DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11011969

Frame : 284JM Cooling method : IC01 - ODP Insulation class : F Mounting : F-1

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 163 kg Protection degree : IP23 Moment of inertia (J) : 0.0795 kgm²

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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(Code
		G)	G)					G)
No load current [A]	25.8/12.9	12.0	13.0	14.0	11.5	12.5	14.0
Rated speed [RPN	/ []	3550	2945	2950	2955	2925	2935	2945
Slip [%]		1.39	1.83	1.67	1.50	2.50	2.17	1.83
Rated torque [kgfm]		6.13	6.16	6.15	6.14	7.44	7.42	7.39
Locked rotor torque [%]		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	80 K	80 K	80 K	80 K	80 K	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%	90.0	88.1	88.2	88.3	91.8	89.8	91.1
Efficiency (%)	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	92.4	89.5	90.2	90.7
25%		0.47	0.50	0.45	0.42	0.56	0.52	0.47
Power Factor	50%	0.73	0.75	0.70	0.66	0.80	0.77	0.71
I OWELL ACIOI	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

Drive end Non drive end Foundation loads 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 Mobil Polyrex EM

Max. traction : 151 kgf Max. compression : 314 kgf

Notes

Lubricant type

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.

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Three Phase Induction Motor - Squirrel Cage

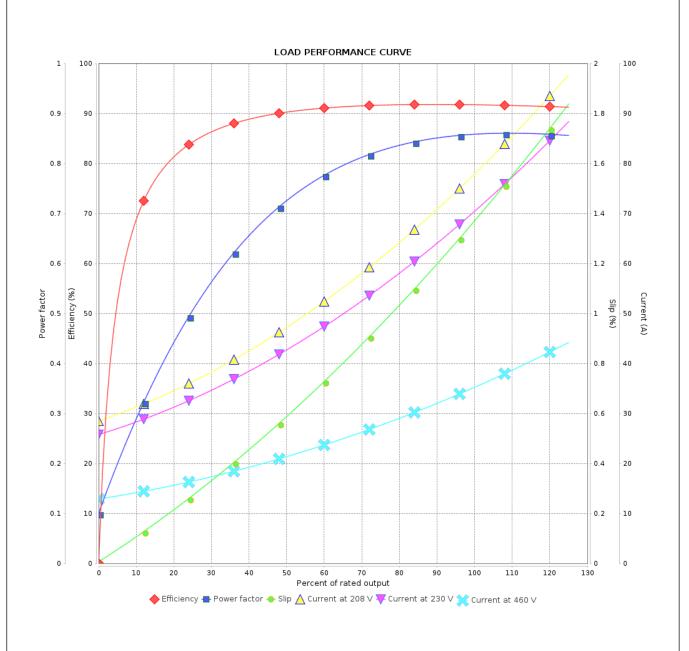


Customer

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

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Performance	: 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	Duty cycle Insulation class 0 % Service factor Temperature rise		2
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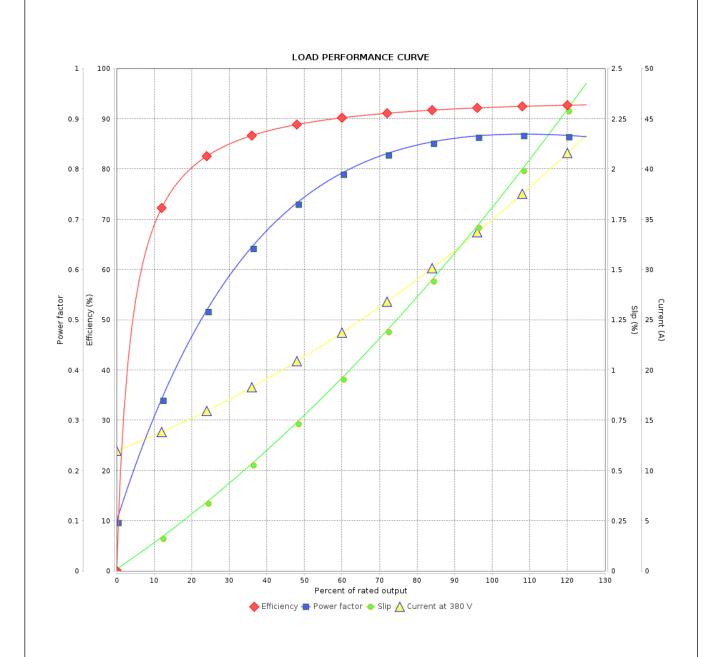


