

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13737502

Frame	: 56H	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	: 20.3 kg
Design	: A	Moment of inertia (J)	: 0.0060 kgm ²

Output [HP]	3	2	2
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	7.94/3.97	6.96/3.48	6.75/3.58
L. R. Amperes [A]	60.3/30.2	55.0/27.5	58.1/30.8
LRC [A]	7.6x(Code K)	7.9x(Code L)	8.6x(Code M)
No load current [A]	4.20/2.10	4.19/2.10	4.88/2.59
Rated speed [RPM]	1735	1445	1455
Slip [%]	3.61	3.67	3.00
Rated torque [kgfm]	1.25	1.00	0.998
Locked rotor torque [%]	270	320	400
Breakdown torque [%]	300	370	450
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	21s (cold) 12s (hot)	30s (cold) 17s (hot)	25s (cold) 14s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	86.5	82.0
	75%	86.5	85.0
	100%	86.9	85.8
Power Factor	25%		
	50%	0.59	0.45
	75%	0.72	0.58
	100%	0.80	0.68

Bearing type	: Drive end	Non drive end	Foundation loads
	: 6204 ZZ	6202 ZZ	
Sealing	: Without	Without	Max. traction : 134 kgf
	: Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	Max. compression : 155 kgf
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 8.79A SF 1.00 SFA 8.79A

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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LOAD PERFORMANCE CURVE

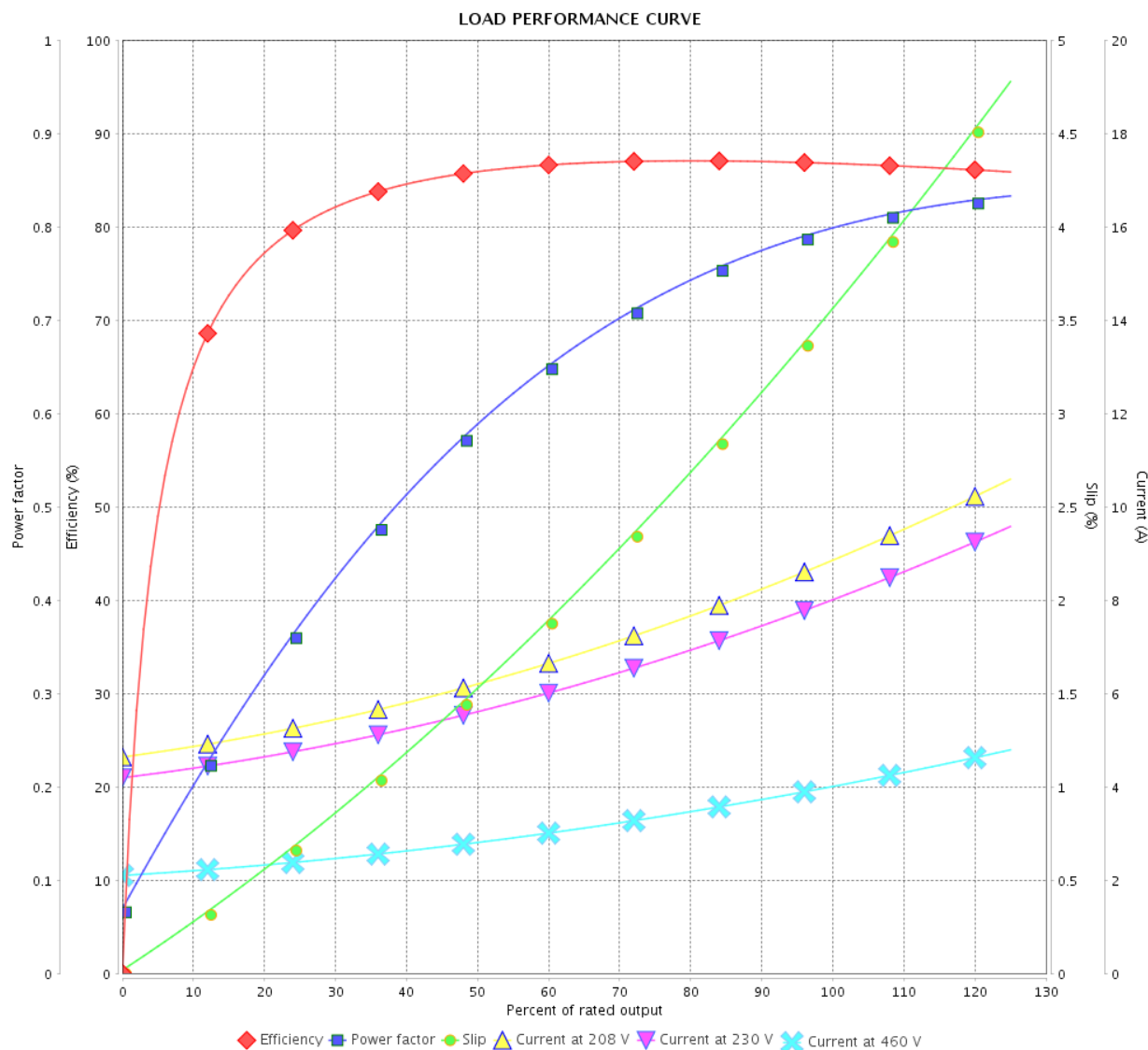
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 230/460 V 60 Hz 4P

