## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Close Coupled Pump NEMA Product code: 11083242

Premium Efficiency Three-Phase

: 213/5JM Cooling method Frame : IC01 - ODP

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

: 1000 m.a.s.l. Altitude Approx. weight<sup>3</sup> : 58.9 kg

/ tititude		. 1000 111.4.	J.1.	/ \ppi 0/	. weigin	. 0	o.o ng		
Protection degree		: IP21		Moment of inertia (J)			: 0.0243 kgm²		
Design		: B					_		
Output [HP]		15	10	10	10	15	15	15	
Poles		2	2	2	2	2	2	2	
Frequency [Hz]		60	50	50	50	50	50	50	
Rated voltage [V]		230/460	380	400	415	380	400	415	
Rated current [A]		34.8/17.4	14.3	13.7	13.4	21.5	20.6	19.9	
L. R. Amperes [A]		251/125	93.0	95.9	93.8	112	122	127	
LRC [A]		7.2x(Code H)	6.5x(Code J)	7.0x(Code K)	7.0x(Code K)	5.2x(Code F)	5.9x(Code	6.4x(Code	
			,	,	, ,	,	Ġ)	Ġ)	
No load current [A	]	11.6/5.80	5.50	5.60	5.70	5.12	5.90	6.68	
Rated speed [RPN	<b>/</b> []	3515	2930	2935	2935	2885	2900	2910	
Slip [%]		2.36	2.33	2.17	2.17	3.83	3.33	3.00	
Rated torque [kgfm]		3.10	2.47	2.47	2.46	3.79	3.76	3.74	
Locked rotor torque [%]		210	210	229	250	170	190	210	
Breakdown torque [%]		270	280	310	330	229	260	290	
Service factor		1.15	1.15	1.15	1.15	1.15	1.15	1.15	
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K	
Locked rotor time		16s (cold)	12s (cold)	12s (cold)	12s (cold)	12s (cold)	12s (cold)	12s (cold)	
		9s (hot)	7s (hot)	7s (hot)	7s (hot)	7s (hot)	7s (hot)	7s (hot)	
Noise level <sup>2</sup>		69.0 dB(A)							
	25%								
Efficiency (%)	50%	90.2	88.0	88.0	89.0	86.5	86.5	86.5	
Efficiency (%)	75%	91.0	90.0	90.0	90.0	86.5	86.5	87.5	
	100%	91.0	90.5	90.5	90.7	86.5	86.5	87.5	
	25%								
Power Factor	50%	0.73	0.75	0.74	0.70	0.84	0.80	0.76	
FOWEI FACIOI	75%	0.82	0.85	0.83	0.81	0.89	0.86	0.84	
	100%	0.87	0.88	0.87	0.86	0.90	0.89	0.88	

Drive end Non drive end Foundation loads Bearing type 6209 ZZ 6206 ZZ Max. traction

: 171 kgf Without Without Sealing Max. compression : 230 kgf Bearing Seal Bearing Seal

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 38.5A SF 1.15 SFA 44.3A

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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### Three Phase Induction Motor - Squirrel Cage



