	5.00	4.00
Rated torque [kgfm]	0.415	0.509	0.504
Locked rotor torque [%]	250	160	200
Breakdown torque [%]	290	210	250
Service factor		1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	18s (cold) 10s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	68.0	70.6
	75%	74.0	74.4
	100%	77.0	74.2
Power Factor	25%		
	50%	0.44	0.56
	75%	0.58	0.70
	100%	0.68	0.80

Bearing type	: Drive end	Non drive end	Foundation loads
	: 6204 ZZ	6202 ZZ	
Sealing	: Without	Without	Max. traction : 35 kgf
	: Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	Max. compression : 45 kgf
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 3.98A SF 1.00 SFA 3.98A

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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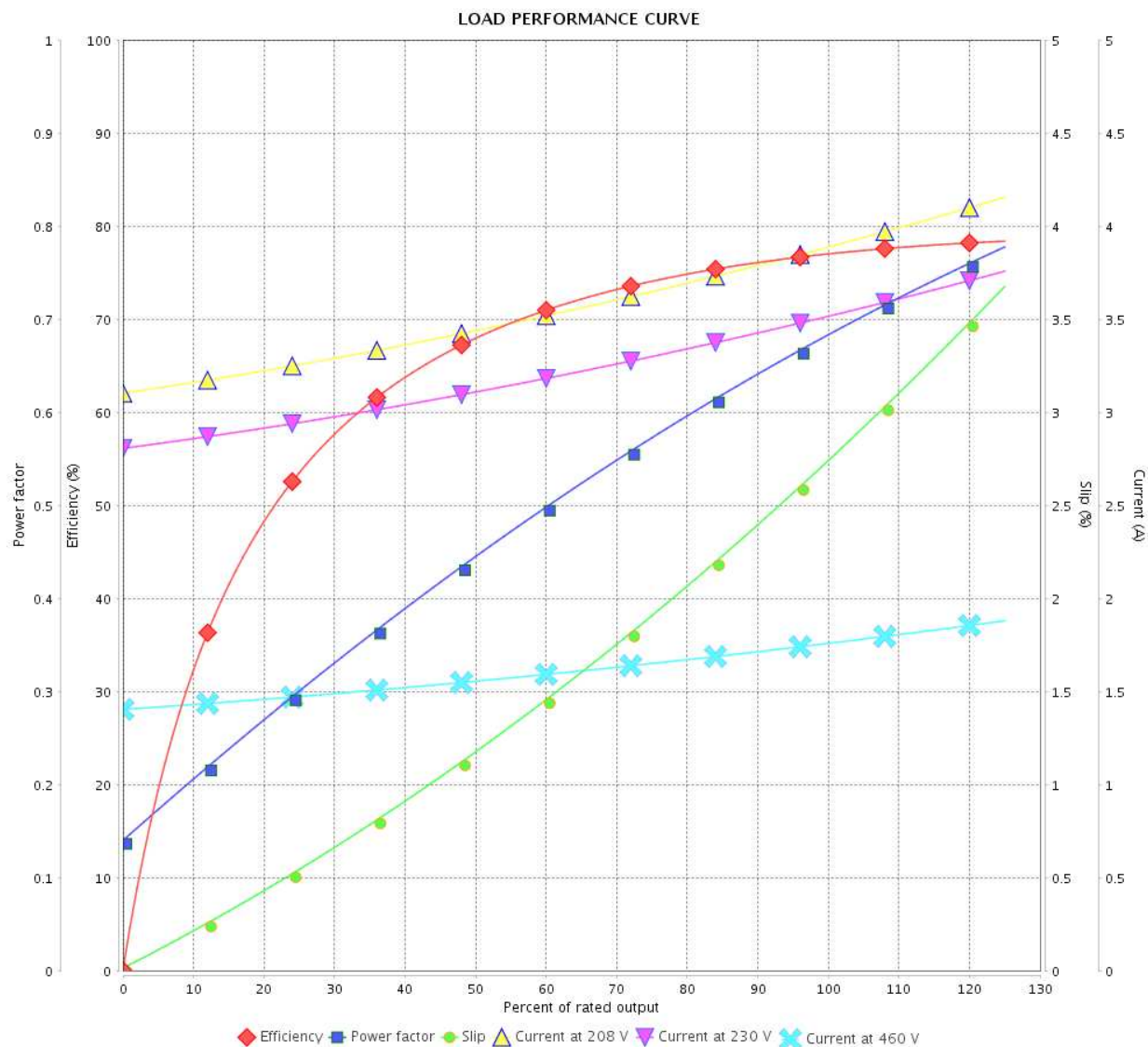
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13286642



