### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Frame

Insulation class

Rated torque [kgfm]

Power Factor

Locked rotor torque [%]

Ambient temperature

Duty cycle

Altitude

Product line : Close Coupled Pump NEMA Premium Product code:

Efficiency Three-Phase

: 284JM

: Cont.(S1)

: -20°C to +40°C

: 1000 m.a.s.l.

: F

Cooling method : IC01 - ODP

Mounting : F-1

9.84

330

0.59

0.71

Rotation<sup>1</sup> : Both (CW and CCW) Starting method : Direct On Line

12.4

229

0.73

0.82

0.85

12.4

240

0.69

0.79

0.83

12.3

260

0.66

0.77

0.82

11169353

Approx. weight3 : 171 kg Moment of inertia (J) : 0.1435 kgm<sup>2</sup>

Protection degree : IP23

10.3

250

0.67

0.78

Design : B

			I				
Output [HP]	25	20	20	20	25	25	25
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	59.8/29.9	29.8	29.4	28.6	36.1	35.1	34.0
L. R. Amperes [A]	401/200	197	194	186	195	193	187
LRC [A]	6.7x(Code H)	6.6x(Code H)	6.6x(Code H)	6.5x(Code H)	5.4x(Code F)	5.5x(Code F)	5.5x(Code
No load current [A]	24.0/12.0	11.9	12.9	13.8	11.9	12.9	13.8
Rated speed [RPM]	1770	1470	1470	1475	1460	1465	1470
Slip [%]	1.67	2.00	2.00	1.67	2.67	2.33	2.00

9.87

300

0.62

0.74

	- L - 1						_	
Breakdown torque [%]		280	300	330	360	240	260	290
Service factor		1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K						
Locked rotor time		27s (cold)	36s (cold)	37s (cold)	41s (cold)	36s (cold)	37s (cold)	41s (cold)
		15s (hot)	20s (hot)	21s (hot)	23s (hot)	20s (hot)	21s (hot)	23s (hot)
Noise level <sup>2</sup>		62.0 dB(A)						
	25%							
Efficiency (%)	50%	92.4	89.6	89.4	88.8	91.0	91.0	91.0
Efficiency (70)	75%	93.0	91.5	91.5	91.4	91.7	91.7	91.7
	100%	93.6	92.1	92.1	92.3	91.7	91.7	92.4
	25%							

100% 0.80 0.78 0.83 0.83 Drive end Non drive end Foundation loads

6311 Z C3 Bearing type 6211 Z C3 Max. traction : 426 kgf Sealing Without Without Max. compression : 597 kgf

0.66

0.78

9.87

290

Bearing Seal Bearing Seal 20000 h Lubrication interval 20000 h

Lubricant amount 11 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 66.1A SF 1.15 SFA 76.0A

50%

75%

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 :