Customer

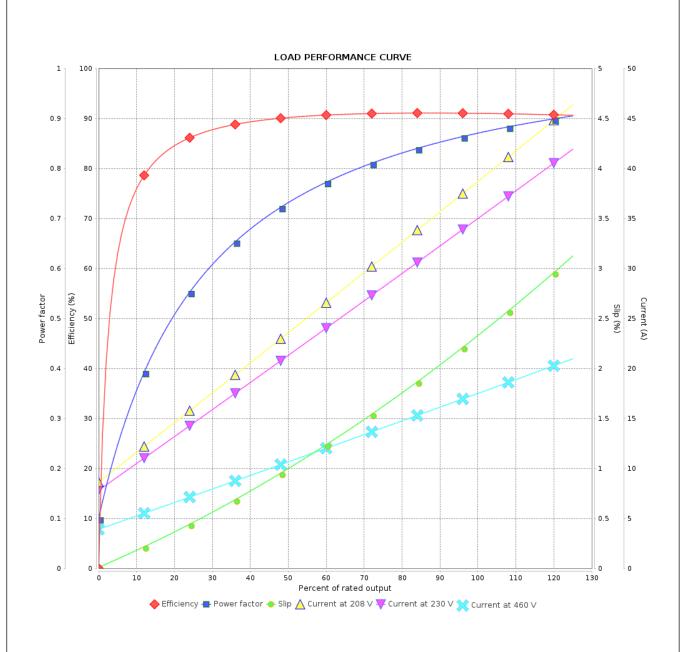
Date

23/10/2024

Product line : Close Coupled Pump NEMA

Premium Efficiency Three-Phase

Product code: 11083242



Performance : 230/460 V 60 Hz 2P Rated current : 34.8/17.4 A Moment of inertia (J) : 0.0243 kgm<sup>2</sup> **LRC** Duty cycle : Cont.(S1) : 7.2 Insulation class Rated torque : 3.10 kgfm : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 3515 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



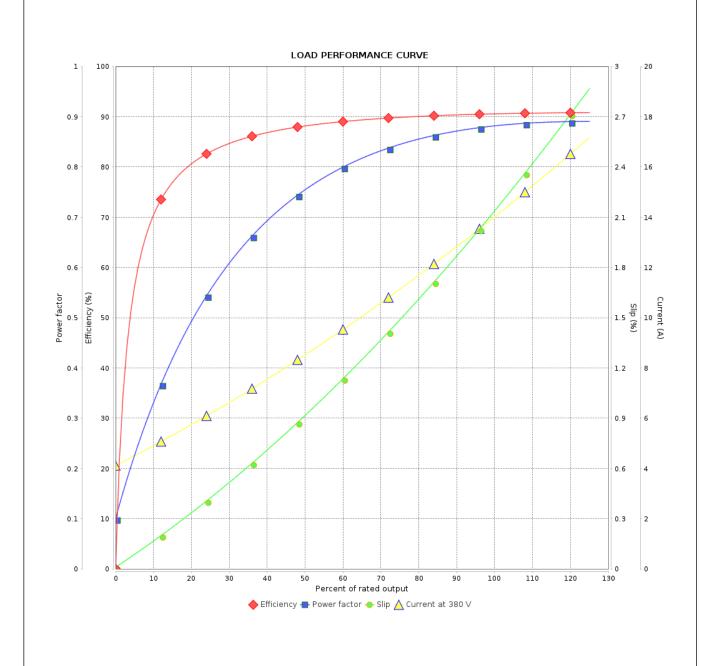
11083242

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Customer :

Product line : Close Coupled Pump NEMA Product code :

Premium Efficiency Three-Phase



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque	: 14.3 A : 6.5 : 2.47 kgfm : 210 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0243 kgm² : Cont.(S1) : F : 1.15	
Breakdown torque Rated speed	: 280 % : 2930 rpm			: 80 K : B	
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## Three Phase Induction Motor - Squirrel Cage

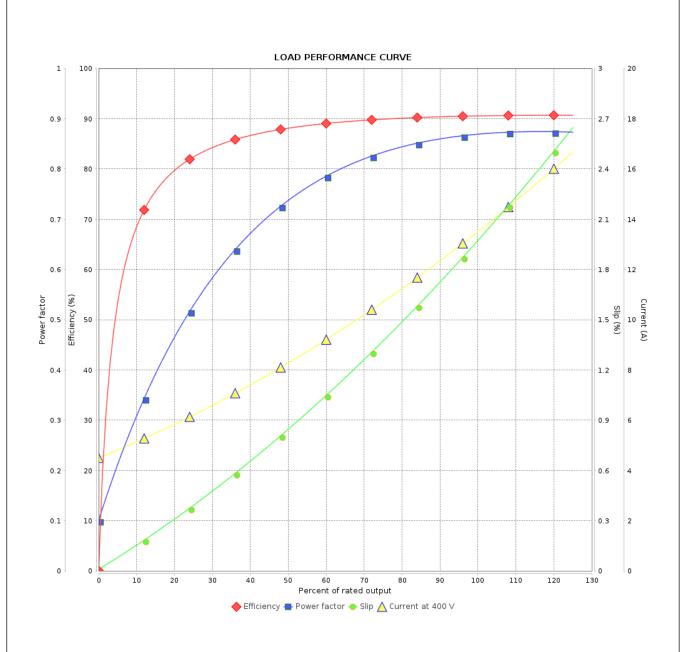


Customer :