Performance : 230/460 V 60 Hz 4P

Rated current : 3.60/1.80 A
 LRC : 6.6
 Rated torque : 0.415 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 290 %
 Rated speed : 1750 rpm

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

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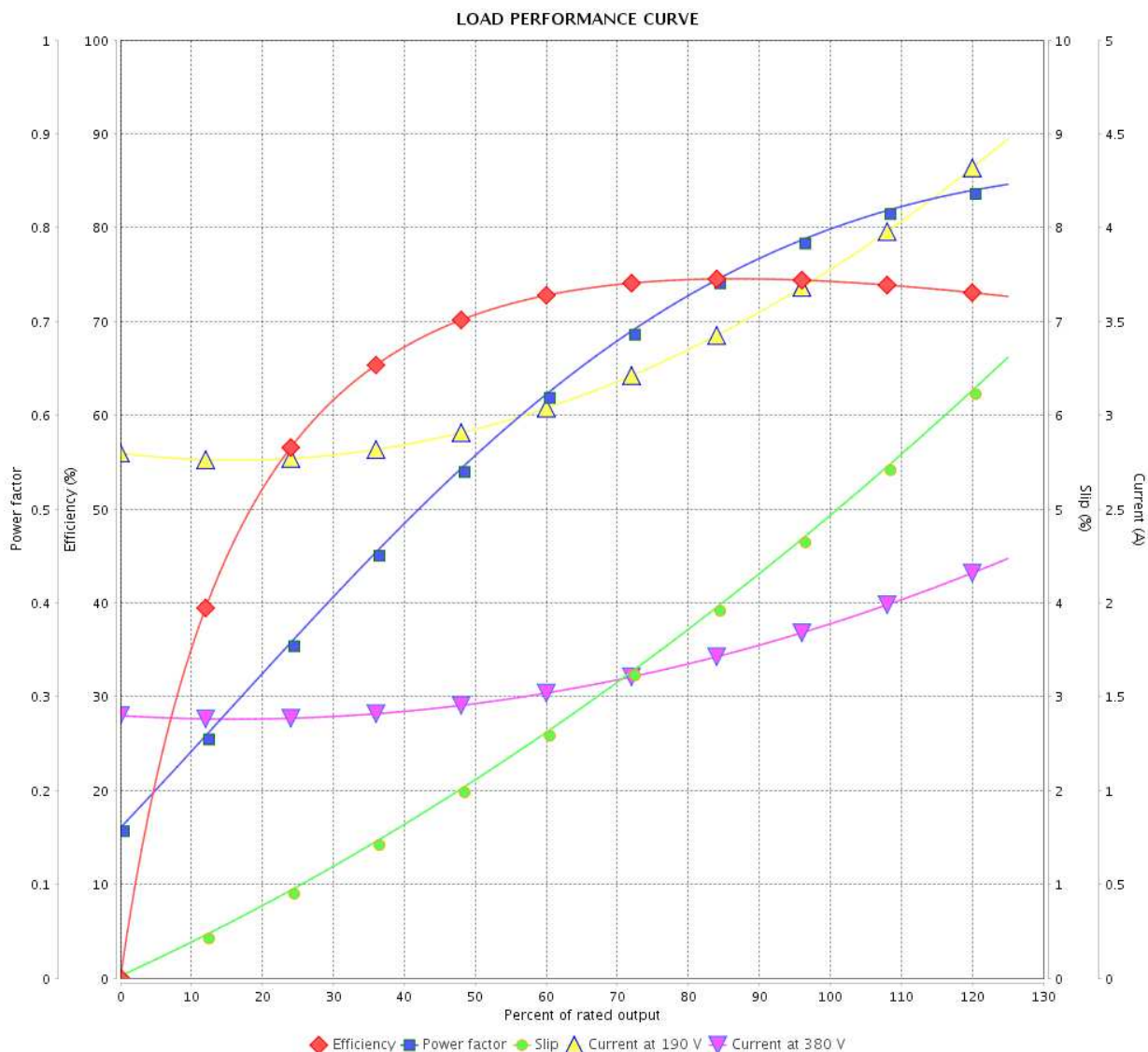
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 190/380 V 50 Hz 4P

Rated current : 3.84/1.92 A
 LRC : 5.1
 Rated torque : 0.509 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 210 %
 Rated speed : 1425 rpm

