

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13989584

Frame	: W56C	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	: 10.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0022 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	190/380	220/415
Rated current [A]	1.72-1.56/0.778	1.82/0.911	1.63/0.865
L. R. Amperes [A]	11.0-9.96/4.98	8.56/4.28	8.97/4.76
LRC [A]	6.4x(Code J)	4.7x(Code G)	5.5x(Code H)
No load current [A]	0.855-0.992/0.496	0.980/0.490	1.04/0.549
Rated speed [RPM]	1730	1400	1415
Slip [%]	3.89	6.67	5.67
Rated torque [kgfm]	0.210	0.259	0.256
Locked rotor torque [%]	229	170	210
Breakdown torque [%]	310	200	250
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	36s (cold) 20s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)
Noise level ²	50.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	74.0	72.2
	75%	77.0	75.5
	100%	78.5	75.3
Power Factor	25%		
	50%	0.54	0.56
	75%	0.67	0.70
	100%	0.76	0.79

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6203 ZZ	6202 ZZ	Max. traction : 15 kgf
Sealing	: V'Ring	V'Ring	Max. compression : 25 kgf
Lubrication interval	: -	-	
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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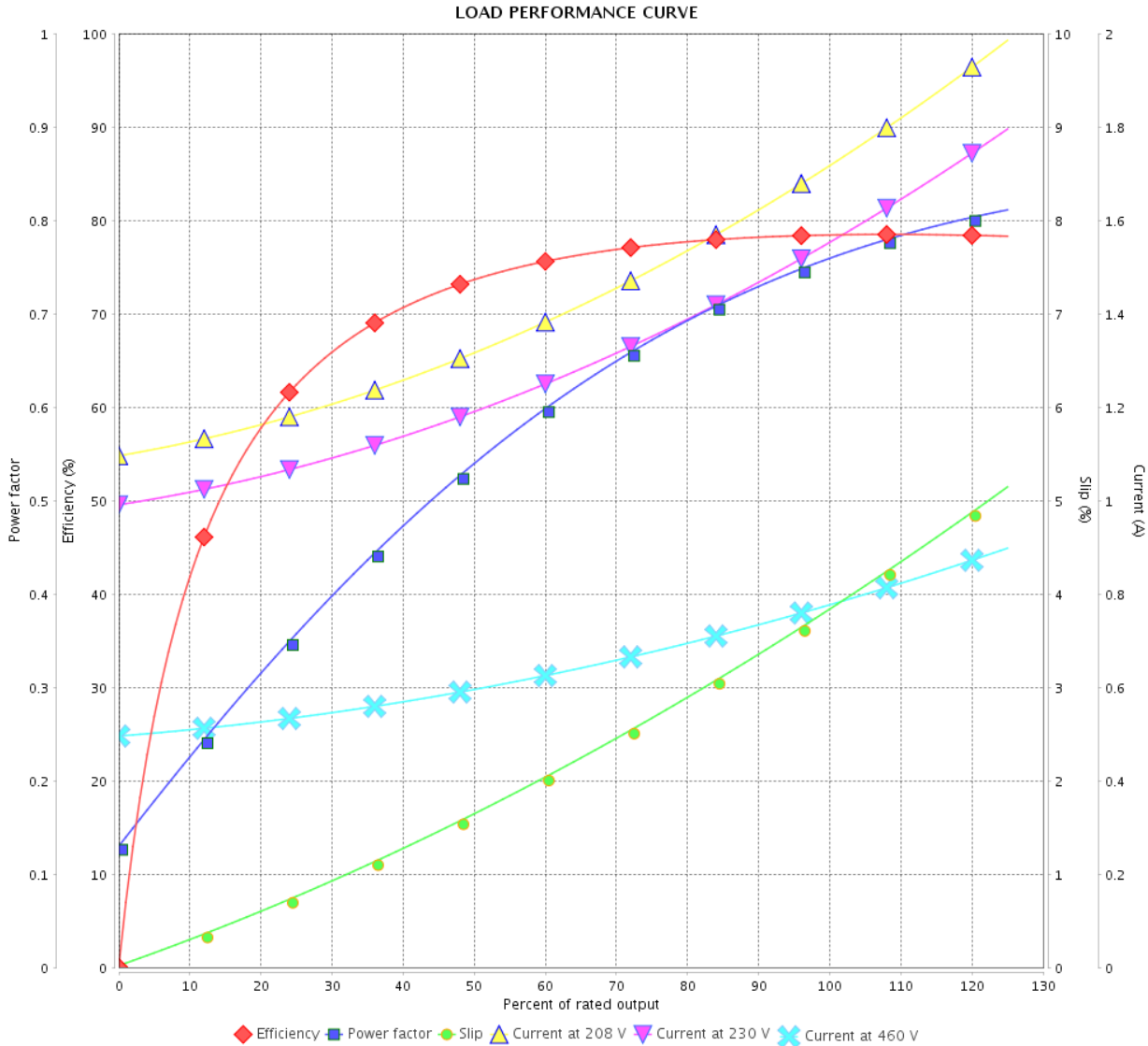
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13989584



