

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894789

Frame	: 56HC	Cooling method	: IC411 - TEFC
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	: 15.1 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0044 kgm ²
Design	: A		

Output [HP]	1.5	1.5	1.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	4.46/2.23	5.16/2.58	4.77/2.53
L. R. Amperes [A]	33.5/16.7	31.0/15.5	30.5/16.2
LRC [A]	7.5x(Code K)	6.0x(Code H)	6.4x(Code J)
No load current [A]	3.00/1.50	2.91/1.45	3.17/1.68
Rated speed [RPM]	1750	1430	1440
Slip [%]	2.78	4.67	4.00
Rated torque [kgfm]	0.622	0.761	0.756
Locked rotor torque [%]	250	190	210
Breakdown torque [%]	300	220	250
Service factor		1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	16s (cold) 9s (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%	75.4	78.0
	50%	77.0	77.4
	75%	80.0	79.1
	100%	81.5	77.9
Power Factor	25%	0.30	0.36
	50%	0.54	0.62
	75%	0.67	0.76
	100%	0.76	0.83

Bearing type	: Drive end 6204 ZZ Non drive end 6202 ZZ	Foundation loads	
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 53 kgf
Lubrication interval	: - -	Max. compression	: 68 kgf
Lubricant amount	: - -		
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 4.93A SF 1.00 SFA 4.93A

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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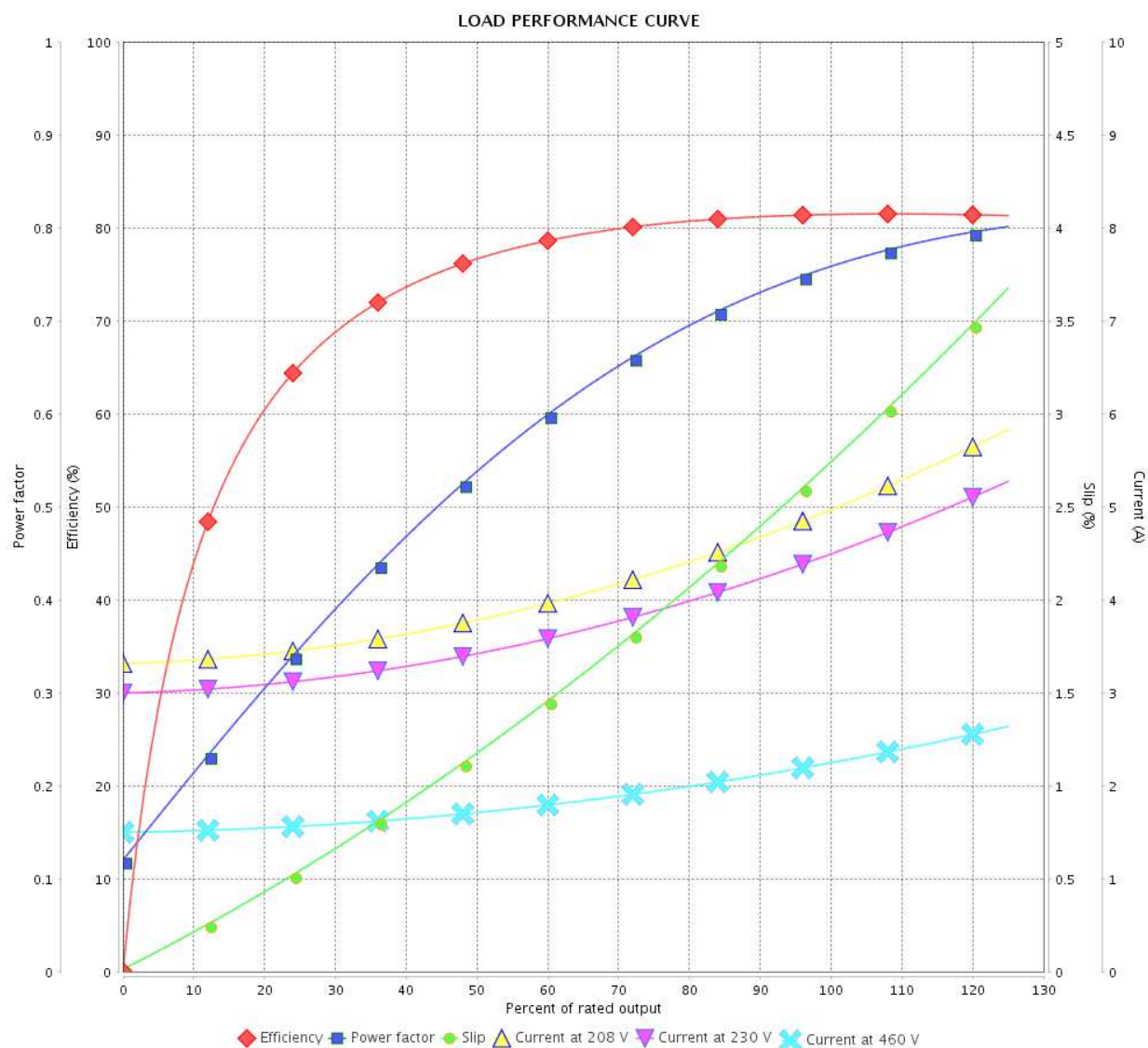
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894789



