DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Frame

Insulation class

Ambient temperature

Breakdown torque [%]

Duty cycle

Altitude

Product line : Close Coupled Pump NEMA Premium Product code:

Efficiency Three-Phase

: 213/5JM

: 1000 m.a.s.l.

310

Cooling method : IC01 - ODP

11168183

Mounting : F-1

: Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Starting method : Direct On Line

430

240

270

300

Approx. weight³ : 58.7 kg Moment of inertia (J) : 0.0206 kgm²

Protection degree : IP21

: F

Design : B

Output [HP]	10	7.5	7.5	7.5	10	10	10
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]	23.8/11.9	10.6	10.3	10.2	14.1	13.6	13.1
I R Amperes [A]	171/85 7	83.7	90.6	96.9	80.4	87.0	90.4

LRC [A]	7.2x(Code H)	7.9x(Code J)	8.8x(Code K)	9.5x(Code L)	5.7x(Code F)	6.4x(Code	6.9x(Code H
						G)	
No load current [A]	7.00/3.50	3.40	3.60	3.80	3.40	3.60	3.80
Rated speed [RPM]	3540	2940	2950	2955	2910	2920	2930
Slip [%]	1.67	2.00	1.67	1.50	3.00	2.67	2.33
Rated torque [kgfm]	2.05	1.85	1.85	1.84	2.49	2.49	2.48
Locked rotor torque [%]	220	229	260	290	170	190	210

390

Service factor 1.15 1.15 1.15 1.15 1.15 1.15 1.15 Temperature rise 80 K Locked rotor time 23s (cold) 27s (cold) 27s (cold) 25s (cold) 23s (cold) 27s (cold) 25s (cold) 15s (hot) 15s (hot) 14s (hot) 13s (hot) 15s (hot) 14s (hot) 13s (hot) Noise level² 68.0 dB(A) 25% 50% 89.5 87.0 86.2 87.0 88.5 88.5 88.5 Efficiency (%) 75% 90.2 88.3 88.3 88.88 88.5 88.5 89.5

100% 90.2 89.2 89.2 89.6 89.5 89.5 90.2 25% 50% 0.73 0.71 0.68 0.65 0.80 0.77 0.74 Power Factor 75% 0.83 0.82 0.80 0.77 0.87 0.85 0.84 100% 0.88 0.88 0.86 0.84 0.90 0.89 0.88

Drive end Non drive end Foundation loads Bearing type 6209 ZZ 6206 ZZ Max. traction : 108 kgf : 167 kgf

340

Sealing Without Without Max. compression Bearing Seal Bearing Seal

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

USABLE @208V 26.2A SF 1.15 SFA 30.2A

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.

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Customer :

Checked by

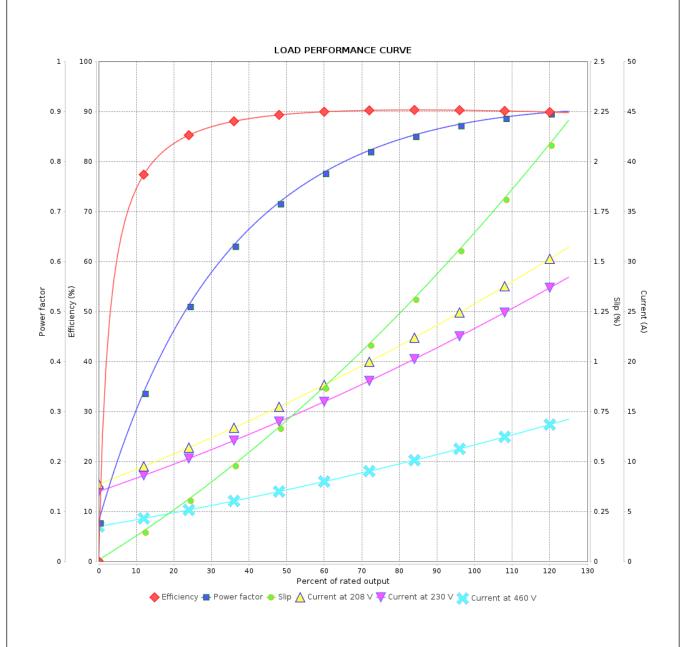
Date

14/01/2024

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11168183



Performance : 230/460 V 60 Hz 2P : 0.0206 kgm² Rated current : 23.8/11.9 A Moment of inertia (J) **LRC** : 7.2 Duty cycle : Cont.(S1) : 2.05 kgfm Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 3540 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