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

Rated current : 1.72-1.56/0.778 A
 LRC : 6.4
 Rated torque : 0.210 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 310 %
 Rated speed : 1730 rpm

Moment of inertia (J) : 0.0022 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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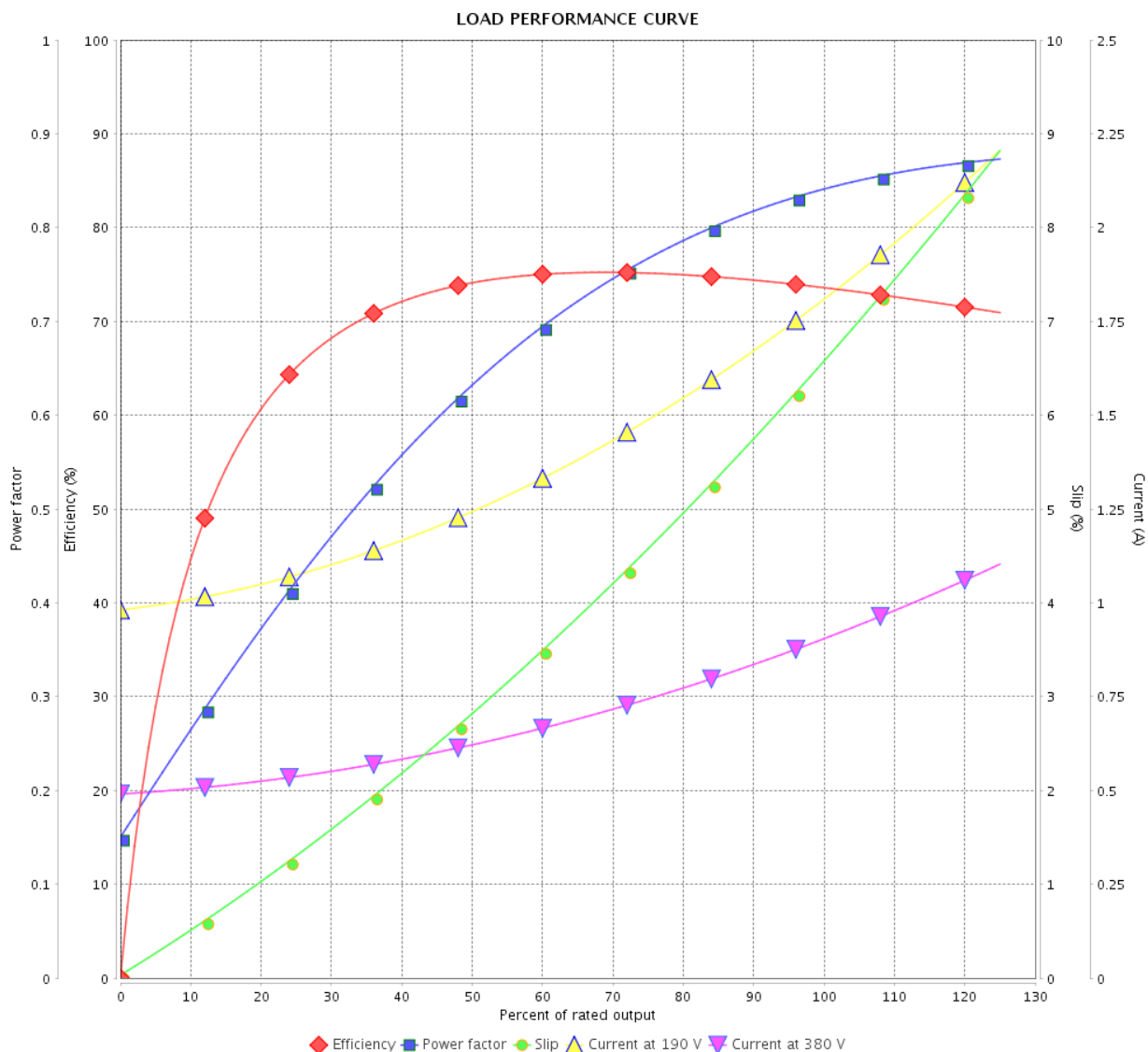
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13989584



