DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Close Coupled Pump NEMA Product code: 11168186

Premium Efficiency Three-Phase

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

Insulation class Mounting : F : F-1 Rotation¹

Duty cycle : Cont.(S1) : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight³ : 57.4 kg

Protection degree	•	: IP21		Momer	nt of inertia (J)	: 0	.0504 kgm²	
Design		: B						
Output [HP]		10	7.5	7.5	7.5	10	10	10
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]		24.7/12.4	11.5	11.4	11.4	15.1	14.5	14.2
L. R. Amperes [A]		161/80.4	82.9	87.5	93.2	78.7	84.3	89.6
LRC [A]		6.5x(Code H)	7.2x(Code J)	7.7x(Code K)	8.2x(Code K)	5.2x(Code F)	5.8x(Code G)	6.3x(Code H)
No load current [A]		10.9/5.45	5.50	6.00	6.50	5.50	6.00	6.50
Rated speed [RPM]	1765	1470	1475	1475	1450	1455	1460
Slip [%]		1.94	2.00	1.67	1.67	3.33	3.00	2.67
Rated torque [kgfm		4.11	3.70	3.69	3.69	5.01	4.99	4.97
Locked rotor torque		210	220	260	280	170	180	200
Breakdown torque	[%]	290	290	320	360	210	229	250
Service factor		1.15	1.15	1.15	1.15	1.00	1.00	1.15
Temperature rise		105 K	105 K	105 K	105 K	105 K	105 K	105 K
Locked rotor time		10s (cold)	9s (cold)	9s (cold)	9s (cold)	9s (cold)	9s (cold)	9s (cold)
		6s (hot)	5s (hot)	5s (hot)	5s (hot)	5s (hot)	5s (hot)	5s (hot)
Noise level ²		59.0 dB(A)						
	25%							
Efficiency (%)	50%	90.2	85.1	85.1	85.0	87.5	87.7	88.2
Lindicitoy (70)	75%	91.0	87.5	88.0	88.4	87.5	88.5	88.7
	100%	91.7	89.6	89.6	89.7	87.5	88.7	89.5
	25%							
Power Factor	50%	0.64	0.59	0.55	0.51	0.69	0.65	0.61
1 OWELL ACIOL	75%	0.76	0.72	0.69	0.65	0.80	0.77	0.75
	100%	0.83	0.81	0.78	0.75	0.86	0.84	0.82

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

: 201 kgf Without Without Sealing Max. compression : 258 kgf Bearing Seal Bearing Seal

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes USABLE @208V 27.0A SF 1.15 SFA 31.0A

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	23/10/2024			1/8	

Three Phase Induction Motor - Squirrel Cage



Customer

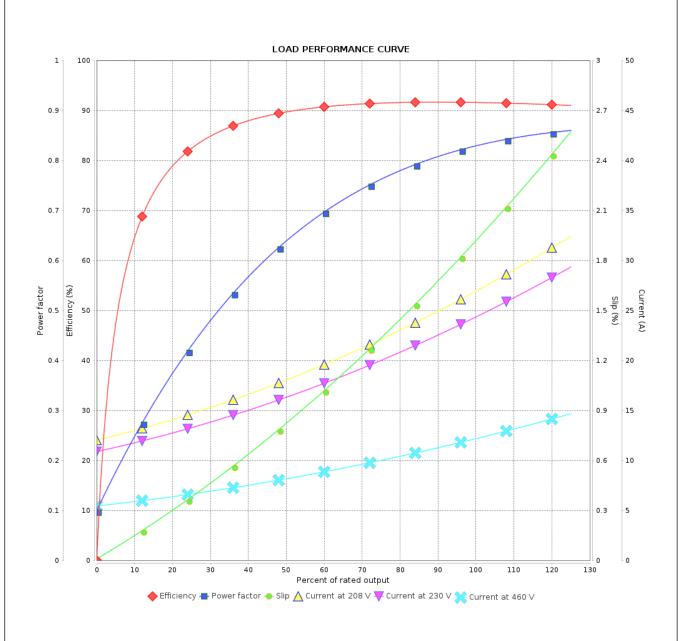
Checked by

Date

23/10/2024

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

Product code: 11168186



Performance		: 230/460 V 60 Hz	4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	jue je	: 24.7/12.4 A : 6.5 : 4.11 kgfm : 210 % : 290 % : 1765 rpm	Du Ins Se Te	oment of uty cycle sulation ervice fac mperatu esign	class ctor	: 0.0504 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
Rev.		Changes Sum	mary		Performed	Checked	Date
Performed by							

