### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11138439

: 213/5JM Frame

Insulation class : F

Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l.

Protection degree

: IP21

Cooling method : IC01 - ODP Mounting : W-6

Rotation<sup>1</sup> : Both (CW and CCW)

Starting method : Direct On Line Approx. weight<sup>3</sup> : 49.5 kg : 0.0388 kgm<sup>2</sup>

Moment of inertia (J)

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Design		: B						
Output [HP]		7.5	5.5	5.5	5.5	7.5	7.5	7.5
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]		18.1/9.03	8.57	8.57	8.60	11.2	10.9	10.7
L. R. Amperes [A]		135/67.7	71.1	74.6	79.1	72.8	76.3	80.2
LRC [A]		7.5x(Code J)	8.3x(Code K)	8.7x(Code L)	9.2x(Code	6.5x(Code H)	7.0x(Code H)	7.5x(Code J)
					M)			
No load current [A	]	7.60/3.80	3.70	4.10	4.50	3.70	4.10	4.50
Rated speed [RPN	1]	1765	1470	1475	1475	1450	1455	1460
Slip [%]		1.94	2.00	1.67	1.67	3.33	3.00	2.67
Rated torque [kgfr	n]	3.08	2.72	2.71	2.71	3.75	3.74	3.73
Locked rotor torqu	e [%]	200	280	300	330	200	220	240
Breakdown torque	[%]	270	360	400	440	260	290	320
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		21s (cold)	12s (cold)	10s (cold)	10s (cold)	12s (cold)	10s (cold)	10s (cold)
		12s (hot)	7s (hot)	6s (hot)	6s (hot)	7s (hot)	6s (hot)	6s (hot)
Noise level <sup>2</sup>		58.0 dB(A)						
	25%							
Efficiency (%)	50%	89.0	84.7	83.7	82.8	86.5	86.5	86.5
Efficiency (70)	75%	90.2	87.0	86.8	86.6	87.5	87.5	87.5
	100%	91.0	88.6	88.6	88.6	86.5	87.7	88.5
	25%							
Power Factor	50%	0.68	0.57	0.53	0.50	0.68	0.64	0.60
1 OWCI I actor	75%	0.79	0.71	0.67	0.63	0.80	0.76	0.73
	100%	0.84	0.80	0.76	0.73	0.86	0.83	0.81

Max. traction

Max. compression

Drive end Non drive end Foundation loads Bearing type 6209 ZZ 6206 ZZ Sealing

Without Without

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Bearing Seal Bearing Seal

Notes

USABLE @208V 20.0A SF 1.15 SFA 23.0A

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.

: 196 kgf

: 245 kgf

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### Three Phase Induction Motor - Squirrel Cage