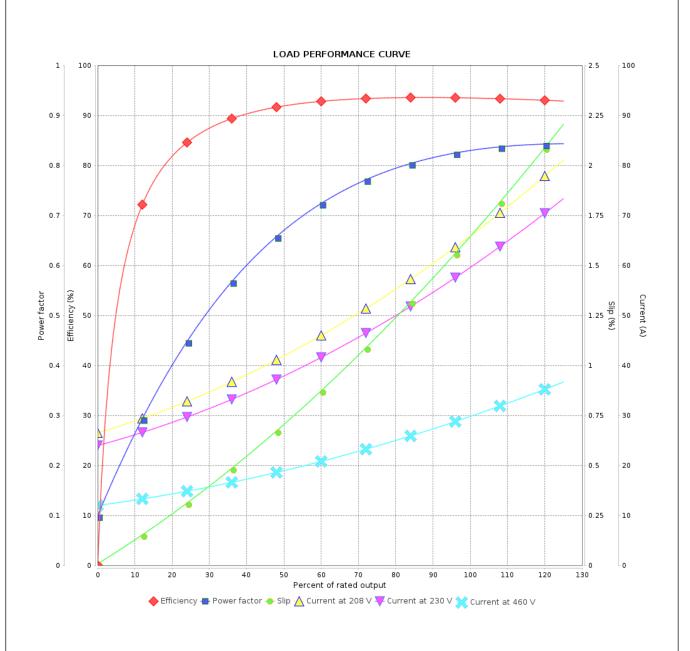
Date

14/01/2024

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11169353



Performance : 230/460 V 60 Hz 4P Rated current : 59.8/29.9 A Moment of inertia (J) : 0.1435 kgm<sup>2</sup> **LRC** Duty cycle : Cont.(S1) : 6.7 : 10.3 kgfm Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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### Three Phase Induction Motor - Squirrel Cage

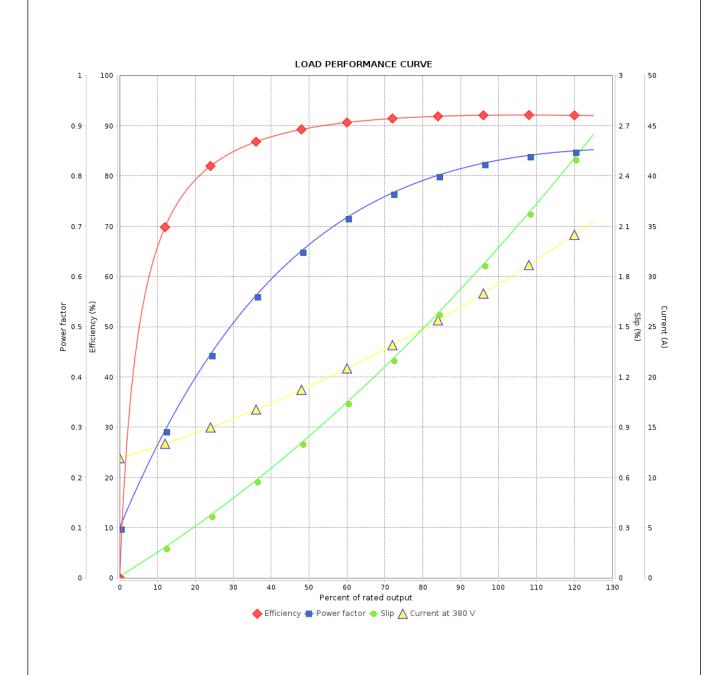


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11169353



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current		9.8 A		Moment of inertia (J)		2
LRC	: 6	.6	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 9	.87 kgfm	Insulation	Insulation class		
Locked rotor torq	ue : 2	90 %	Service fa	actor	: 1.15	
Breakdown torque		00 %	Temperature rise		: 80 K	
Rated speed	: 1	470 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage

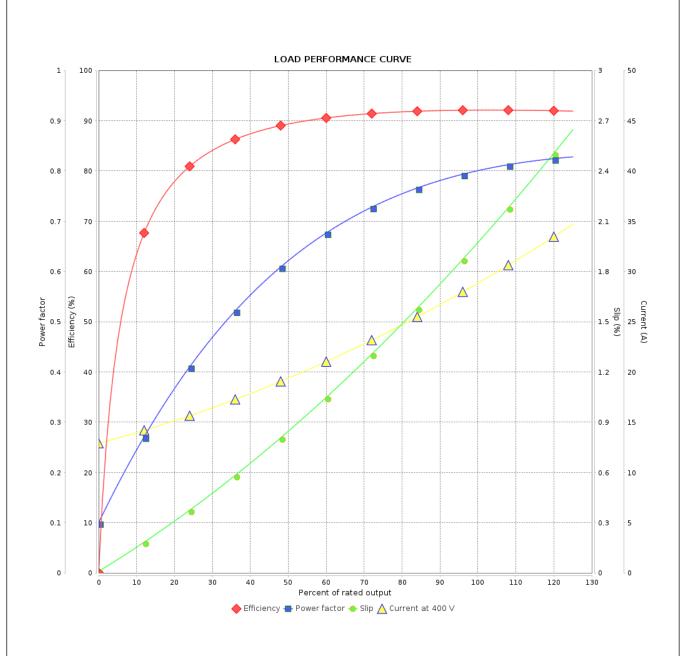


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11169353



Domformon	. 400 \/ E0 LI= 4D IE2			
Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 29.4 A : 6.6 : 9.87 kgfm : 300 % : 330 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1435 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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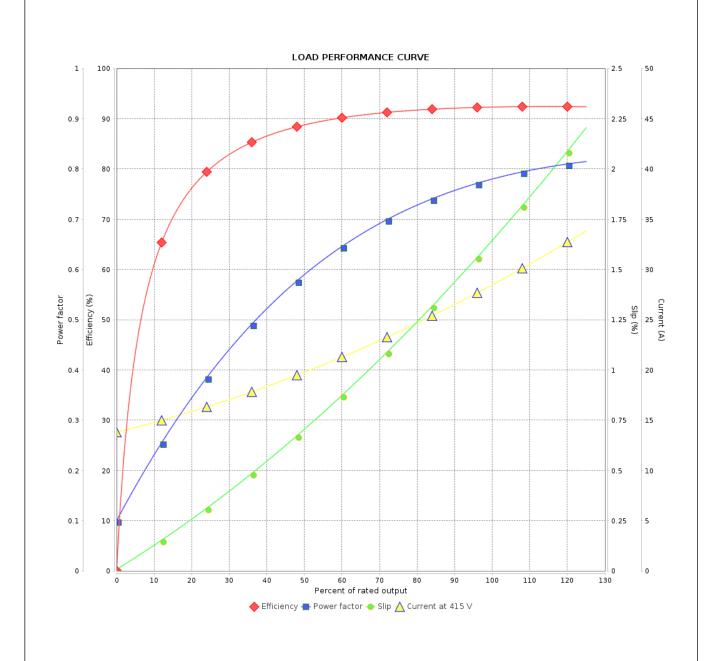


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11169353



Performance	: 4	415 V 50 Hz 4P IE3				
Rated current	: 2	28.6 A	Moment o	f inertia (J)	: 0.1435 kgm²	
LRC	: 6	6.5	Duty cycle	!	: Cont.(S1)	
Rated torque	: 9	9.84 kgfm	Insulation	class	: F	
Locked rotor torqu	e :3	330 %	Service fa	ctor	: 1.15	
Breakdown torque : 360 %		360 %	Temperature rise		: 80 K	
Rated speed	: 1	1475 rpm	Design		: B	
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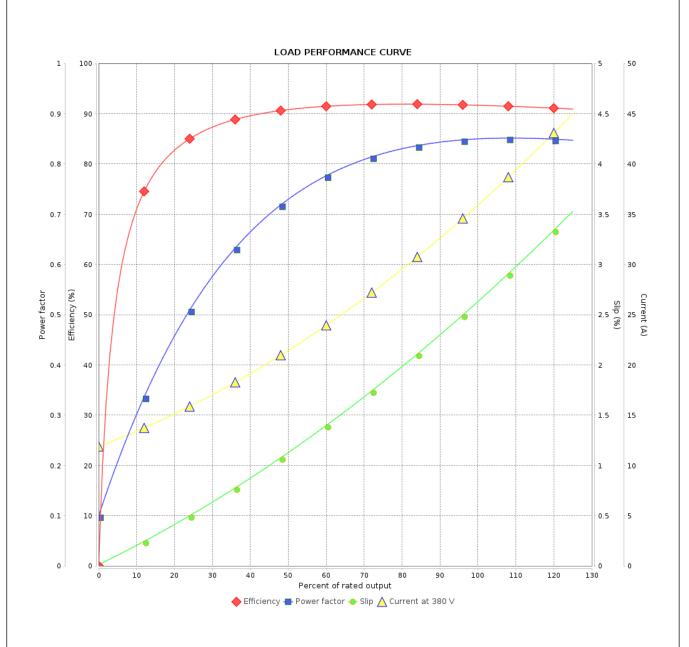