Page

2/8

Revision

Three Phase Induction Motor - Squirrel Cage



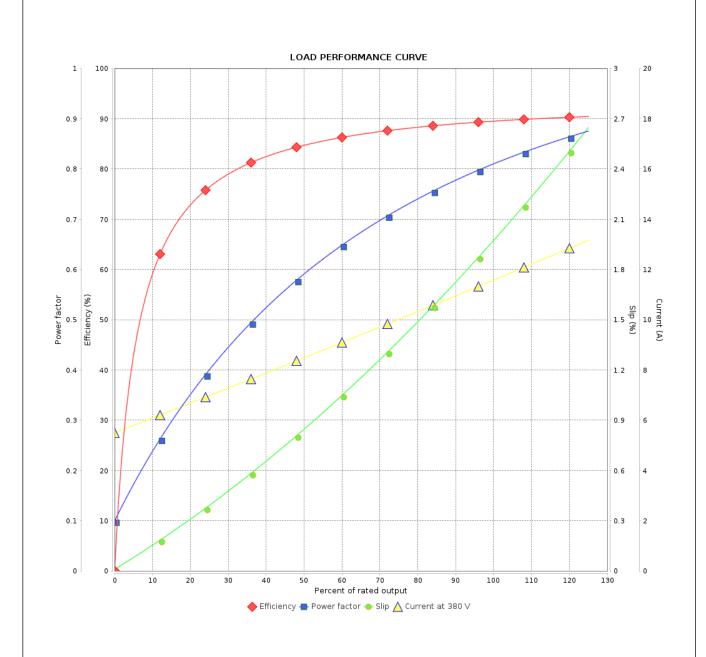
Customer

Checked by

Product line : Close Coupled Pump NEMA

Premium Efficiency Three-Phase

Product code: 11168186



Performance		: 380 V 50 Hz 4P IE	E 3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 11.5 A : 7.2 : 3.70 kgfm : 220 % : 290 % : 1470 rpm	Moment Duty cycl Insulation Service f Tempera Design	n class actor	: 0.0504 kgm ² : Cont.(S1) : F : 1.15 : 105 K : B	
Rev.		Changes Sumn	nary	Performed	Checked	Date
Performed by						

Page

3/8

Revision

Three Phase Induction Motor - Squirrel Cage

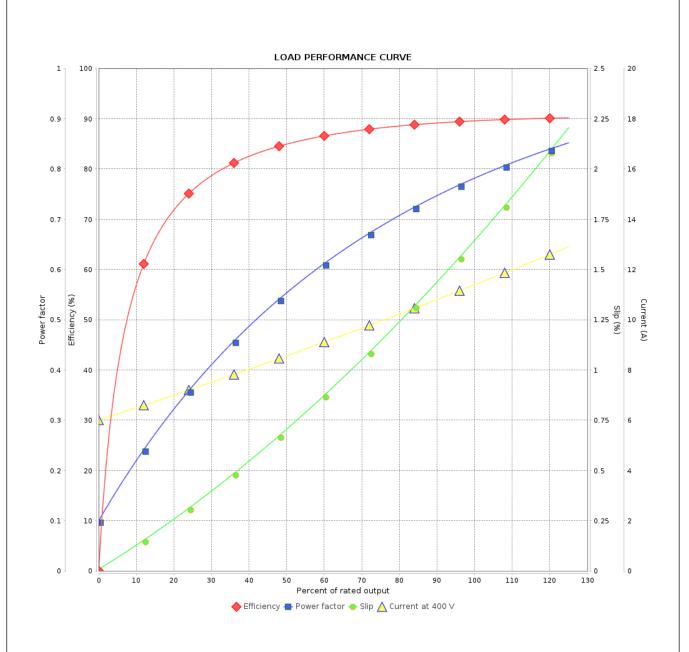


Customer :