Performance : 190/380 V 50 Hz 4P

Rated current : 1.82/0.911 A
 LRC : 4.7
 Rated torque : 0.259 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 200 %
 Rated speed : 1400 rpm

Moment of inertia (J) : 0.0022 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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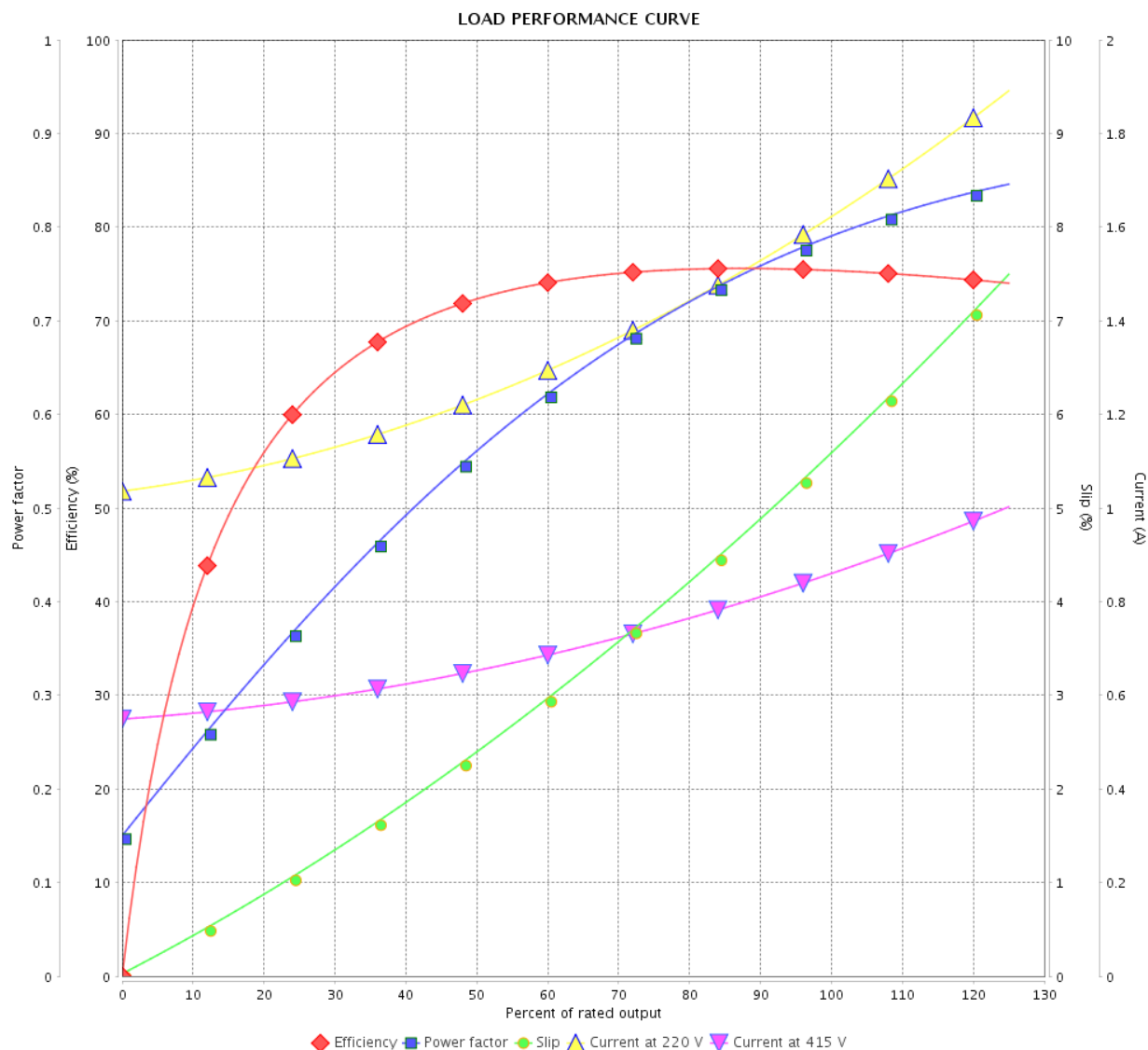
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13989584



Performance : 220/415 V 50 Hz 4P

Rated current : 1.63/0.865 A
 LRC : 5.5
 Rated torque : 0.256 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1415 rpm

Moment of inertia (J) : 0.0022 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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