DATA SHEET

Three Phase Induction Motor - Squirrel Cage



G)

14.0

Customer

Frame

Insulation class

No load current [A]

Ambient temperature

Duty cycle

Altitude

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

: 284JM

: Cont.(S1)

G)

25.8/12.9

: -20°C to +40°C

: 1000 m.a.s.l.

: F

Product code: 11833190

Cooling method : IC01 - ODP

Mounting : F-1

14.0

Rotation¹ : Both (CW and CCW)

11.5

12.5

Starting method : Direct On Line Approx. weight³ : 144 kg

Moment of inertia (J) : 0.0795 kgm²

Protection degree : IP23

Design : B

Output [HP]	30	25	25	25	30	30	30
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]	70.0/35.0	35.0	34.0	33.6	42.4	40.9	40.2
L. R. Amperes [A]	441/221	231	238	225	225	237	261
LRC [A]	6.3x(Code	6.6x(Code	7.0x(Code H)	6.7x(Code H)	5.3x(Code E)	5.8x(Code F)	6.5x(Cod

13.0

G)

12.0

Rated speed [RPM	1]	3550	2945	2950	2955	2925	2935	2945
Slip [%]		1.39	1.83	1.67	1.50	2.50	2.17	1.83
Rated torque [kgfn	ո]	6.13	6.16	6.15	6.14	7.44	7.42	7.39
Locked rotor torqu	e [%]	180	170	190	200	160	180	200
Breakdown torque	[%]	260	240	260	270	180	200	220
Service factor		1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K						
Locked rotor time		18s (cold)	23s (cold)	21s (cold)	19s (cold)	23s (cold)	21s (cold)	19s (cold)
		10s (hot)	13s (hot)	12s (hot)	11s (hot)	13s (hot)	12s (hot)	11s (hot)
Noise level ²		72.0 dB(A)						
	25%							
□ff: -: · · (0/)	50%	90.2	89.7	89.8	89.8	90.8	90.0	91.0

Efficiency (%) 75% 91.7 90.7 90.8 90.8 90.8 90.2 91.0 100% 91.7 92.4 92.4 89.5 90.2 92.4 90.7 25% 50% 0.73 0.75 0.70 0.66 0.80 0.77 0.71 Power Factor 75% 0.82 0.83 0.80 0.77 0.86 0.83 0.81 100% 0.86 0.87 0.85 0.83 0.88 0.86 0.84

Non drive end Drive end Bearing type 6311 Z C3 6211 Z C3 Sealing

Without Without

Bearing Seal Bearing Seal

20000 h Lubrication interval 20000 h Lubricant amount 18 g 11 g Lubricant type Mobil Polyrex EM

Foundation loads

Max. traction : 160 kgf Max. compression : 304 kgf

Notes

USABLE @208V 76.7A SF 1.15 SFA 88.2A

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	14/01/2024			1/8	

Three Phase Induction Motor - Squirrel Cage

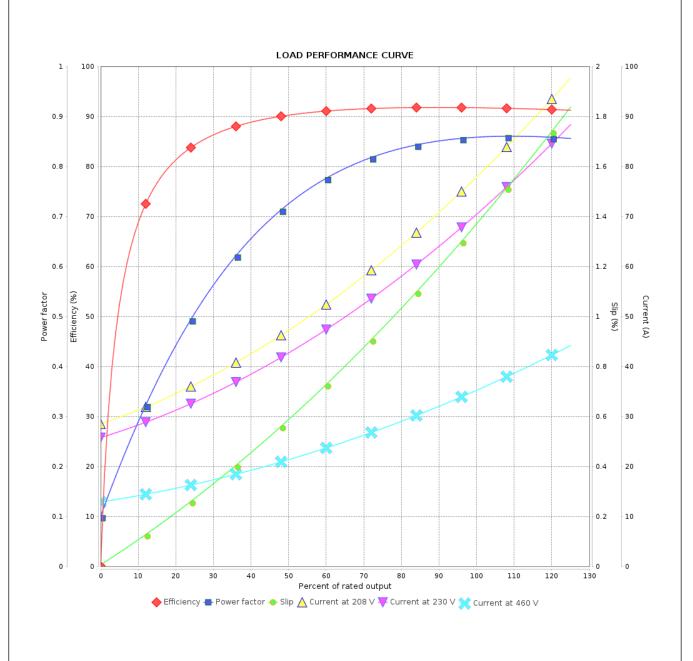


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11833190



Performance	: 230/460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 70.0/35.0 A : 6.3 : 6.13 kgfm : 180 % : 260 % : 3550 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0795 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