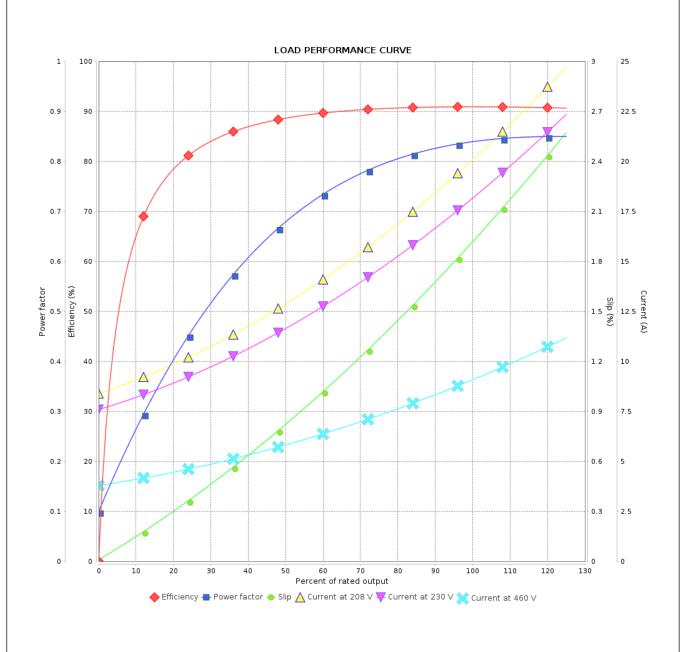


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11138439



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 18.1/9.03 A : 7.5 : 3.08 kgfm : 200 % : 270 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0388 kgm : Cont.(S1) : F : 1.15 : 80 K : B	: F : 1.15 : 80 K	
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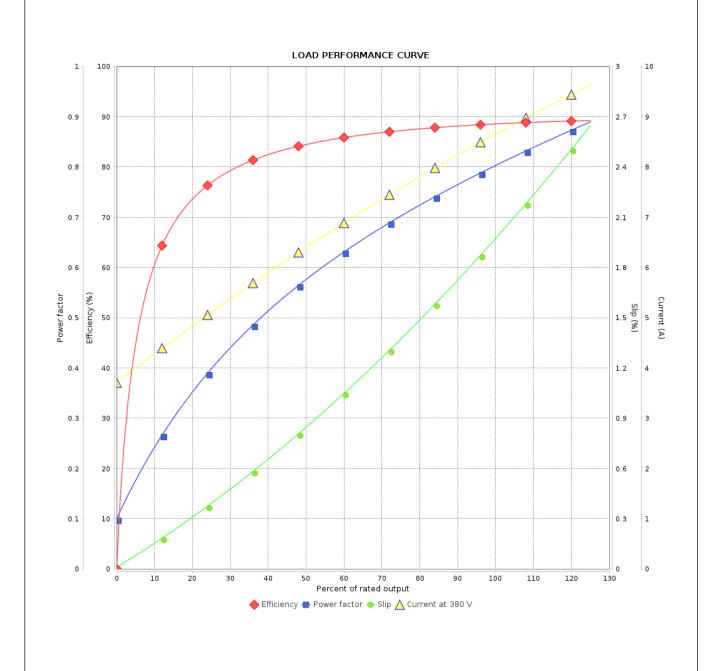
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 8.	: 8.57 A		Moment of inertia (J)		2
LRC	: 8.	.3	Duty cycle	)	: Cont.(S1)	
Rated torque	: 2	.72 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 28	80 %	Service fa	ctor	: 1.15	
-		60 %	Temperature rise		: 80 K	
Rated speed	: 14	470 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage

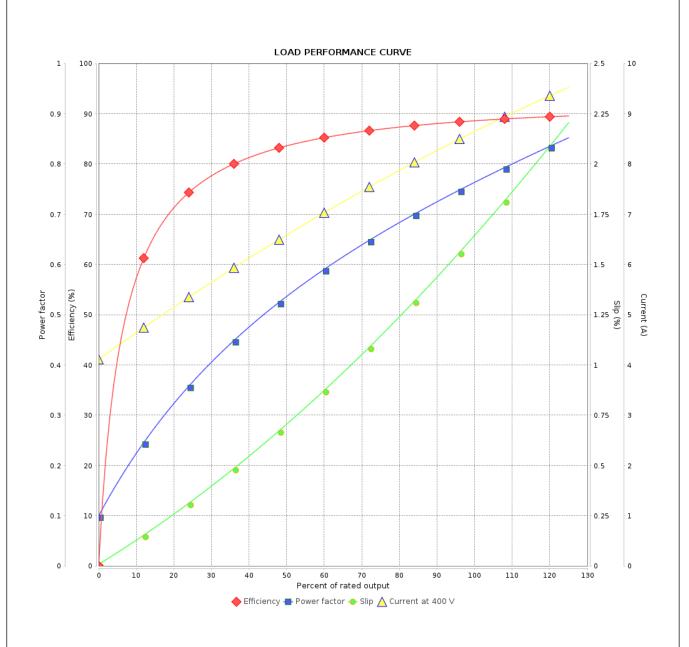


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11138439



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0388 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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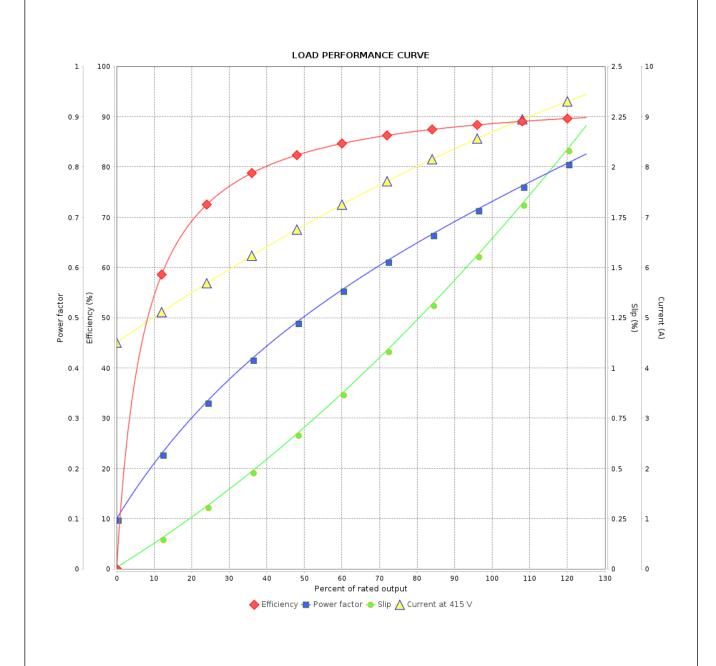
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	Rated current : 8.60 A			Moment of inertia (J)		2
LRC	: 9.	· <del>-</del>	Duty cycle	9	: Cont.(S1)	
Rated torque	: 2.	.71 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 33	30 %	Service fa	octor	: 1.15	
Breakdown torque :		40 %	Temperati	Temperature rise		
Rated speed	: 14	475 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