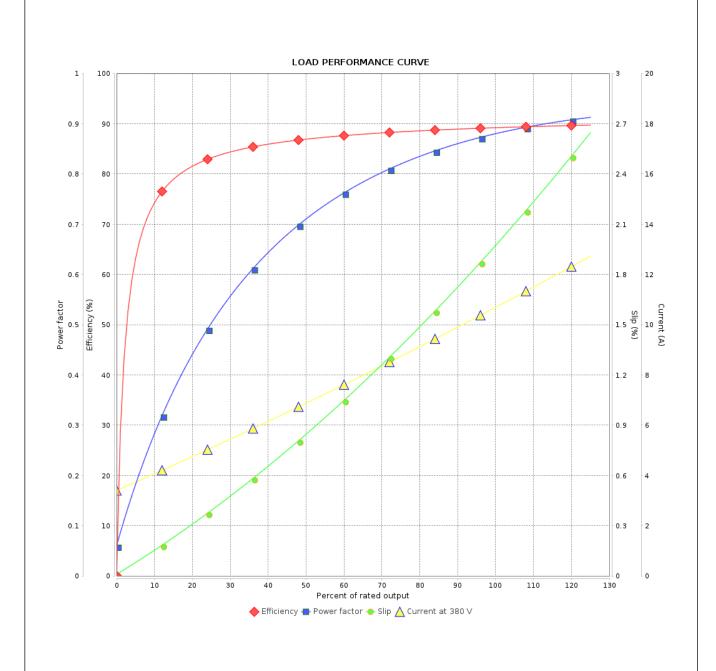


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11168183



Performance : 380 V 50 Hz 2P IE3 Rated current : 10.6 A Moment of inertia (J) : 0.0206 kgm² **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 1.85 kgfm Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B Date Rev. Performed Checked **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