Moment of inertia (J) : 0.0030 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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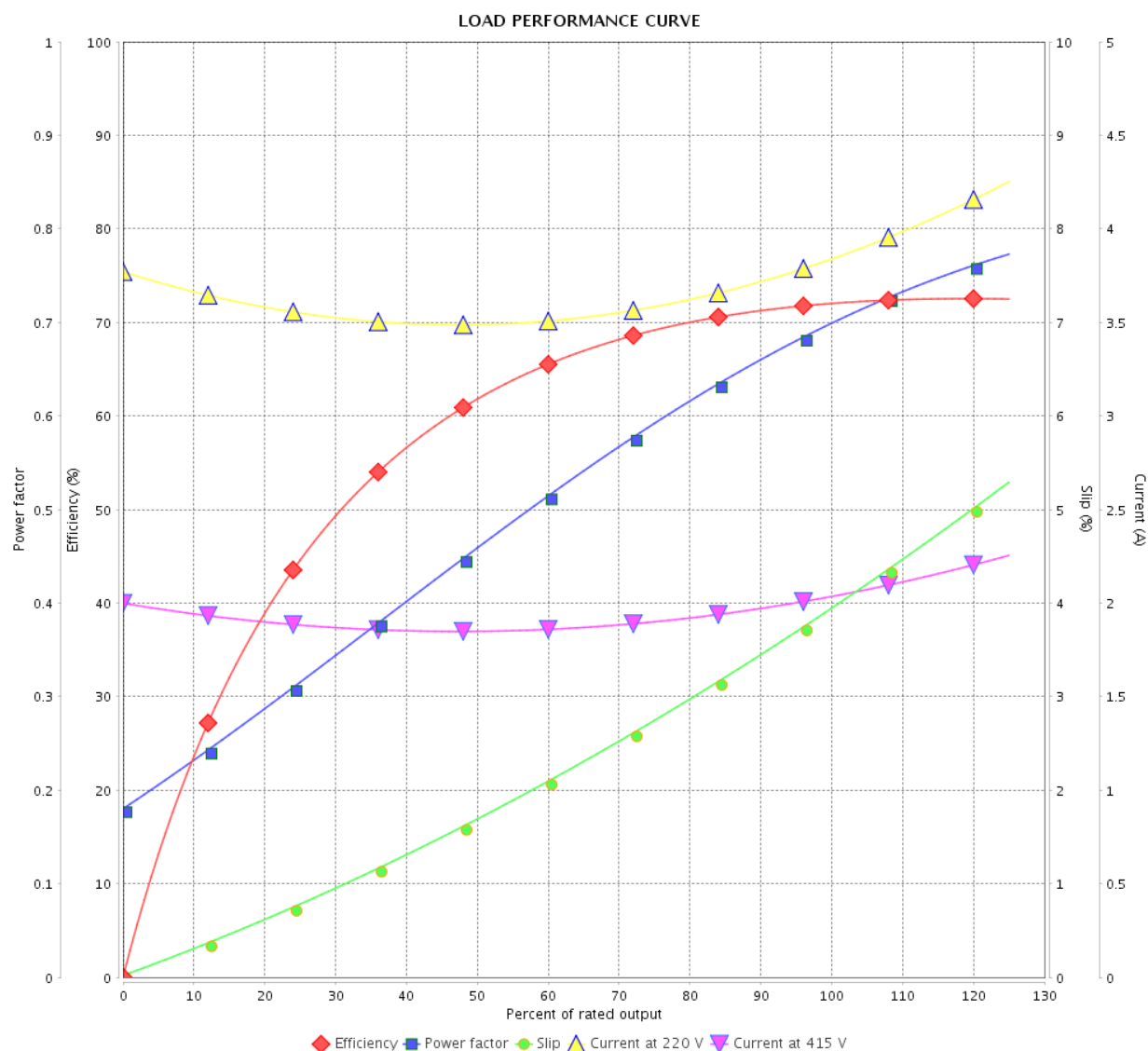
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13286642

