### **DATA SHEET**

Customer

#### Three Phase Induction Motor - Squirrel Cage



Product line : NEMA Premium Efficiency Three-Product code: 14605391

: 254/6TC : IC01 - ODP Frame Cooling method Inculation class

Insulation class		: F	Mounting	: W-12
Duty cycle		: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient tempera	iture	: -20°C to +40°C	Starting method	: Direct On Line
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 102 kg
Design		: B	Moment of inertia (J)	: 0.0939 kgm²
Output [HP]		20	20	20
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		50.0/25.0	59.8/29.9	54.0/28.6
L. R. Amperes [A]		315/158	311/155	313/166
LRC [A]		6.3x(Code G)	5.2x(Code F)	5.8x(Code G)
No load current [A]	]	22.9/11.4	22.4/11.2	23.6/12.5
Rated speed [RPN	1]	1770	1460	1465
Slip [%]		1.67	2.67	2.33
Rated torque [kgfn	n]	8.20	9.94	9.91
Locked rotor torqu	e [%]	240	180	200
Breakdown torque [%]		290	220	250
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>		64.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%			
Efficiency (%)	50%	92.4	91.8	91.4
Efficiency (%)	75%	92.4	91.2	91.3
	100%	93.0	89.7	90.2
	25%			
Power Factor	50%	0.63	0.72	0.68
I OWEL FACIOI	75%	0.74	0.82	0.79
	100%	0.81	0.85	0.84

Drive end Non drive end Foundation loads

Bearing type 6309 Z C3 6208 Z C3 Max. traction : 338 kgf Sealing Without Without Max. compression : 441 kgf

> Bearing Seal Bearing Seal

Lubrication interval 20000 h 20000 h 8 g Lubricant amount 13 g Mobil Polyrex EM

Notes

Lubricant type

USABLE @208V 55.3A SF 1.00 SFA 55.3A

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

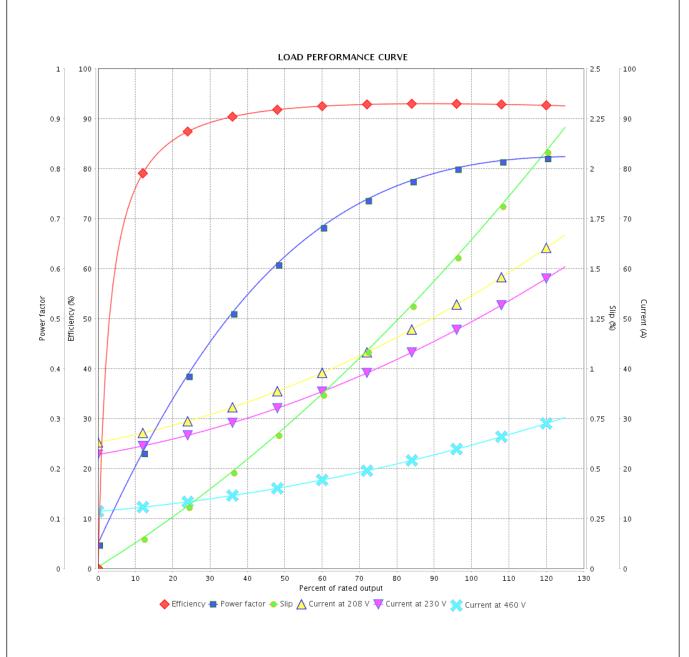
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14605391

Phase



Performance	: 230/460 V 60 Hz 4P				
Rated current	: 50.0/25.0 A	Moment of inertia (J)		: 0.0939 kgm²	
LRC	: 6.3	Duty cycle		: Cont.(S1)	
Rated torque	: 8.20 kgfm	Insulation class		: F	
Locked rotor torque	: 240 %			: 1.15 : 80 K	
Breakdown torque	: 290 %				
Rated speed	: 1770 rpm	Design		: B	
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# LOAD PERFORMANCE CURVE

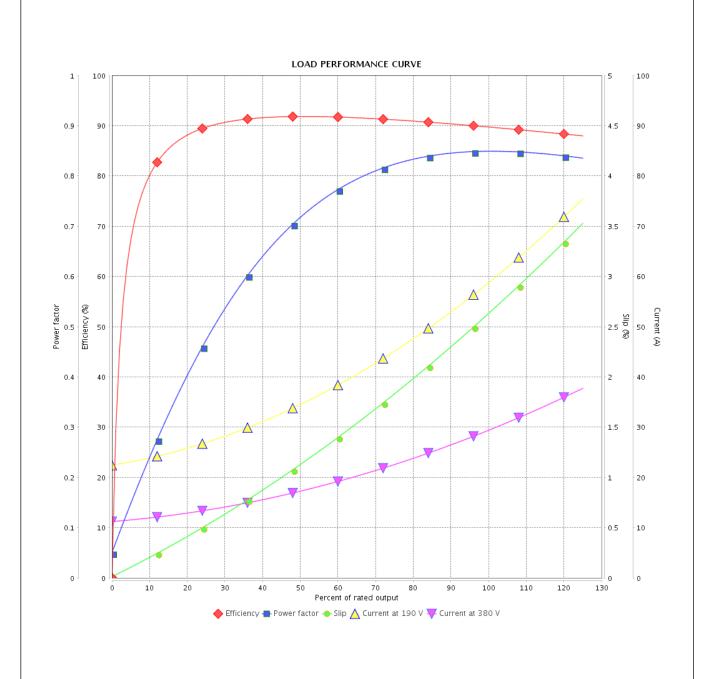
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14605391

Phase



Performance	: 190/380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 59.8/29.9 A : 5.2 : 9.94 kgfm : 180 % : 220 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0939 kgm² : Cont.(S1) : F : 1.15 : 80 K : B		
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## LOAD PERFORMANCE CURVE

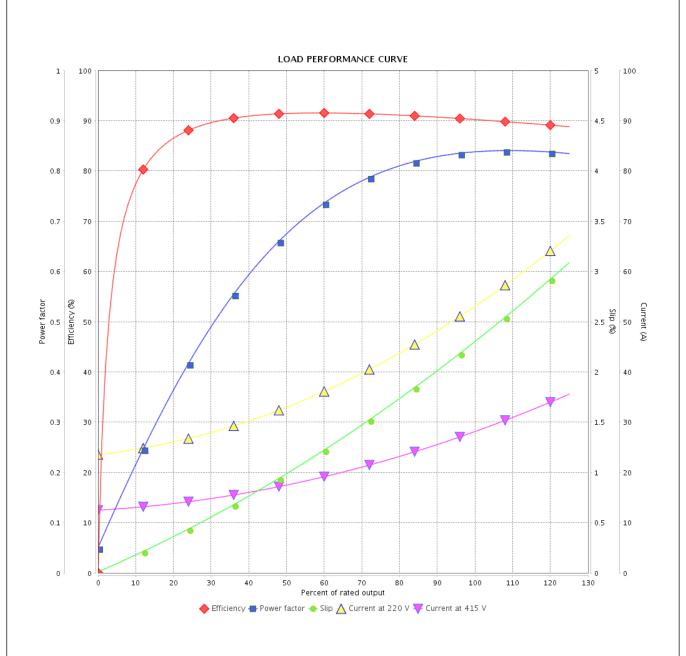
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14605391

Phase



Performance	: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 54.0/28.6 A : 5.8 : 9.91 kgfm : 200 % : 250 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0939 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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