Product line : Close Coupled Pump NEMA

Premium Efficiency Three-Phase

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Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.7 A : 7.0 : 2.47 kgfm : 229 % : 310 % : 2935 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0243 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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## Three Phase Induction Motor - Squirrel Cage

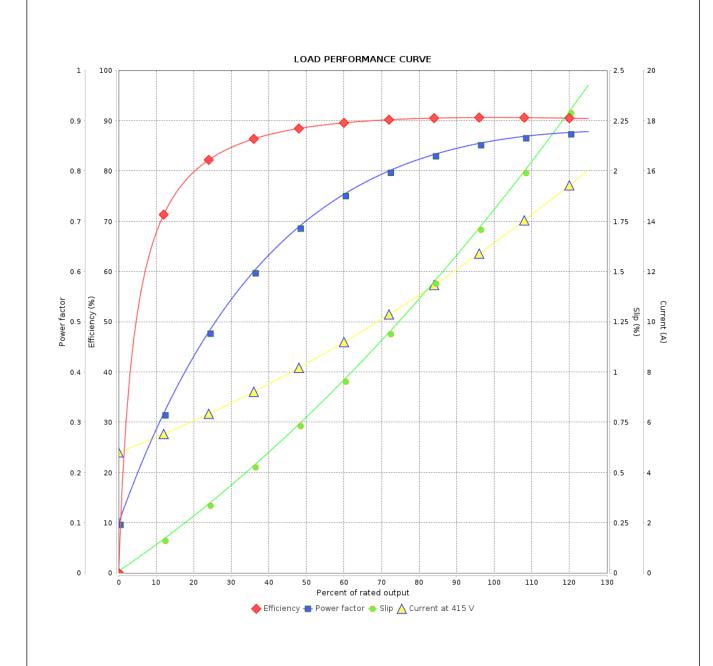


Customer :

Product line : Close Coupled Pump NEMA

Premium Efficiency Three-Phase

Product code: 11083242



Performance	: 415	V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	ue : 250	kgfm % %	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0243 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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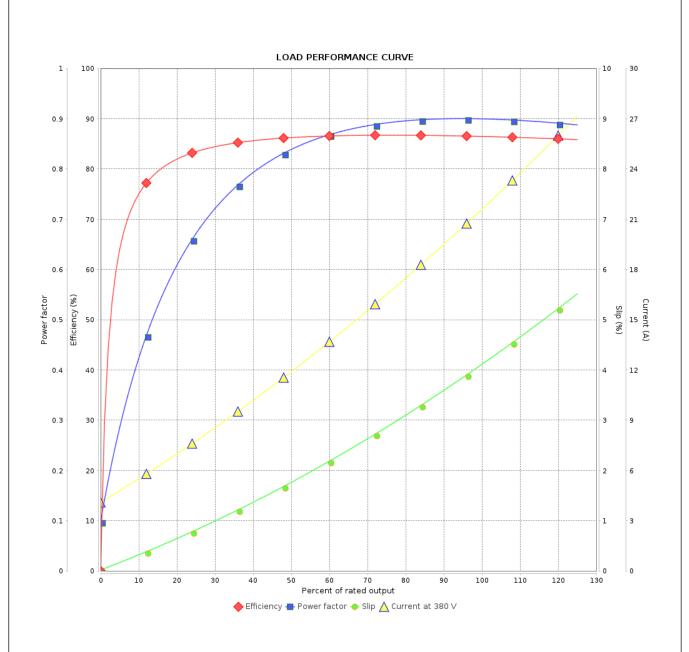
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Product line : Close Coupled Pump NEMA