2/8

14/01/2024

Date

Three Phase Induction Motor - Squirrel Cage

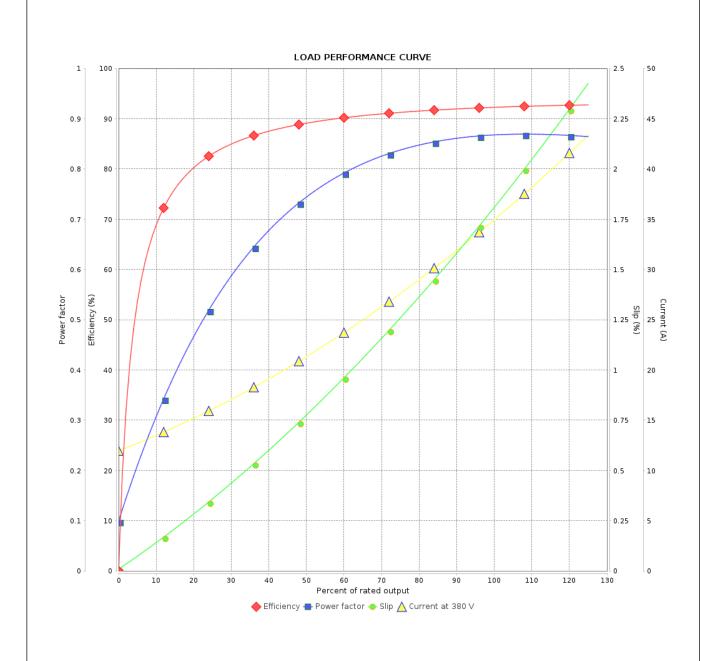


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11833190



Performance	: 3	880 V 50 Hz 2P IE3				
Rated current	: 3	35.0 A	Moment o	f inertia (J)	: 0.0795 kgm²	
LRC	: 6	6.6	Duty cycle	}	: Cont.(S1)	
Rated torque	: 6	6.16 kgfm	Insulation	class	:F	
Locked rotor torqu	ue : 1	170 %	Service fa	ctor	: 1.15	
Breakdown torque	e : 2	240 %	Temperature rise		: 80 K	
Rated speed	: 2	2945 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/01/2024				3/8	

Three Phase Induction Motor - Squirrel Cage



Customer :

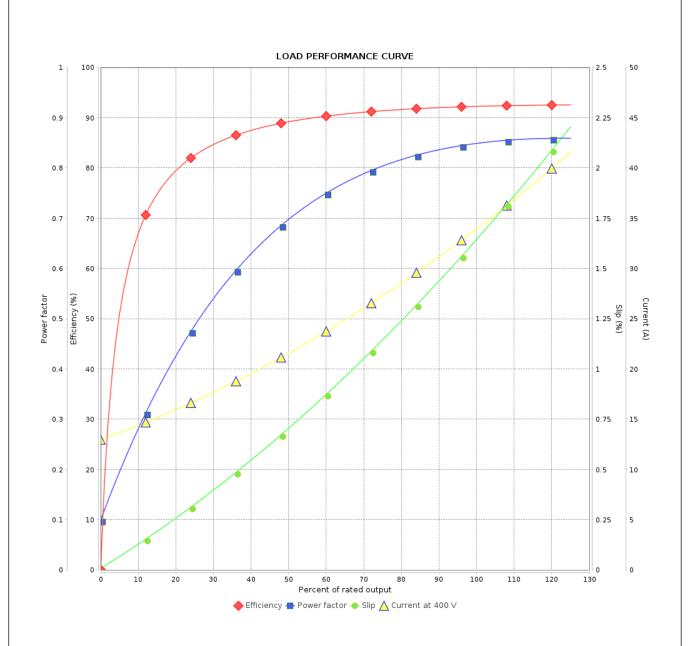
Date

14/01/2024

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11833190



Performance : 400 V 50 Hz 2P IE3 : 0.0795 kgm² Rated current : 34.0 A Moment of inertia (J) **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 6.15 kgfm : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

