

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13502188

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	: 7.9 kg
		Moment of inertia (J)	: 0.0019 kgm ²

Output [HP]	0.5	0.5	0.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190-220/380	415
Rated current [A]	2.16-1.95/0.977	1.99-1.72/0.997	1.06
L. R. Amperes [A]	13.0-11.7/5.86	9.77-8.44/4.89	5.41
LRC [A]	6.0x(Code L)	4.9x(Code H)	5.1x(Code J)
No load current [A]	1.38-1.60/0.800	1.48-1.27/0.738	0.968
Rated speed [RPM]	1755	1440	1450
Slip [%]	2.50	4.00	3.33
Rated torque [kgfm]	0.207	0.252	0.250
Locked rotor torque [%]	220	180	200
Breakdown torque [%]	290	220	270
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	41s (cold) 23s (hot)	48s (cold) 27s (hot)	37s (cold) 21s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	64.0	60.5
	75%	70.0	68.1
	100%	72.0	71.2
Power Factor	25%		
	50%	0.43	0.45
	75%	0.56	0.58
	100%	0.66	0.68

Bearing type	: Drive end	Non drive end	Foundation loads
	: 6203 ZZ	6202 ZZ	
Sealing	: Without	Without	Max. traction : 17 kgf
	: Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	Max. compression : 25 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.

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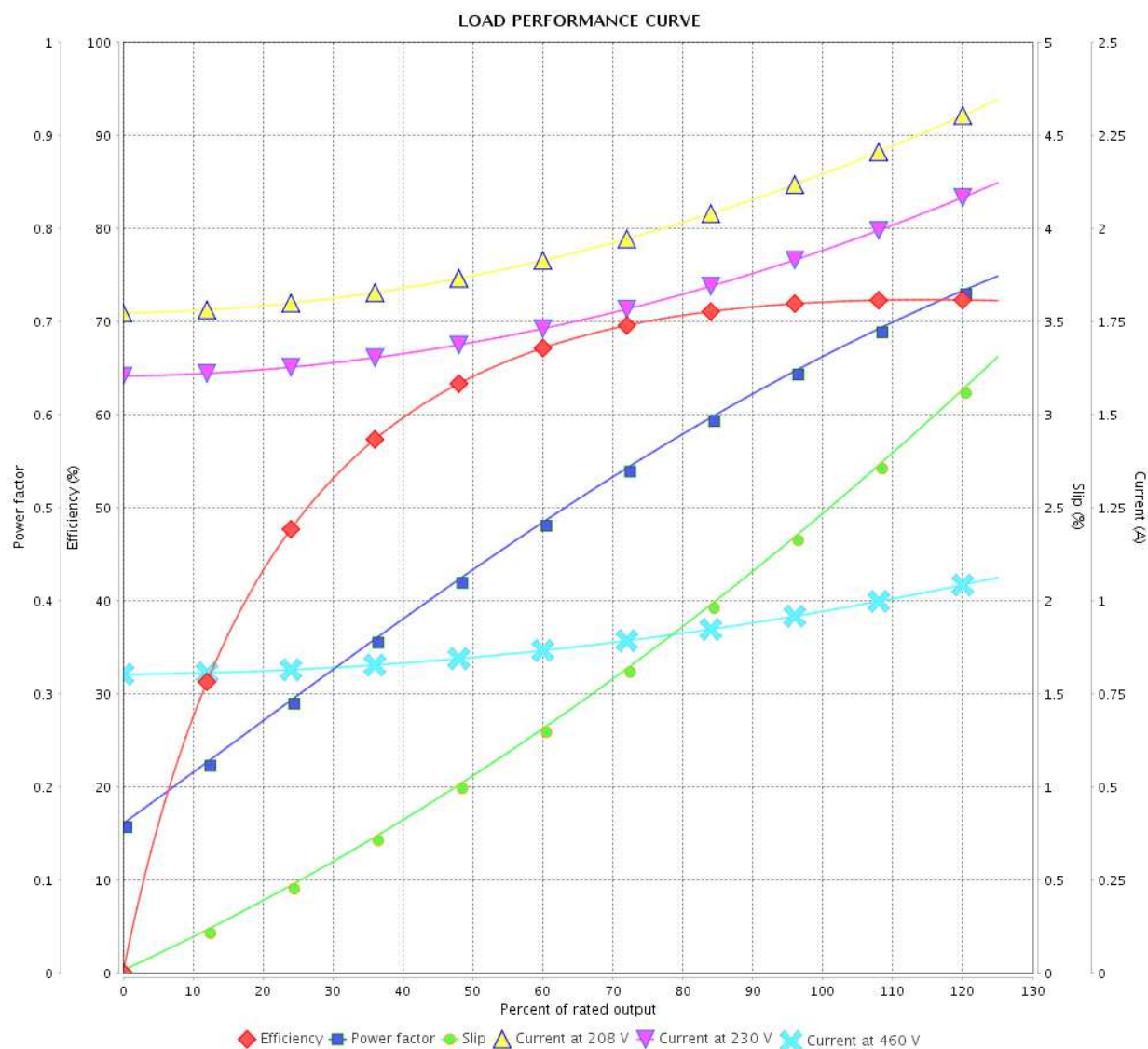
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13502188



