DATA SHEET

Customer

Output [HP]

Frequency [Hz]

Poles

Three Phase Induction Motor - Squirrel Cage



3

2

50

0.91

Product line : NEMA Premium Efficiency Three- Product code : 12837721

Phase

Frame : 143/5TC 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

3

2

50

0.93

Altitude : 1000 m.a.s.l. Approx. weight³ : 22.6 kg
Protection degree : IP55 Moment of inertia (J) : 0.0070 kgm²

3

2

60

Protection degree : IP55
Design : B

Rated voltage [V]		230/460	190-220/380	415	
Rated current [A]		7.02/3.51	8.50-7.34/4.25	3.91	
L. R. Amperes [A]		66.7/33.3	62.9-54.3/31.5	34.8	
LRC [A]		9.5x(Code K)	7.4x(Code H)	8.9x(Code K)	
No load current [A	']	2.56/1.28	2.52-2.18/1.26	1.44	
Rated speed [RPI	۷]	3500	2870	2895	
Slip [%]		2.78	4.33	3.50	
Rated torque [kgfm]		0.622	0.759	0.752	
Locked rotor torqu	ıe [%]	300	229	290	
Breakdown torque [%]		380	280	340	
Service factor			1.15	1.15	
Temperature rise		80 K	80 K	80 K	
Locked rotor time		18s (cold) 10s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)	
Noise level ²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)	
	25%				
Efficiency (%)	50%	84.0	86.6	86.2	
	75%	86.5	86.4	87.0	
	100%	86.5	84.6	86.0	
	25%				
Power Factor	50%	0.78	0.83	0.78	
I OWELL ACIOI	75%	0.87	0.90	0.87	

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

0.91

Bearing type : 6205 ZZ 6203 ZZ Max. traction : 61 kgf Sealing : V'Ring Without Max. compression : 84 kgf

Lubrication interval : - - Lubricant amount : - -

Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 7.76A SF 1.00 SFA 7.76A

100%

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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Rev.		Changes Summary	•	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
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LOAD PERFORMANCE CURVE

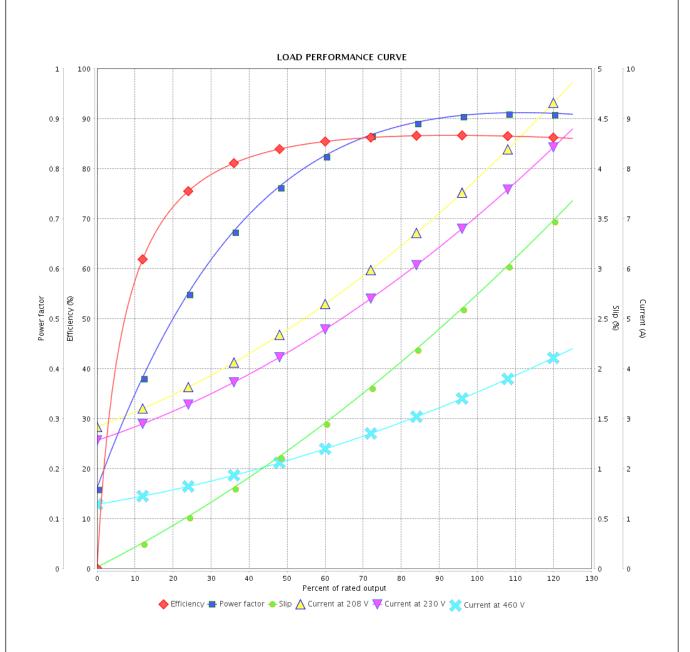
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12837721

Phase



Performance	: 2	30/460 V 60 Hz 2P					
Rated current	: 7	.02/3.51 A	Moment of	Moment of inertia (J)		: 0.0070 kgm²	
LRC		.5	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		.622 kgfm	kgfm Insulation class		: F		
Locked rotor torqu	ıe : 3	00 %	Service factor		:		
Breakdown torque	e : 3	80 %	Temperati	ure rise	: 80 K		
Rated speed	: 3	500 rpm	Design		: B		
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Performed by							
Checked by					Page	Revision	
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Three Phase Induction Motor - Squirrel Cage