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11169353



Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.1 A : 5.4 : 12.4 kgfm : 229 % : 240 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1435 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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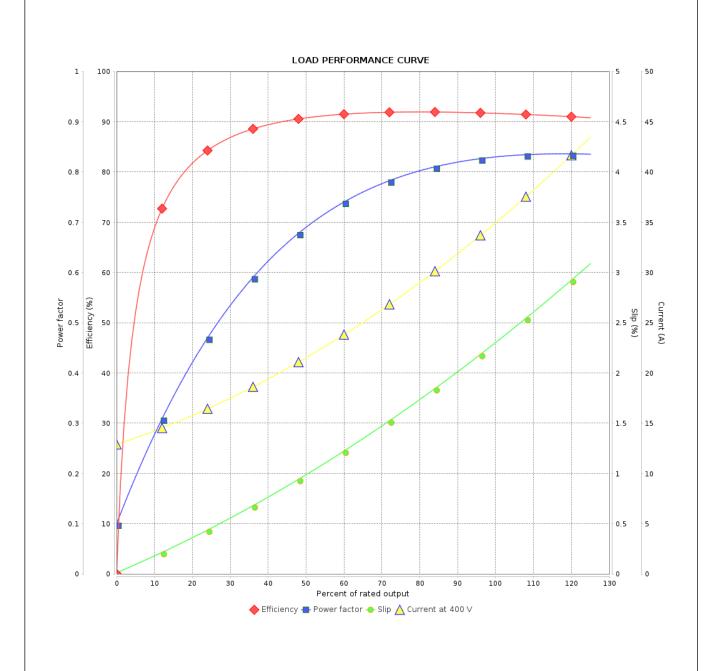


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11169353



Rev.	Changes Summ	ary Performed	Checked	Date	
Rated speed	: 1465 rpm	Design	: B		
Breakdown torque	: 260 %	Temperature rise	: 80 K		
Locked rotor torqu	e : 240 %	Service factor	: 1.15	: 1.15	
Rated torque	: 12.4 kgfm	Insulation class	: F		
LRC	: 5.5	Duty cycle : Cont.(			
Rated current	: 35.1 A	Moment of inertia (J)	: 0.1435 kgm	1 <sup>2</sup>	
Performance	: 400 V 50 Hz 4P IE	2			

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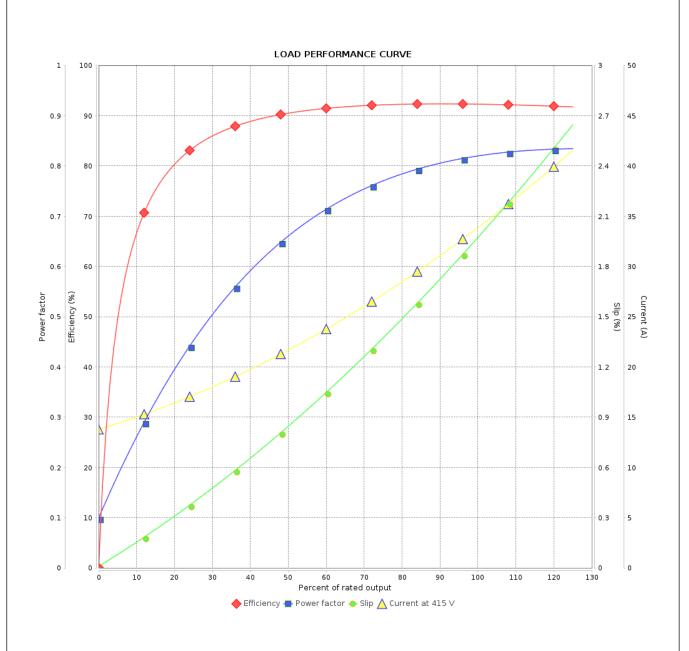


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11169353



Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.0 A : 5.5 : 12.3 kgfm : 260 % : 290 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1435 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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