Rated current : 7.94/3.97 A
 LRC : 7.6
 Rated torque : 1.25 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1735 rpm

Moment of inertia (J) : 0.0060 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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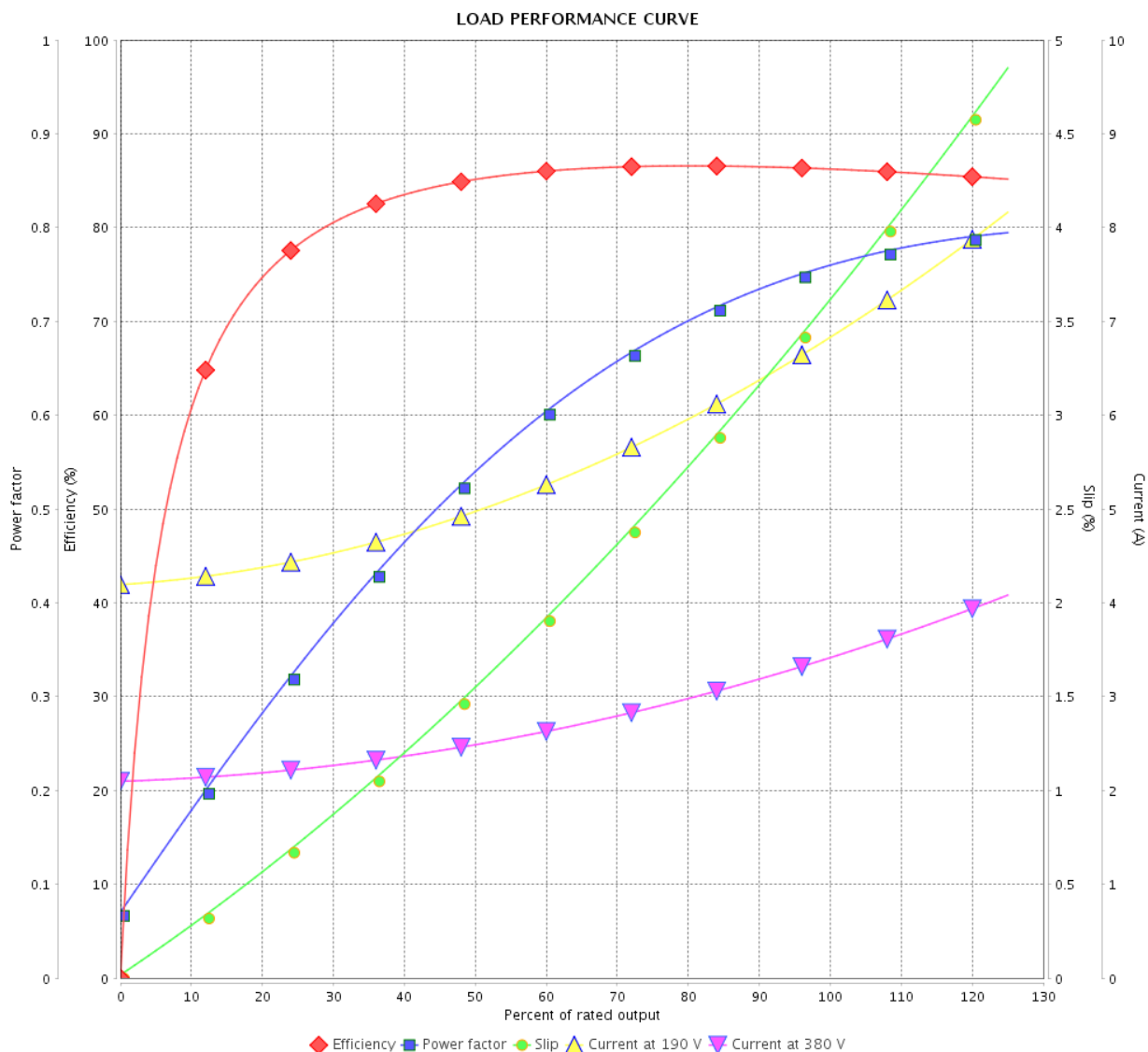
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 190/380 V 50 Hz 4P