Customer

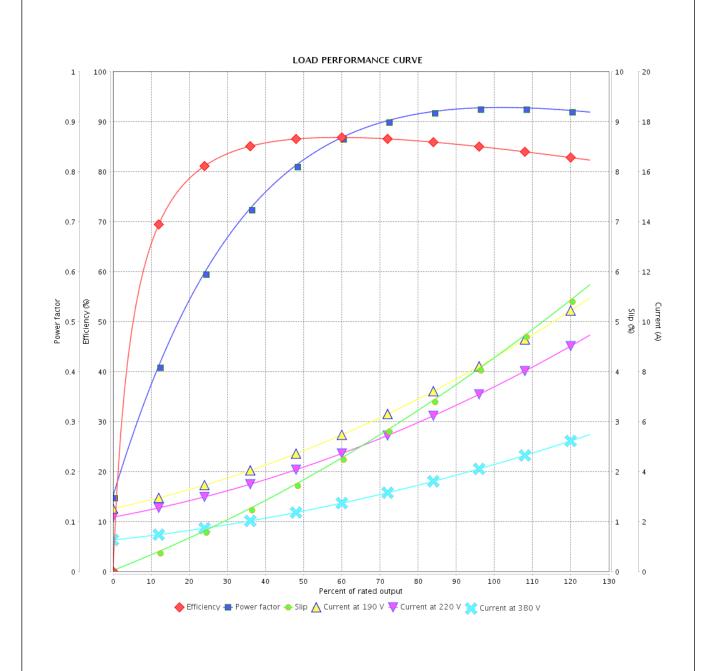
Checked by

Date

13/05/2022

Product line : NEMA Premium Efficiency Three- Product code : 12837721

Phase



Performance	: 190-220/380 V 50 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0070 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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Revision

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Three Phase Induction Motor - Squirrel Cage

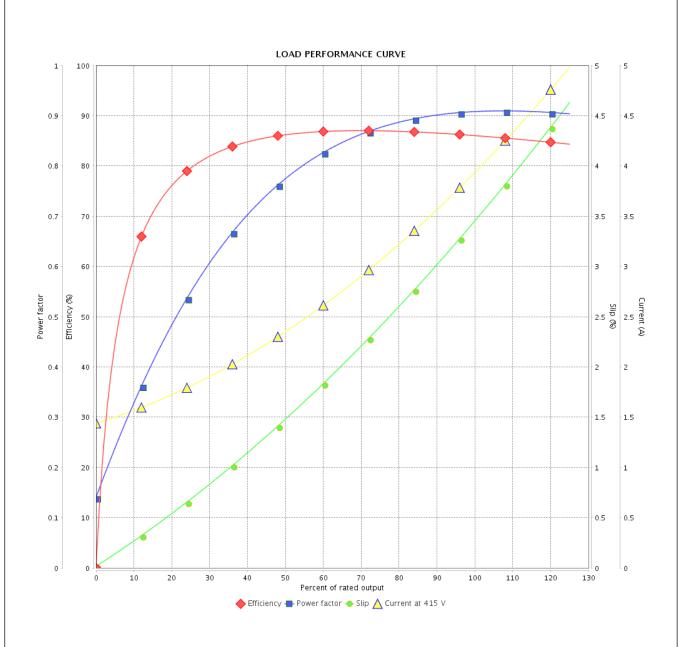


Customer :

Checked by

Product line : NEMA Premium Efficiency Three- Product code : 12837721

Phase



Performance : 415 V 50 Hz 2P : 0.0070 kgm² Rated current : 3.91 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 8.9 : 0.752 kgfm Insulation class Rated torque : F Locked rotor torque : 290 % Service factor : 1.15 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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