### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12636592

Phase

Frame : 254/6TC Cooling method : IC411 - TEFC Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 117 kg
Protection degree : IP55 Moment of inertia (J) : 0.1113 kgm²

Design : B

Output [HP]		20	15	15	
Poles		4	4	4	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	190/380	220/415	
Rated current [A]		49.4/24.7	44.4/22.2	41.3/21.9	
L. R. Amperes [A]		331/165	329/164	330/175	
LRC [A]		6.7x(Code H)	7.4x(Code J)	8.0x(Code K)	
No load current [A	]	22.2/11.1	21.9/10.9	22.5/11.9	
Rated speed [RPN	<i>/</i> I]	1765	1470	1475	
Slip [%]		1.94	2.00	1.67	
Rated torque [kgfm]		8.22	7.41	7.38	
Locked rotor torque [%]		270	270	310	
Breakdown torque [%]		300	320	360	
Service factor		1.15	1.15	1.15	
Temperature rise		80 K	80 K	80 K	
Locked rotor time		28s (cold) 16s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)	
	25%	91.0	91.8	91.1	
25% 50%	91.7	91.6	91.1		
Linciency (70)	75%	92.4	92.2	92.1	
	100%	93.0	91.8	91.9	
	25%	0.40	0.40 0.37 0.	0.34	
Power Factor	50%	0.66	0.63	0.58	
	75%	0.77	0.75	0.71	
	100%	0.82	0.82	0.79	

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6309 Z C3 6208 Z C3 Max. traction : 360 kgf Sealing : V'Ring Without Max. compression : 476 kgf

Bearing Seal
Lubrication interval : 20000 h 20000 h
Lubricant amount : 13 g 8 g

Lubricant amount : 13 g 8 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 54.6A SF 1.00 SFA 54.6A

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

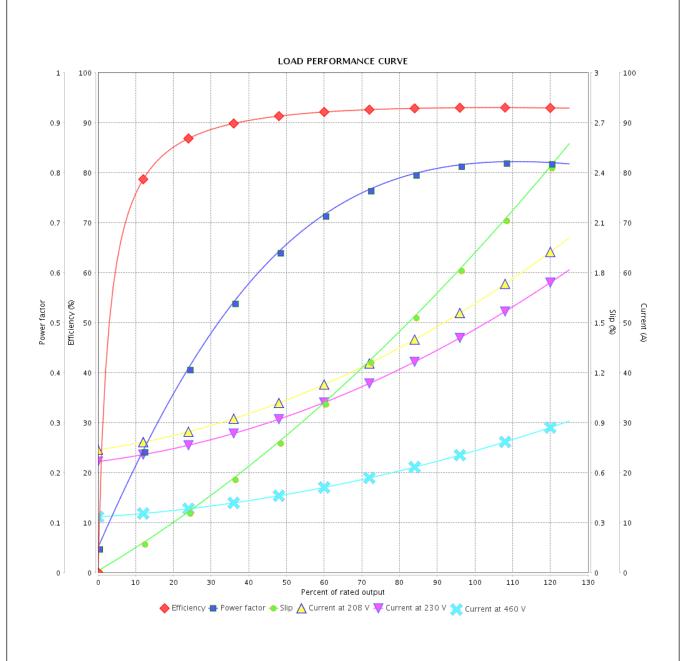
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12636592

Phase



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 6.7       Duty cycl         : 8.22 kgfm       Insulation         : 270 %       Service fa		class actor	: 0.1113 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rated speed	: 1765 rpm	100.10			
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# LOAD PERFORMANCE CURVE

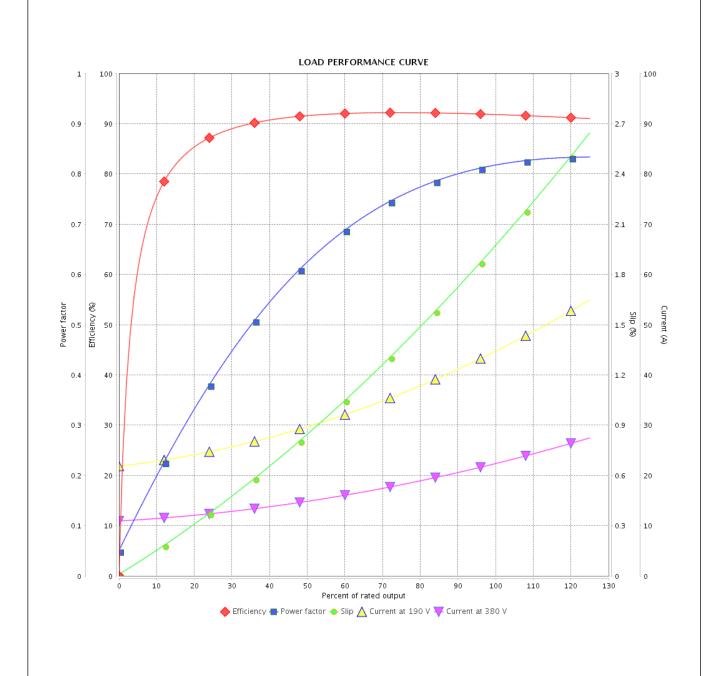
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12636592

Phase



Performance	: 190/380 V 50 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 44.4/22.2 A : 7.4 : 7.41 kgfm : 270 % : 320 % : 1470 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 0.1113 kgm² : Cont.(S1) : F : 1.15 : 80 K : B			
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# LOAD PERFORMANCE CURVE

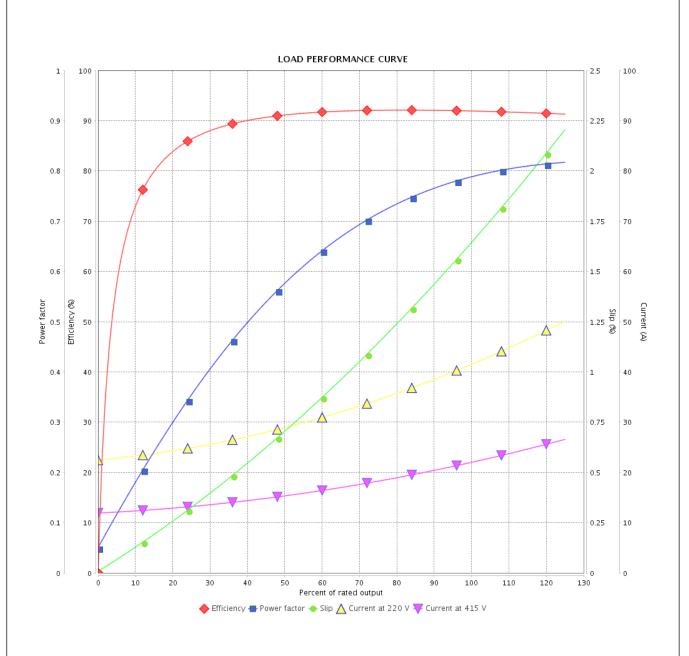
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12636592

Phase



Performance		: 220/415 V 50 Hz 4P						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 7 que : 3 ue : 3	11.3/21.9 A 3.0 7.38 kgfm 310 % 360 % 1475 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design				
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