Rated current : 6.96/3.48 A
 LRC : 7.9
 Rated torque : 1.00 kgfm
 Locked rotor torque : 320 %
 Breakdown torque : 370 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0060 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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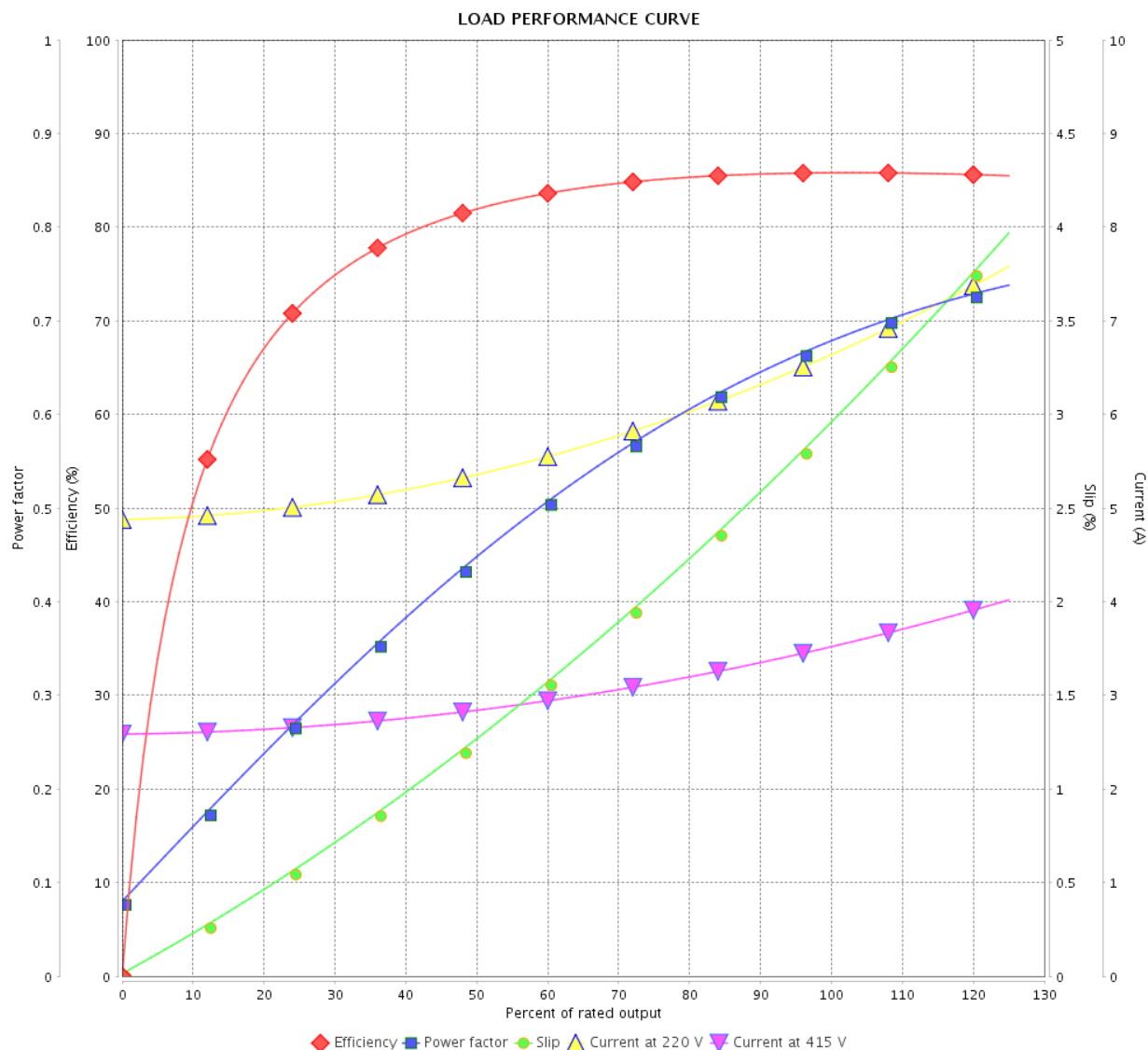
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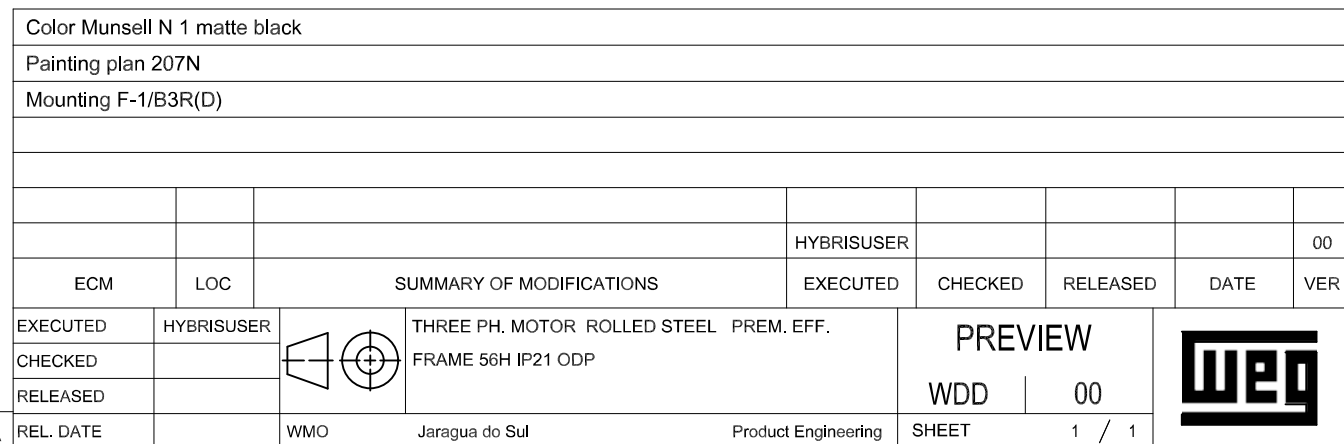