Product line : Close Coupled Pump NEMA

Premium Efficiency Three-Phase

Product code: 11168186



				
Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.4 A : 7.7 : 3.69 kgfm : 260 % : 320 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0504 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	•
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

4/8

23/10/2024

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

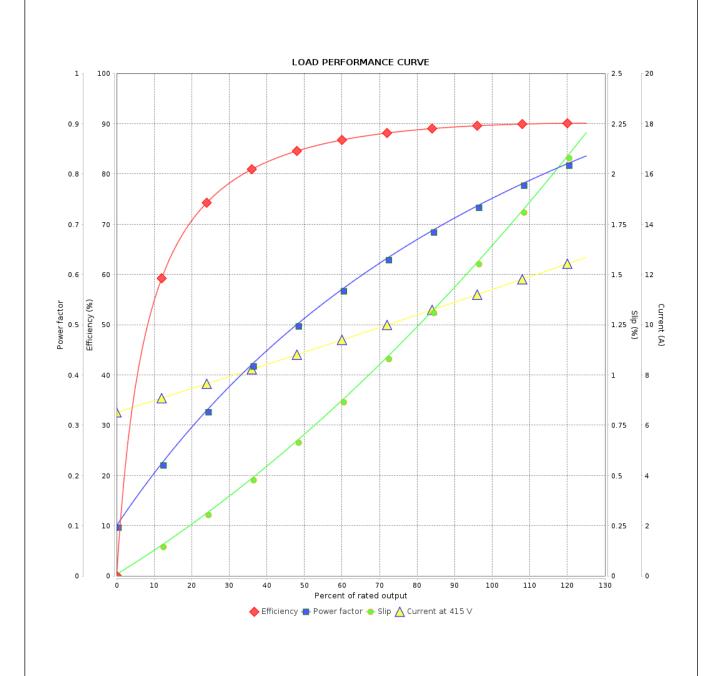
Checked by

Date

23/10/2024

Product line : Close Coupled Pump NEMA Product code : 11168186

Premium Efficiency Three-Phase



Rated current LRC Rated torque Locked rotor torque	: 11.4 A : 8.2 : 3.69 kgfm	Moment of inertia (J) Duty cycle Insulation class	: 0.0504 kgm² : Cont.(S1) : F	
Breakdown torque Rated speed	: 280 % : 360 % : 1475 rpm	Service factor Temperature rise Design	: F : 1.15 : 105 K : B	
Rev.	Changes Summary	Performed	Checked	Date

Page

5/8

Revision

Three Phase Induction Motor - Squirrel Cage

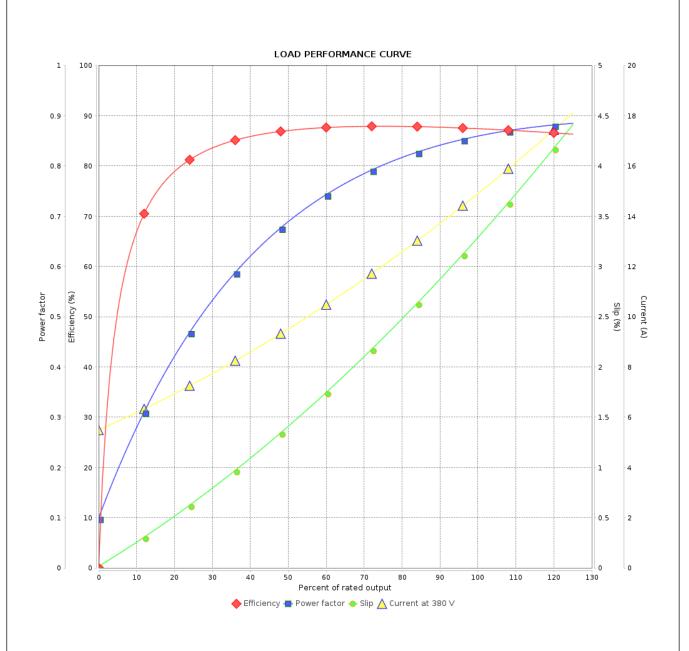


Customer :

Product line : Close Coupled Pump NEMA

Premium Efficiency Three-Phase

Product code: 11168186



Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 15.1 A : 5.2 : 5.01 kgfm : 170 % : 210 %	Duty cycle Insulation Service fa Temperati	class ctor	: 0.0504 kgm² : Cont.(S1) : F : 1.00 : 105 K	
Rated speed	: 1450 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/8