Performance : 208-230/460 V 60 Hz 4P

Rated current : 2.16-1.95/0.977 A
 LRC : 6.0
 Rated torque : 0.207 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 290 %
 Rated speed : 1755 rpm

Moment of inertia (J) : 0.0019 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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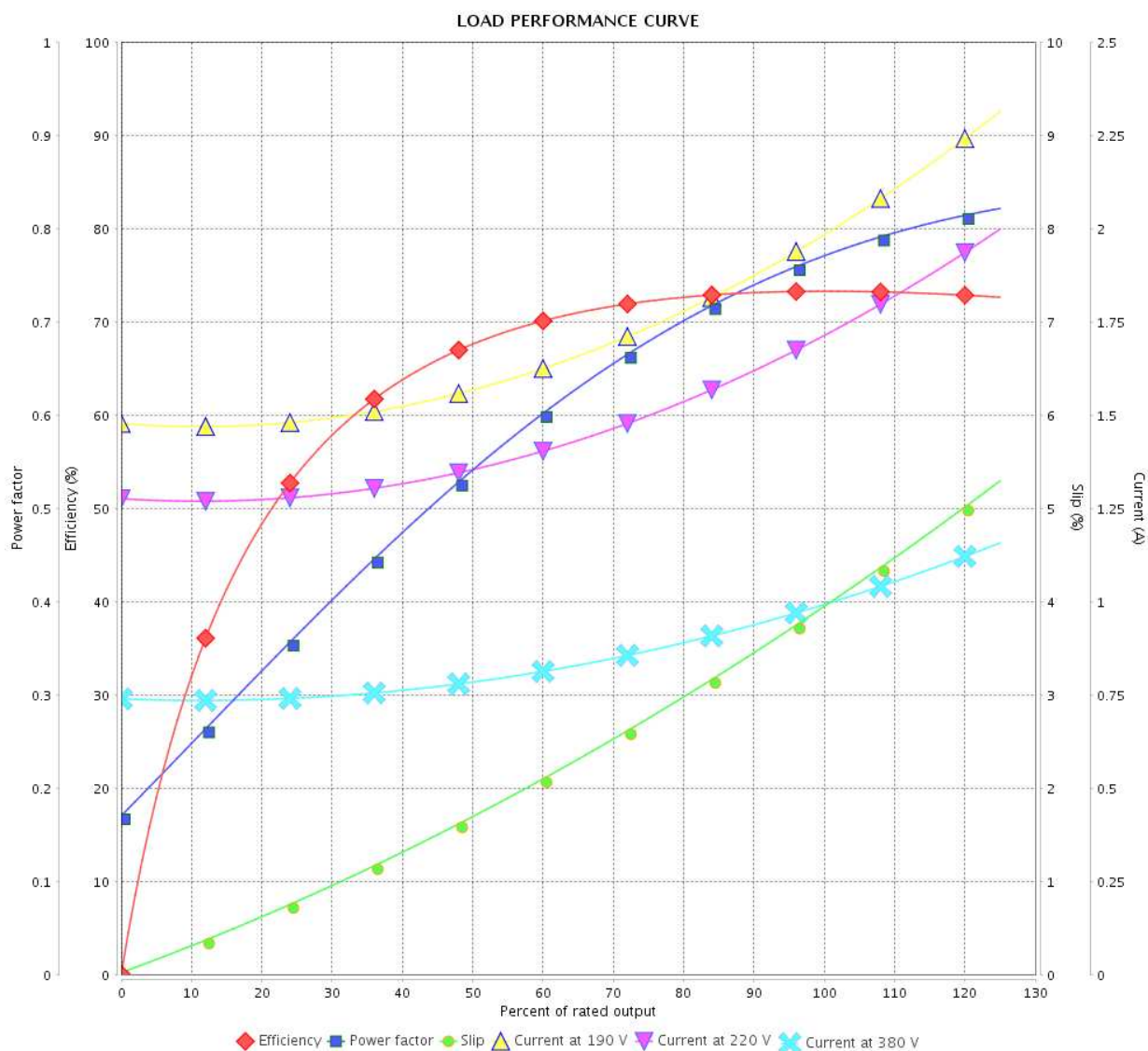
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13502188