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Performance	: 38	80 V 50 Hz 2P IE3				
Rated current : 3		5.0 A	Moment o	Moment of inertia (J)		2
LRC	: 6	.6	Duty cycle	Duty cycle		
Rated torque	: 6	.16 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 1 ⁻	70 %	Service fa	ictor	: 1.15	
Breakdown torque		40 %	Temperati	Temperature rise		
Rated speed	: 29	945 rpm	Design		: B	
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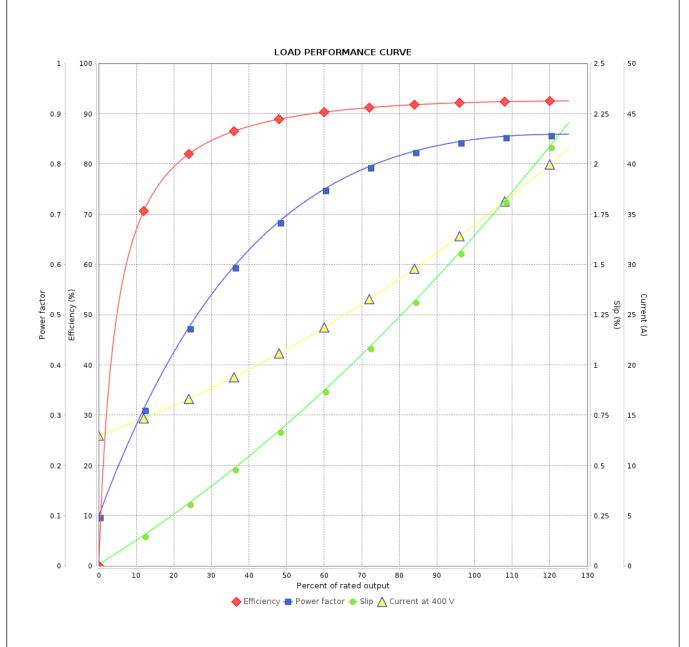


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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.0 A : 7.0 : 6.15 kgfm : 190 % : 260 % : 2950 rpm	Duty cycle I5 kgfm Insulation class 0 % Service factor 0 % Temperature rise		: 0.0795 kgm ² : Cont.(S1) : F : 1.15 : 80 K : B	2
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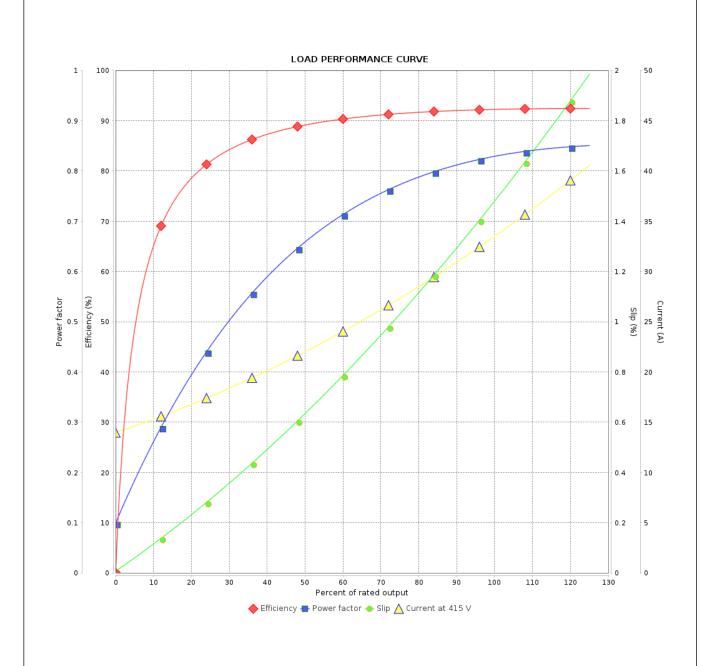


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Performance	: 4	15 V 50 Hz 2P IE3				
Rated current : 33		3.6 A	Moment of inertia (J)		: 0.0795 kgm²	
LRC	: 6.	.7	Duty cycle	` ,		
Rated torque	: 6.	.14 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 20	00 %	Service fa	ctor	: 1.15	
Breakdown torque :		70 %	Temperatu	Temperature rise		
Rated speed	: 29	955 rpm	Design		: B	
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Customer