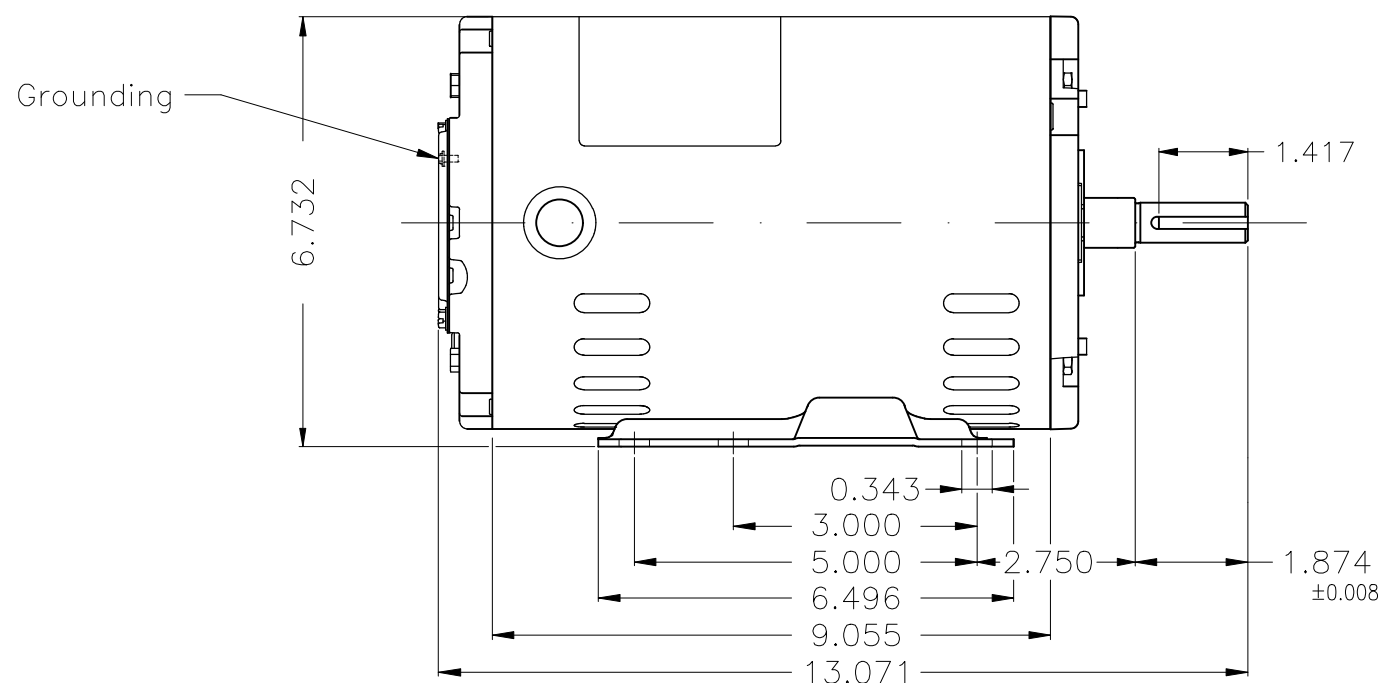


Performance : 220/415 V 50 Hz 4P

Rated current : 6.75/3.58 A
 LRC : 8.6
 Rated torque : 0.998 kgfm
 Locked rotor torque : 400 %
 Breakdown torque : 450 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0060 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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