Performance : 230/460 V 60 Hz 4P

Rated current : 4.46/2.23 A
 LRC : 7.5
 Rated torque : 0.622 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0044 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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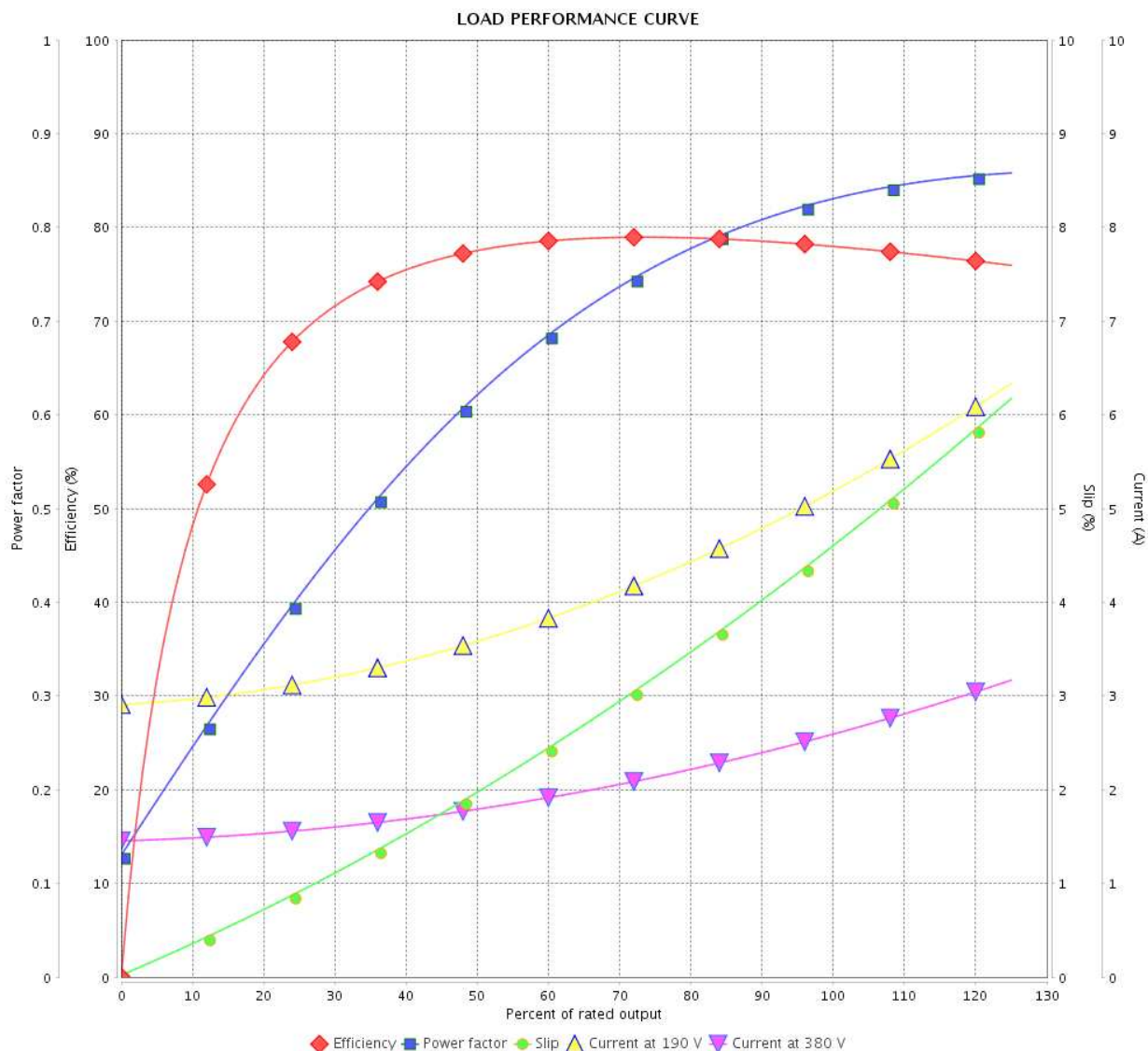
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 12894789