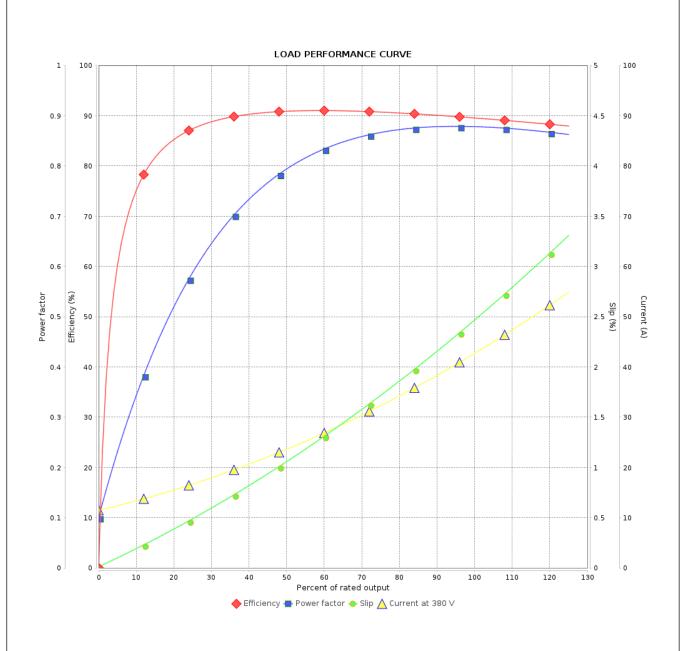
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Performance : 380 V 50 Hz 2P : 0.0795 kgm² Rated current : 42.4 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 5.3 : 7.44 kgfm Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.15 Breakdown torque : 180 % Temperature rise : 80 K Rated speed : 2925 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page 6/8

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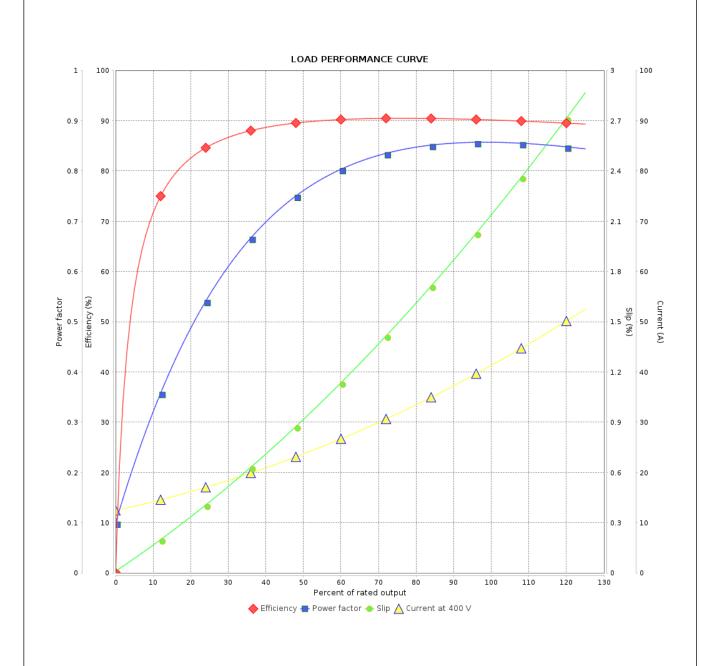


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Performance	: 4	00 V 50 Hz 2P IE1				
Rated current :		0.9 A	Moment of inertia (J)		: 0.0795 kgm²	
LRC	: 5	5.8	Duty cycle	:	: Cont.(S1)	
Rated torque	: 7	'.42 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 1	80 %	Service fa	ctor	: 1.15	
Breakdown torque		200 %	Temperature rise		: 80 K	
Rated speed	: 2	935 rpm	Design		: B	
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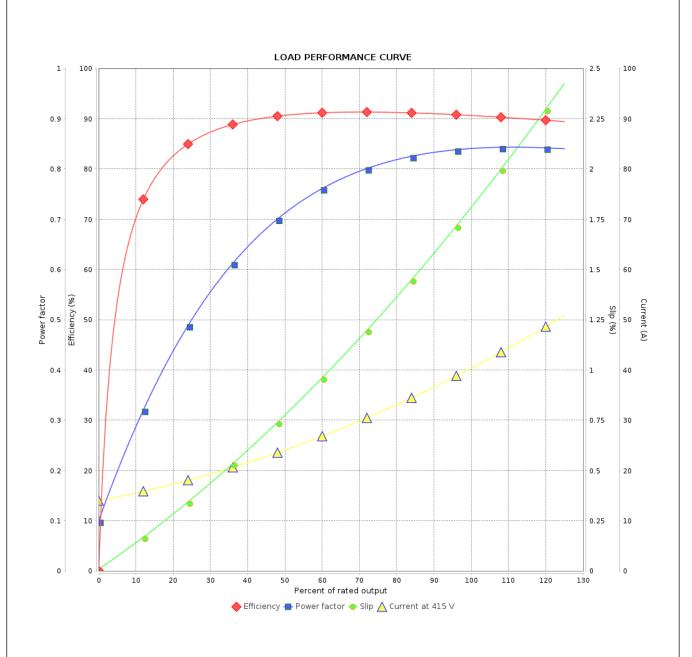


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Performance	: 415 V 50 Hz 2P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.2 A : 6.5 : 7.39 kgfm : 200 % : 220 % : 2945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise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