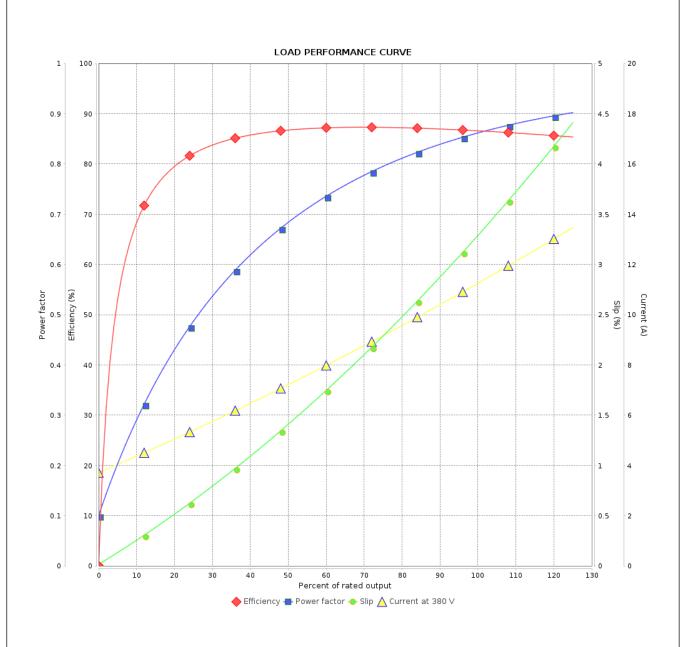
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Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11138439



Performance : 380 V 50 Hz 4P IE1 : 11.2 A : 0.0388 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 3.75 kgfm : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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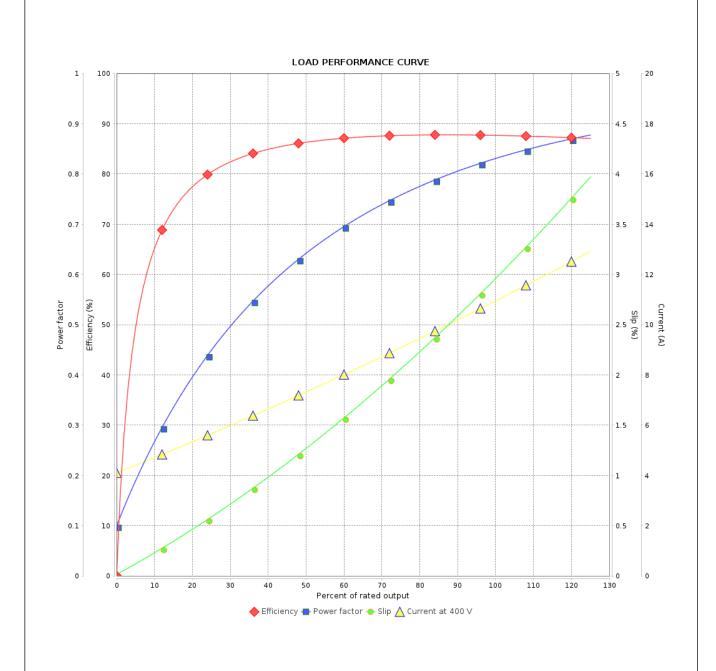
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase



Performance	: 4	00 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: 7 : 3 que : 2 ue : 2	74 kgfm Insulation class 0 % Service factor 0 % Temperature rise		: 0.0388 kgm² : Cont.(S1) : F : 1.15 : 80 K		
Rated speed Rev.	: 1	455 rpm  Changes Summary	Design	Performed	: B Checked	Date
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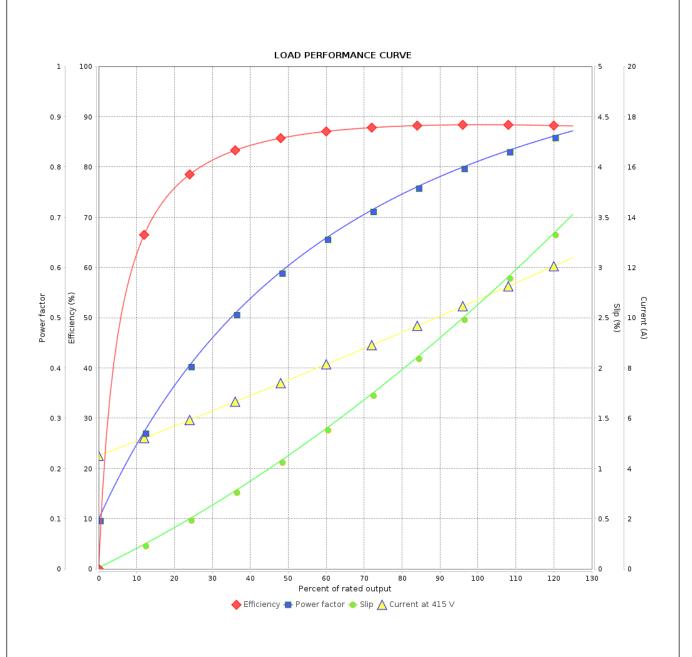
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current : 10		0.7 A	Moment of inertia (J)		: 0.0388 kgm²	
LRC	: 7	.5	Duty cycle	9	: Cont.(S1)	
Rated torque	: 3	.73 kgfm	Insulation class		: F	
Locked rotor tord	que : 2	40 %	Service fa	actor	: 1.15	
Breakdown torque : 320		20 %	Temperature rise		: 80 K	
Rated speed	: 1	460 rpm	Design		: B	
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