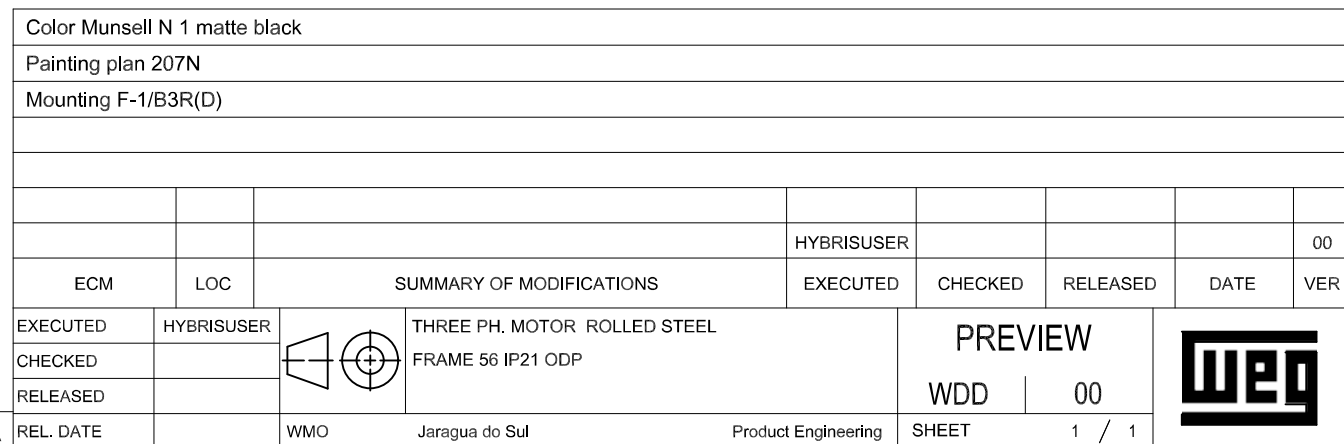
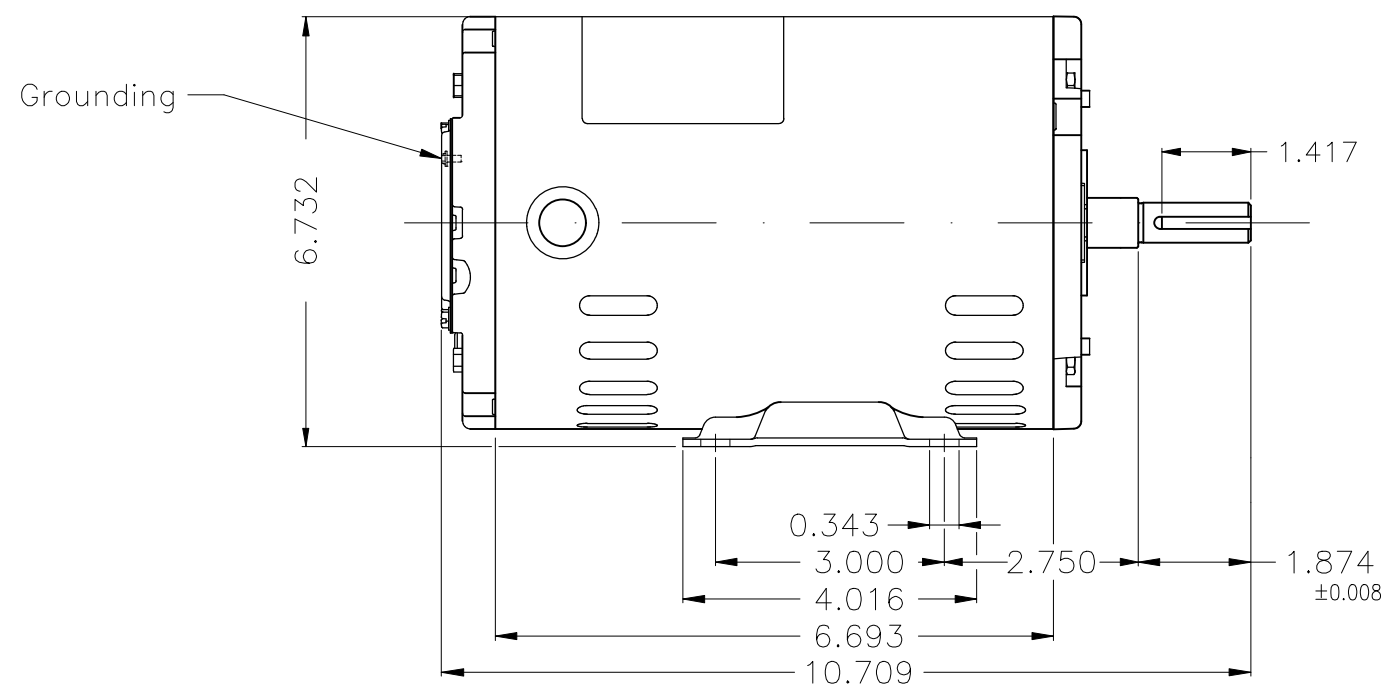


Performance : 220/415 V 50 Hz 4P

Rated current : 3.90/2.07 A
 LRC : 5.3
 Rated torque : 0.504 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.0030 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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