4/8

Three Phase Induction Motor - Squirrel Cage

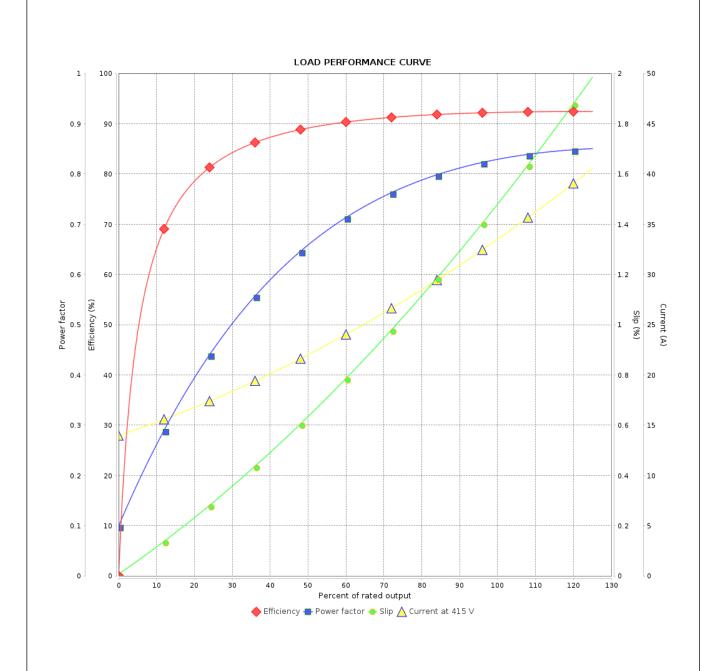


Customer

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11833190



Performance	: 4	115 V 50 Hz 2P IE3				
Rated current	nt : 33.6 A Moment of		f inertia (J)	: 0.0795 kgm²	2	
LRC	: 6	3.7	Duty cycle	Duty cycle		
Rated torque	: 6	6.14 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 2	200 %	Service fa	Service factor		
Breakdown torque	: 2	270 %	Temperati	Temperature rise		
Rated speed	: 2	2955 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/01/2024				5/8	

Three Phase Induction Motor - Squirrel Cage

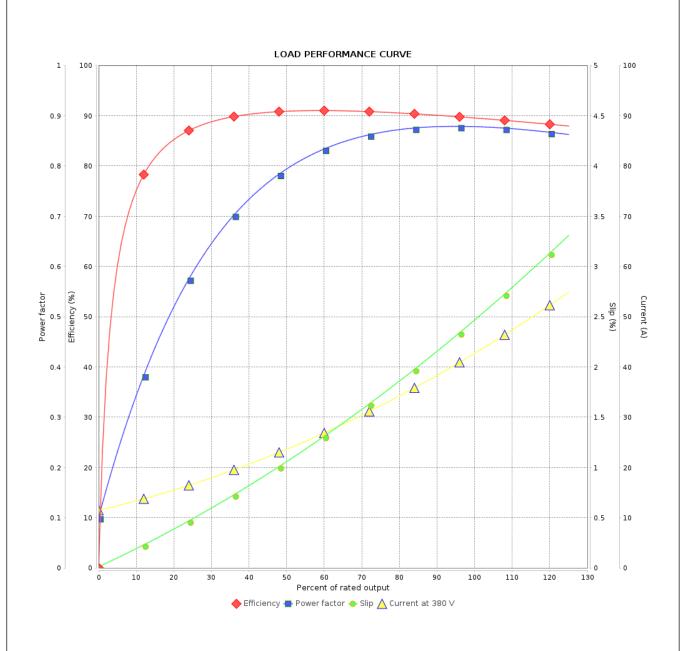


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11833190



Performance	: 380 V 50 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 42.4 A : 5.3 : 7.44 kgfm : 160 % : 180 % : 2925 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0795 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