Performance : 190-220/380 V 50 Hz 4P

Rated current : 1.99-1.72/0.997 A
 LRC : 4.9
 Rated torque : 0.252 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 220 %
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.0019 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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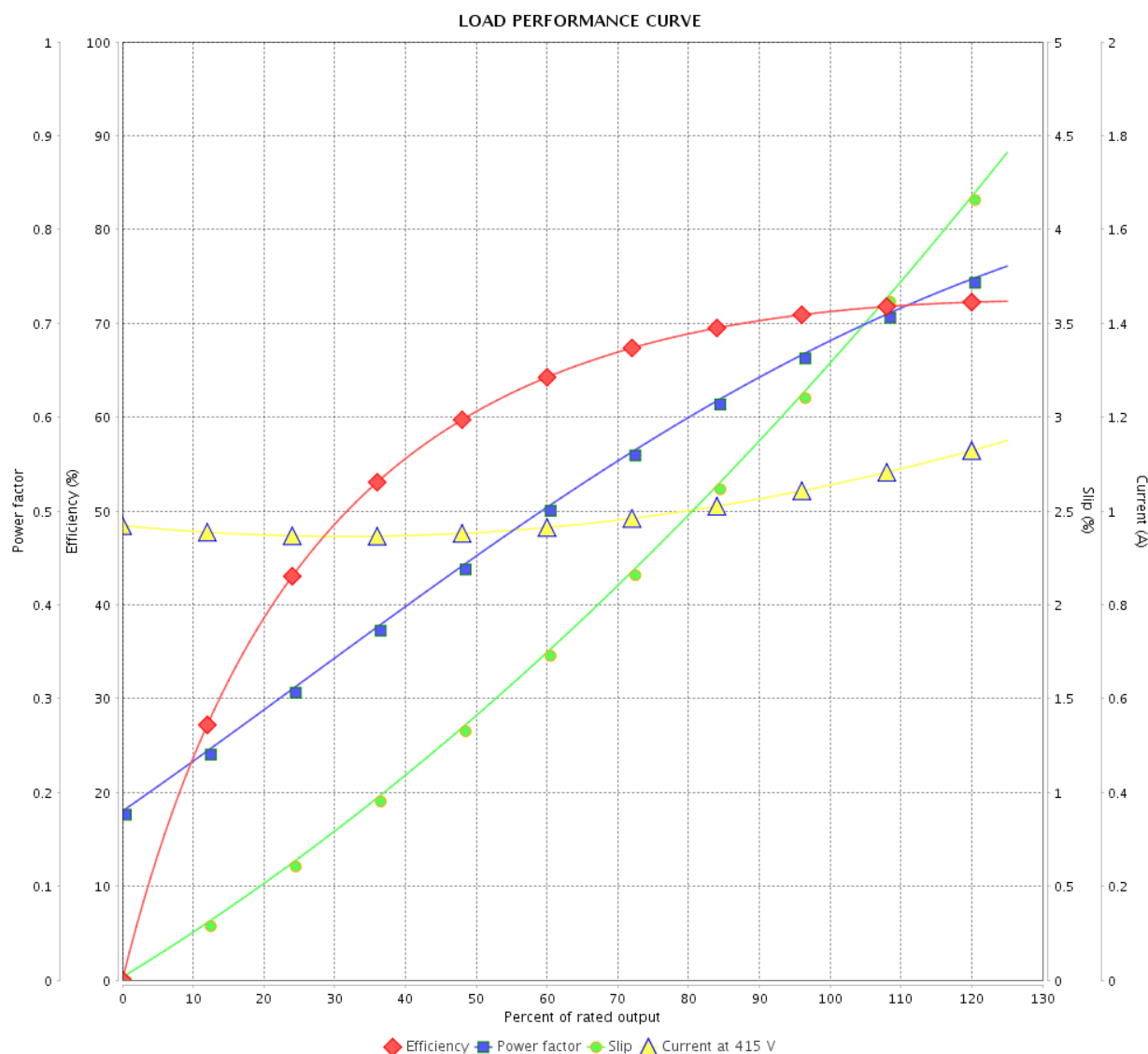
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13502188



Performance : 415 V 50 Hz 4P

Rated current : 1.06 A
 LRC : 5.1
 Rated torque : 0.250 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 270 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0019 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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