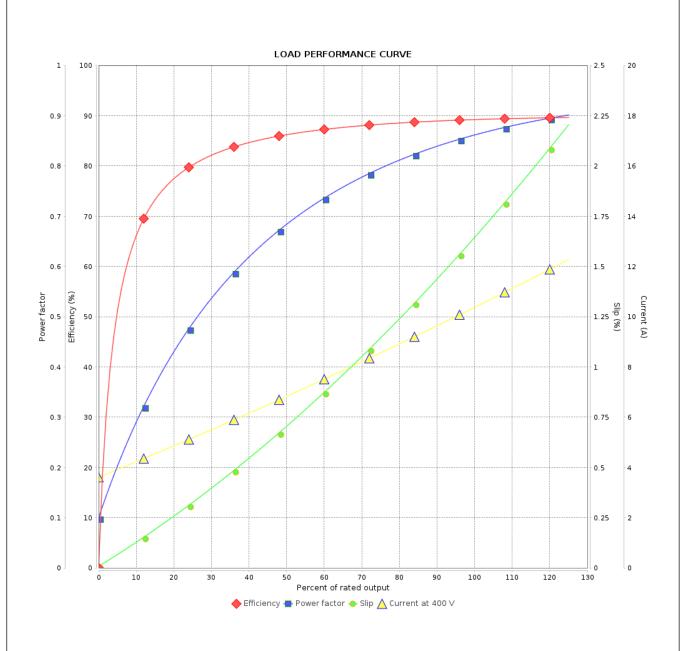


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11168183



Performance	: 4	00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torq	: 8 : 1 ue : 2	: 8.8 Duty cycle : 1.85 kgfm Insulation cl. : 260 % Service factor		Insulation class Service factor		2
Breakdown torque Rated speed	ue : 390 % : 2950 rpm		Temperature rise Design		: 80 K : B	
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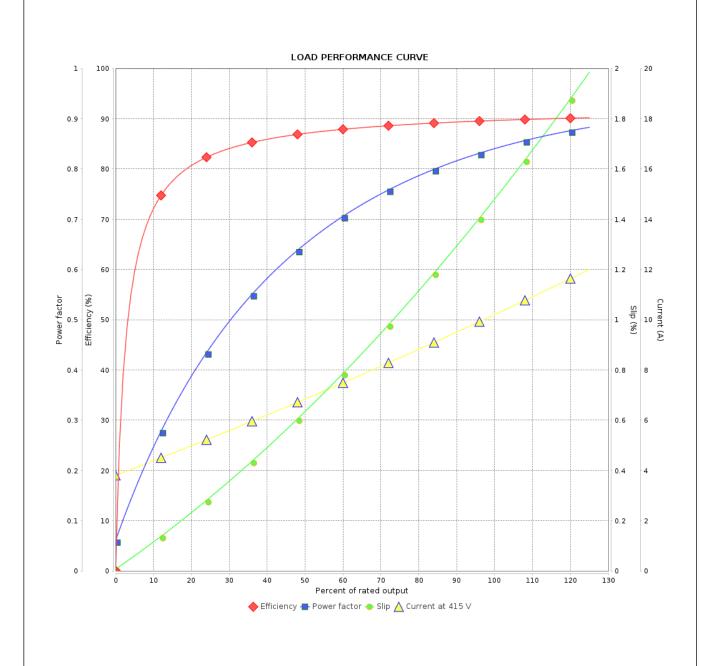


Customer

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11168183



Performance		15 V 50 Hz 2P IE3				
Rated current	: 1	0.2 A	.2 A Moment of inertia (J)		: 0.0206 kgm²	
LRC	: 9	.5	Duty cycle	;	: Cont.(S1)	
Rated torque : 1.		.84 kgfm	fm Insulation class		: F	
Locked rotor torqu	ie : 2	90 %	Service factor		: 1.15	
Breakdown torque		30 %	Temperature rise		: 80 K	
Rated speed	: 2	955 rpm	Design		: B	
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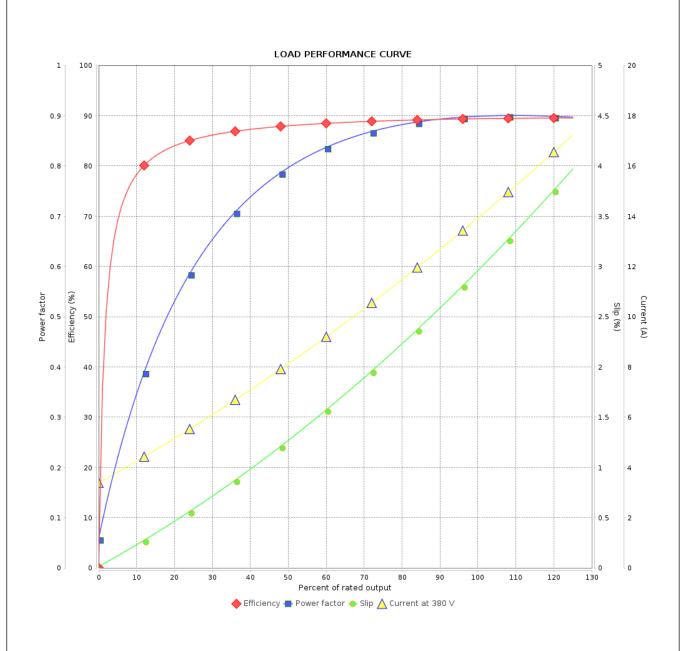


Customer :

