

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805246

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	: 14.7 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0041 kgm ²
Design	: A		

Output [HP]	2	1.5	1.5
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	5.24/2.62	4.74/2.37	4.34/2.30
L. R. Amperes [A]	40.3/20.2	39.3/19.7	39.0/20.7
LRC [A]	7.7x(Code K)	8.3x(Code K)	9.0x(Code L)
No load current [A]	2.07/1.04	2.04/1.02	2.19/1.16
Rated speed [RPM]	3475	2890	2900
Slip [%]	3.47	3.67	3.33
Rated torque [kgfm]	0.418	0.377	0.375
Locked rotor torque [%]	229	270	310
Breakdown torque [%]	290	320	350
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	19s (cold) 11s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	73.9	75.7
	50%	75.5	76.3
	75%	78.5	79.2
	100%	80.0	79.4
Power Factor	25%	0.49	0.47
	50%	0.76	0.74
	75%	0.86	0.84
	100%	0.90	0.89

Bearing type	: Drive end	Non drive end	Foundation loads
	: 6204 ZZ	6202 ZZ	
Sealing	: V'Ring	Without	Max. traction : 35 kgf
		Bearing Seal	
Lubrication interval	: -	-	Max. compression : 49 kgf
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 5.79A SF 1.00 SFA 5.79A

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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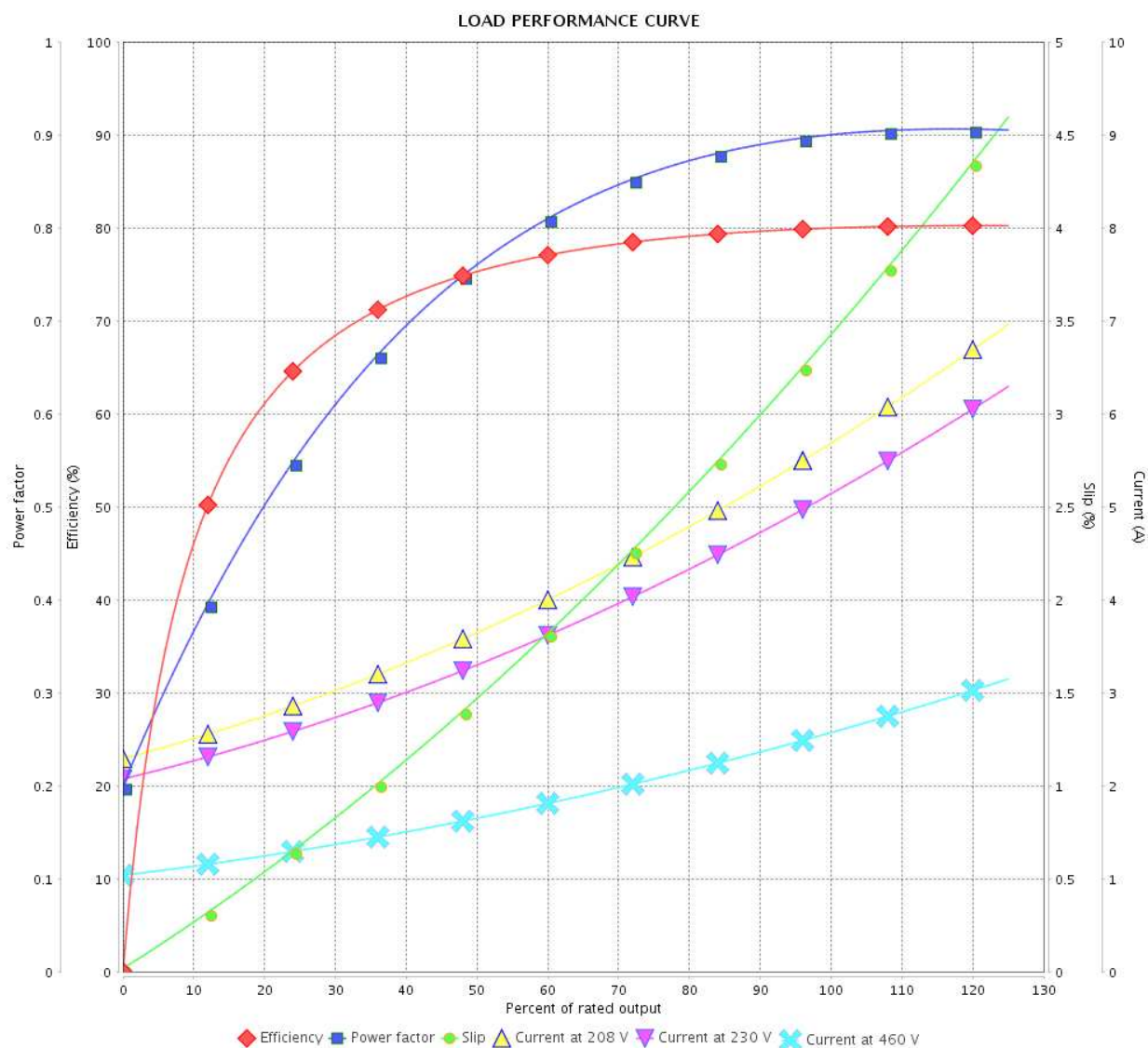
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805246