23/10/2024

Date

Three Phase Induction Motor - Squirrel Cage

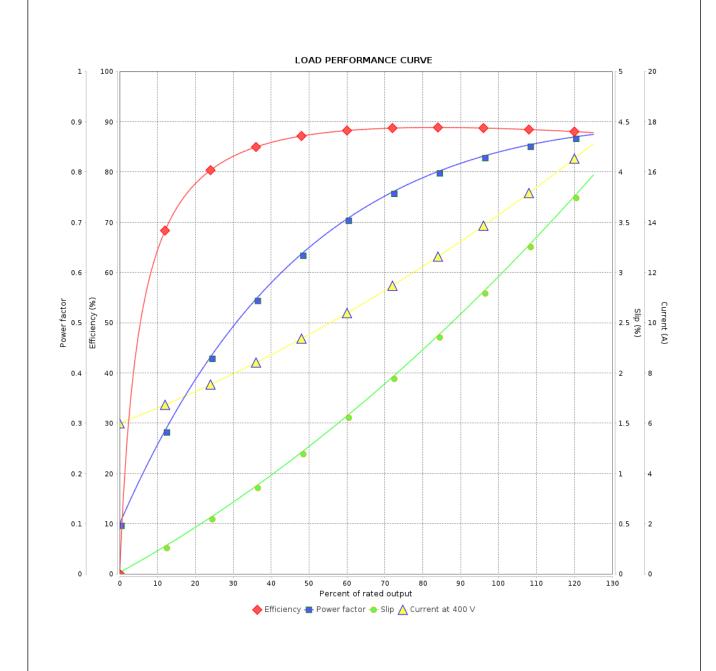


Customer :

Product line : Close Coupled Pump NEMA

Premium Efficiency Three-Phase

Product code: 11168186



Performance : 400 V 50 Hz 4P IE2 : 14.5 A Rated current Moment of inertia (J) : 0.0504 kgm² **LRC** : 5.8 Duty cycle : Cont.(S1) : 4.99 kgfm : F Rated torque Insulation class Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1455 rpm Design : B

rtated speed	. !-	100 Ipili	Design		. 0	
Rev.	Changes Summary		Performed	Checked	Date	
Darfarrandhu						
Performed by						
Checked by					Page	Revision
Date	23/10/2024				7/8	

Three Phase Induction Motor - Squirrel Cage



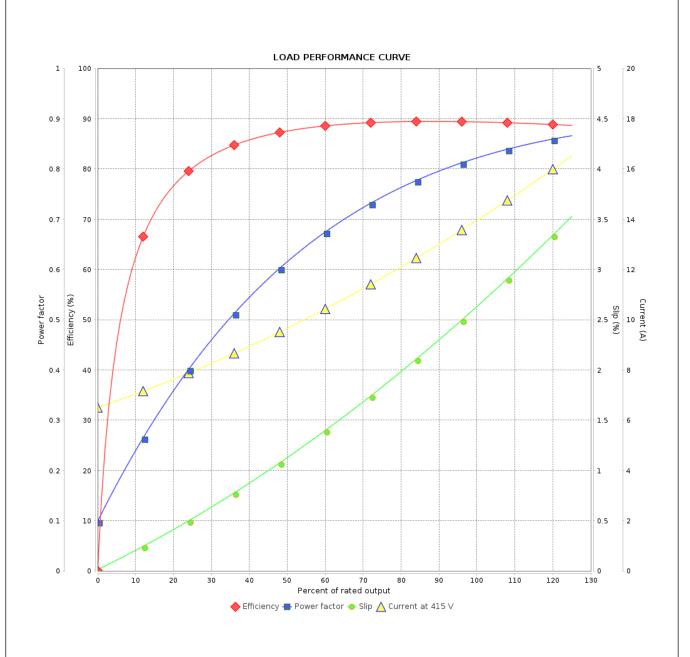
Customer :

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

Product code:

11168186

8/8



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.2 A : 6.3 : 4.97 kgfm : 200 % : 250 % : 1460 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 0.0504 kgm ² : Cont.(S1) : F : 1.15 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

23/10/2024

Date