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11168183



Performance		: 380 V 50 Hz 2P IE	2			
Rated current LRC		: 14.1 A : 5.7		Moment of inertia (J) Duty cycle		2
Rated torque Locked rotor tord		: 2.49 kgfm : 170 %	Insulation class Service factor Temperature rise Design		: Cont.(S1) : F : 1.15	
Breakdown torqu Rated speed	ie	: 240 % : 2910 rpm			: 80 K : B	
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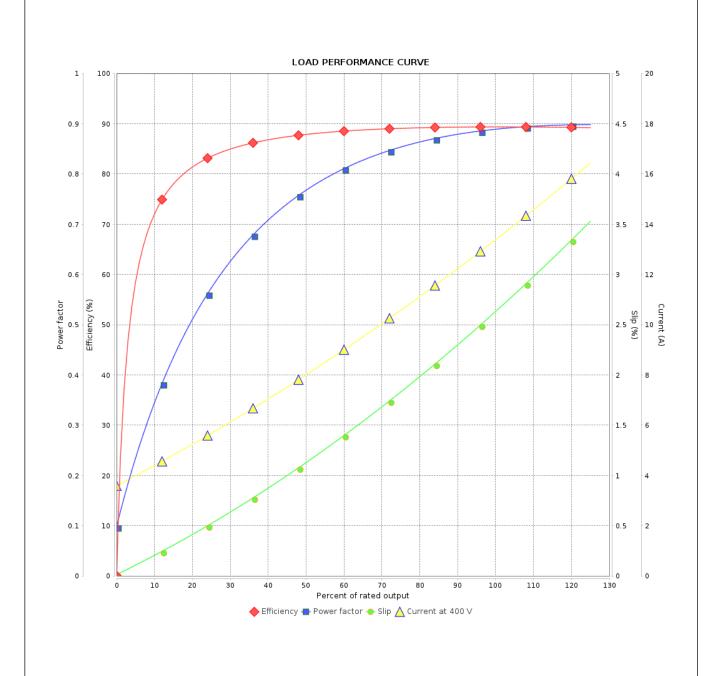


Customer

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Performance	: 4	00 V 50 Hz 2P IE2				
Rated current	: 1	3.6 A Moment of inertia (J)		: 0.0206 kgm²	2	
LRC	: 6	.4	Duty cycle	;	: Cont.(S1)	
		.49 kgfm	Insulation class		: F	
Locked rotor torqu	ie : 1	90 %	Service fa	Service factor		
Breakdown torque	: 2	70 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2	920 rpm	Design		: B	
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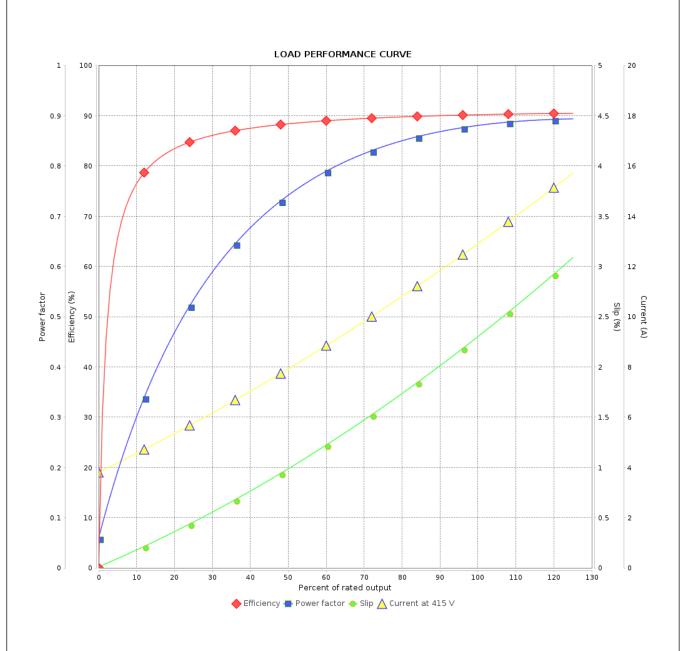


Customer :

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Efficiency Three-Phase

Product code: 11168183



- ·	445145011 00150				
Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.1 A : 6.9 : 2.48 kgfm : 210 % : 300 % : 2930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0206 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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