Premium Efficiency Three-Phase

Product code: 11083242



Performance : 380 V 50 Hz 2P : 0.0243 kgm<sup>2</sup> Rated current : 21.5 A Moment of inertia (J) **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 3.79 kgfm : F Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2885 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage

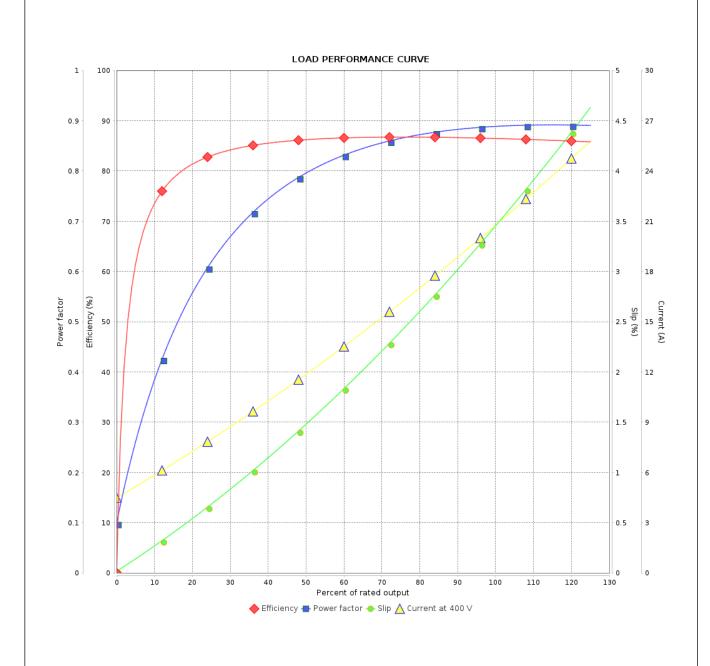


Customer :

Product line : Close Coupled Pump NEMA Pr

Premium Efficiency Three-Phase

Product code: 11083242



Performance : 400 V 50 Hz 2P : 20.6 A Rated current Moment of inertia (J) : 0.0243 kgm<sup>2</sup> **LRC** : 5.9 Duty cycle : Cont.(S1) : 3.76 kgfm : F Rated torque Insulation class Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B

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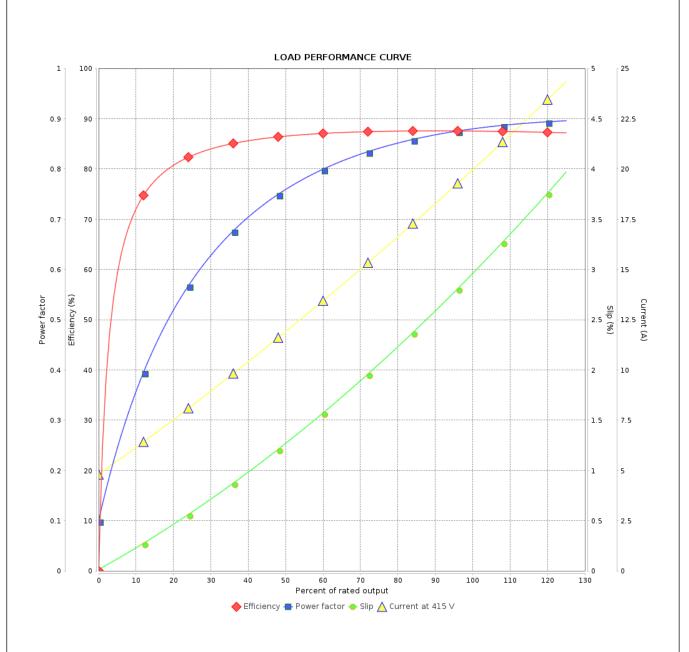
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Customer :

Product line : Close Coupled Pump NEMA
Premium Efficiency Three-Phase

Product code: 11083242



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Performance	: 415 V 50 Hz 2P	1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.9 A : 6.4 : 3.74 kgfm : 210 % : 290 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0243 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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