Performance : 190/380 V 50 Hz 4P

Rated current : 5.16/2.58 A
 LRC : 6.0
 Rated torque : 0.761 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 220 %
 Rated speed : 1430 rpm

Moment of inertia (J) : 0.0044 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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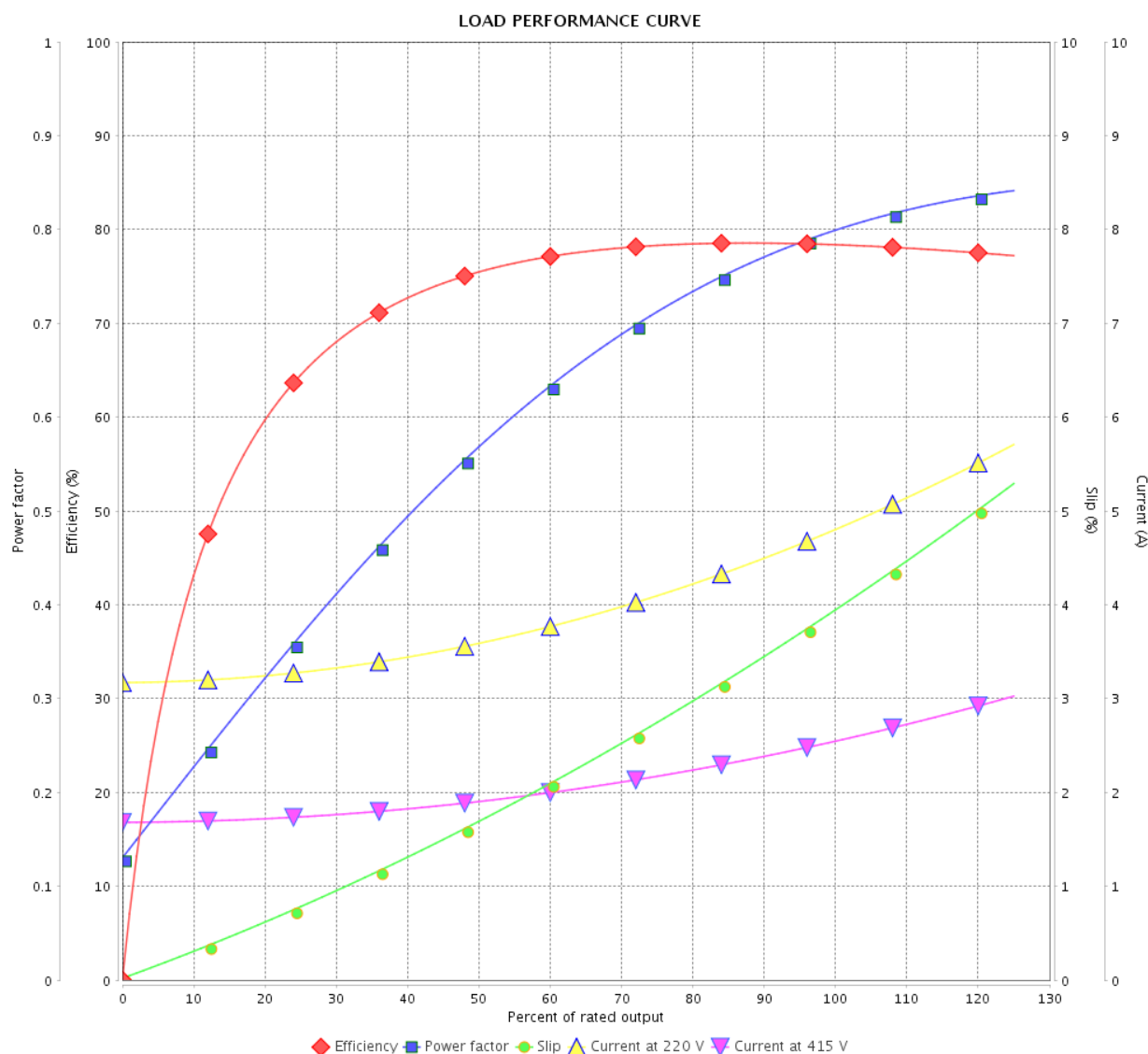
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894789



Performance : 220/415 V 50 Hz 4P

Rated current : 4.77/2.53 A
 LRC : 6.4
 Rated torque : 0.756 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.0044 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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