6/8

14/01/2024

Date

Three Phase Induction Motor - Squirrel Cage

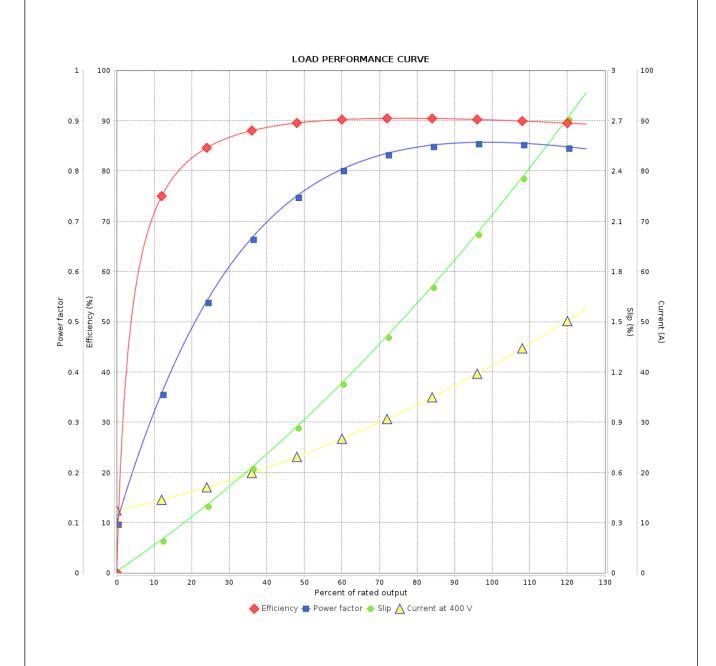


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11833190



Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.9 A : 5.8 : 7.42 kgfm : 180 % : 200 % : 2935 rpm	Moment of Duty cycle Insulation of Service fact Temperature Design	class tor	: 0.0795 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary	,	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

7/8

14/01/2024

Date

Three Phase Induction Motor - Squirrel Cage



Customer

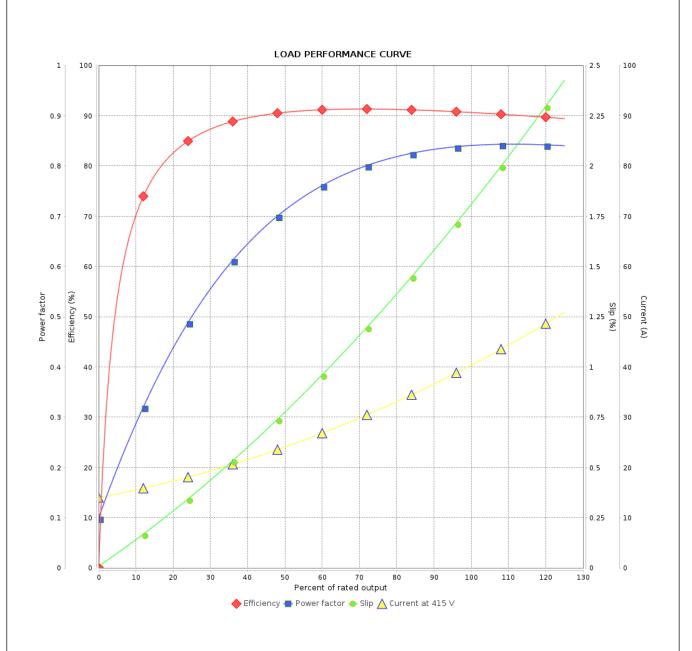
Date

14/01/2024

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11833190



Performance : 415 V 50 Hz 2P IE1 : 0.0795 kgm² Rated current : 40.2 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 7.39 kgfm : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page 8/8