### **DATA SHEET**

Customer

Output [HP]

#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-Product code: 12636594

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

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

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Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 103 kg Protection degree : IP55 Moment of inertia (J) : 0.0904 kgm<sup>2</sup>

Design : B

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Poles		4	4	4	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	190/380	220/415	
Rated current [A]		36.4/18.2	43.8/21.9	39.4/20.9	
L. R. Amperes [A]		237/118	241/120	240/127	
LRC [A]		6.5x(Code G)	5.5x(Code F)	6.1x(Code G)	
No load current [A	.]	17.3/8.65	17.1/8.53	17.5/9.28	
Rated speed [RPM]		1770	1455	1460	
Slip [%]		1.67	3.00	2.67	
Rated torque [kgfm]		6.15	7.48	7.46	
Locked rotor torque [%]		250	190	210	
Breakdown torque [%]		300	229	260	
Service factor		1.15	1.00	1.00	
Temperature rise		80 K	105 K	105 K	
Locked rotor time		34s (cold) 19s (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%	90.8	92.5	91.9	
Efficiency (%)	50%	91.0	91.5	91.2	
	75%	92.4	91.2	91.4	
	100%	92.4	89.9	90.4	
Power Factor	25%	0.39	0.45	0.41	
	50%	0.64	0.71	0.67	
	75%	0.76	0.81	0.78	
	100%	0.82	0.85	0.84	

Non drive end Foundation loads Drive end

Bearing type 6309 Z C3 6208 Z C3 Max. traction : 253 kgf Sealing V'Ring Without Max. compression : 356 kgf

Bearing Seal Lubrication interval 20000 h 20000 h

Lubricant amount 8 g 13 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 40.2A SF 1.00 SFA 40.2A

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

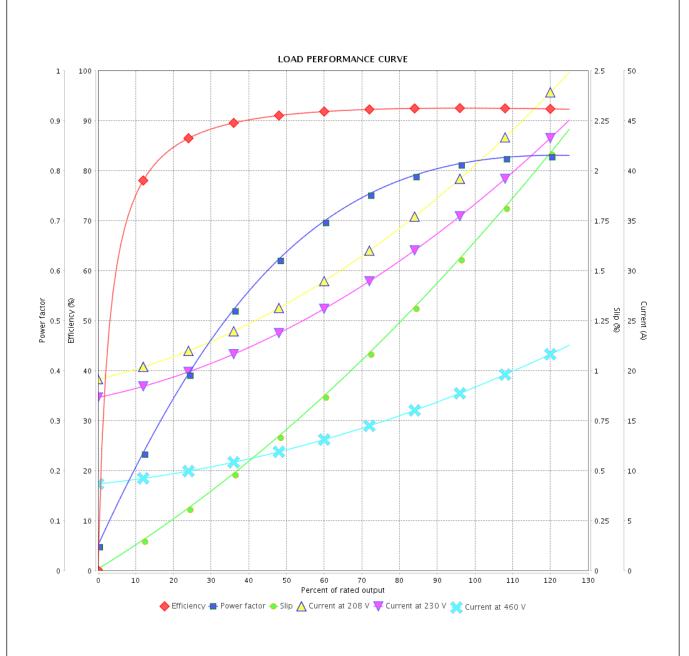
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12636594

Phase



Performance	: 230/460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.4/18.2 A : 6.5 : 6.15 kgfm : 250 % : 300 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0904 kgm² : Cont.(S1) : F : 1.15 : 80 K : B		
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Date

# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

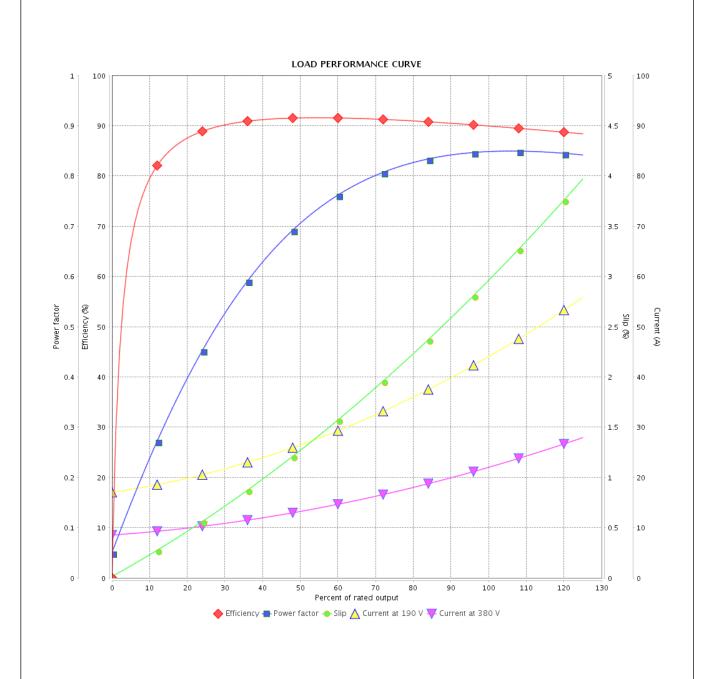
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Date

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Product line : NEMA Premium Efficiency Three- Product code : 12636594

Phase



Performance	: 190/380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.8/21.9 A : 5.5 : 7.48 kgfm : 190 % : 229 % : 1455 rpm	: 5.5       Duty cycle         : 7.48 kgfm       Insulation         : 190 %       Service fa         : 229 %       Temperat		: 0.0904 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	:	
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# LOAD PERFORMANCE CURVE

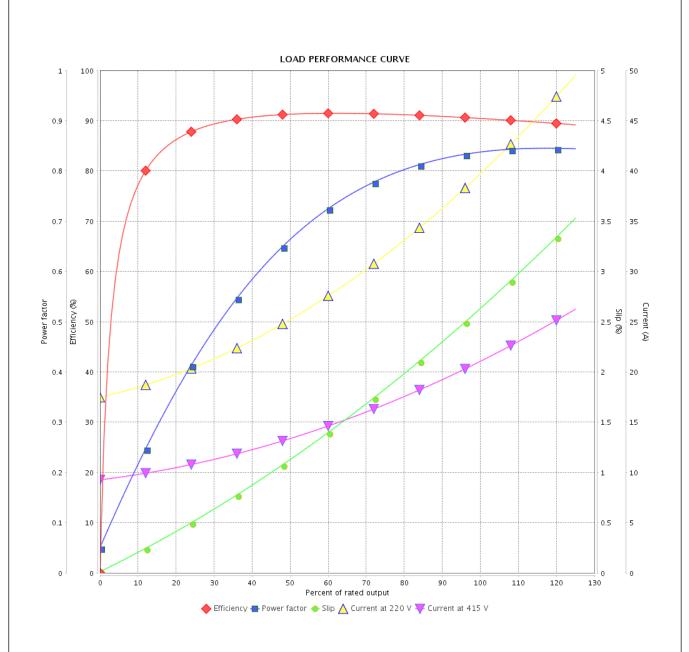
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12636594

Phase



Performance	: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 39.4/20.9 A : 6.1 : 7.46 kgfm : 210 % : 260 % : 1460 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 0.0904 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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