Performance : 230/460 V 60 Hz 2P

Rated current : 5.24/2.62 A
 LRC : 7.7
 Rated torque : 0.418 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 3475 rpm

Moment of inertia (J) : 0.0041 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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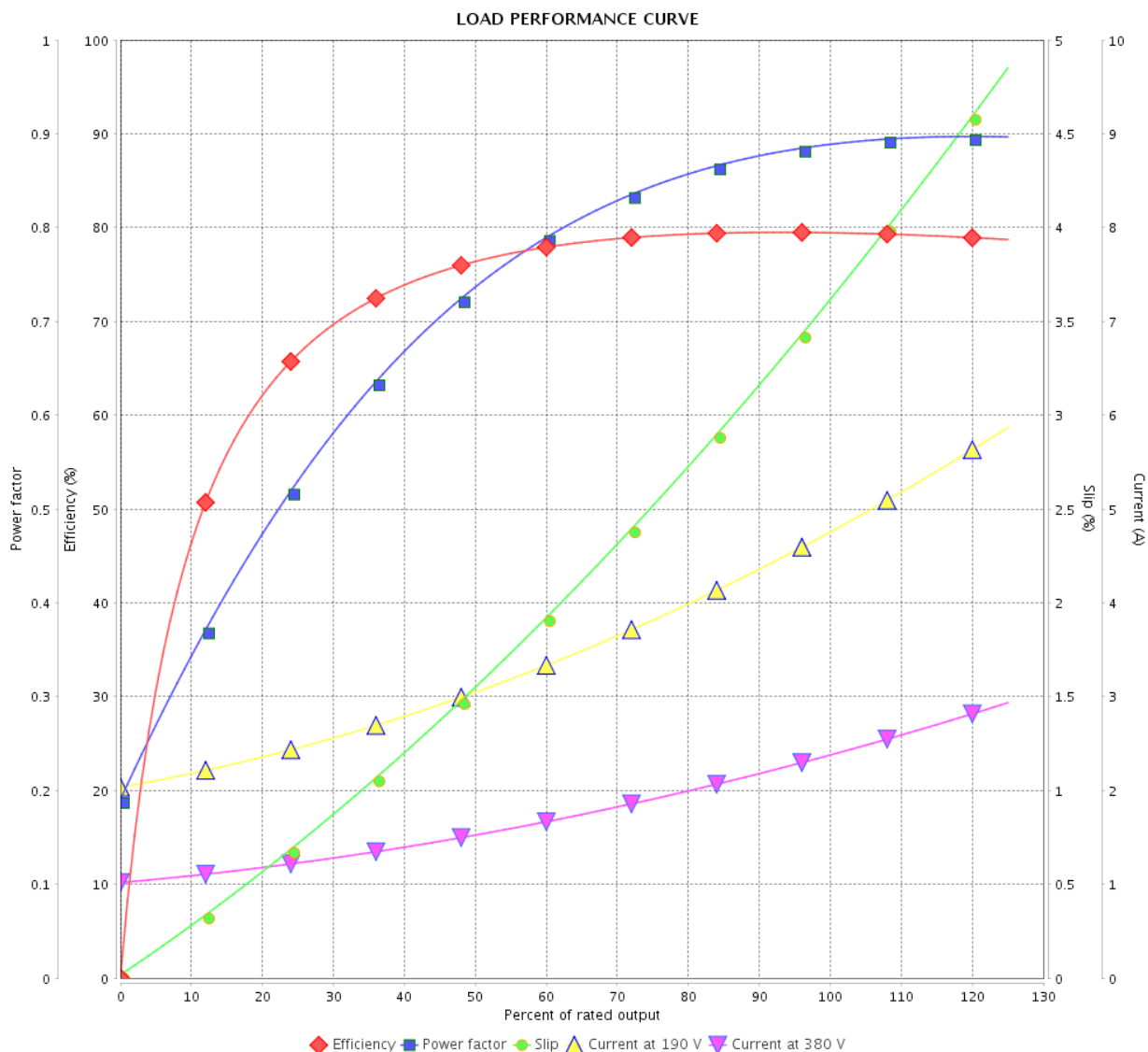
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805246



Performance : 190/380 V 50 Hz 2P

Rated current : 4.74/2.37 A
 LRC : 8.3
 Rated torque : 0.377 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 320 %
 Rated speed : 2890 rpm

Moment of inertia (J) : 0.0041 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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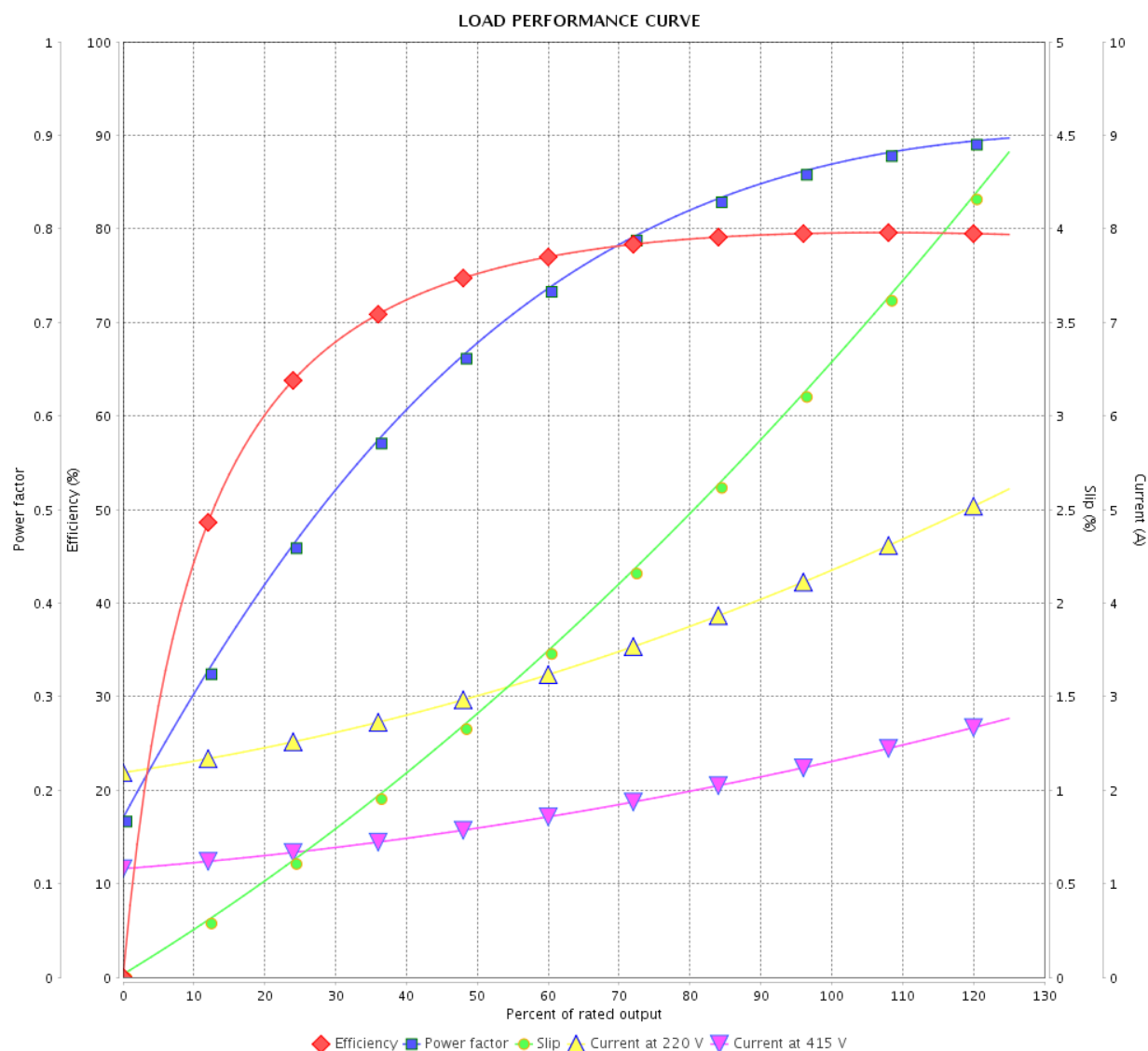
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805246



Performance : 220/415 V 50 Hz 2P

Rated current : 4.34/2.30 A
 LRC : 9.0
 Rated torque : 0.375 kgfm
 Locked rotor torque : 310 %
 Breakdown torque : 350 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0041 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

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