DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Close Coupled Pump NEMA Premium

Efficiency Three-Phase

Product code: 11169383

: 254JM Cooling method Frame : 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

: 1000 m.a.s.l. Approx. weight³ Altitude : 110 kg Protection degree : IP23 Moment of inertia (J) : 0.0878 kgm²

	_							
Design		: B						
Output [HP]		15	10	10	10	15	15	15
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]		37.2/18.6	16.2	16.2	16.2	22.1	21.8	21.8
L. R. Amperes [A]		249/125	110	110	113	119	124	131
LRC [A]		6.7x(Code H)	6.8x(Code J)	6.8x(Code J)	7.0x(Code K)	5.4x(Code F)	5.7x(Code	6.0x(Code
							G)	G)
No load current [A]	18.0/9.00	9.20	10.1	10.9	9.20	10.4	11.6
Rated speed [RPN	<i>/</i> 1]	1775	1480	1480	1485	1470	1470	1475
Slip [%]		1.39	1.33	1.33	1.00	2.00	2.00	1.67
Rated torque [kgfr	n]	6.13	4.90	4.90	4.89	7.41	7.41	7.38
Locked rotor torqu	e [%]	290	270	280	300	180	190	210
Breakdown torque	[%]	300	370	390	400	280	310	340
Service factor		1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K				
Locked rotor time		25s (cold)	37s (cold)	34s (cold)	30s (cold)	37s (cold)	34s (cold)	30s (cold)
		14s (hot)	21s (hot)	19s (hot)	17s (hot)	21s (hot)	19s (hot)	17s (hot)
Noise level ²		59.0 dB(A)						
	25%							
Efficiency (%)	50%	91.7	86.4	86.2	85.9	88.5	88.5	88.5
Linelettey (70)	75%	92.4	89.2	89.3	89.3	89.5	89.5	89.5
	100%	93.0	90.4	90.5	90.6	91.0	91.0	91.0
	25%							
Power Factor	50%	0.60	0.56	0.52	0.50	0.66	0.61	0.56
1 OWCI I actor	75%	0.72	0.70	0.66	0.62	0.77	0.73	0.69
	100%	0.80	0.78	0.74	0.71	0.83	0.80	0.77

Drive end Non drive end Bearing type 6309 Z C3 6209 Z C3

Without Sealing Without

Bearing Seal Bearing Seal

20000 h 20000 h Lubrication interval 9 g Lubricant amount 13 g Mobil Polyrex EM Lubricant type

Foundation loads

Max. traction : 339 kgf Max. compression : 450 kgf

Notes

USABLE @208V 41.1A SF 1.15 SFA 47.3A

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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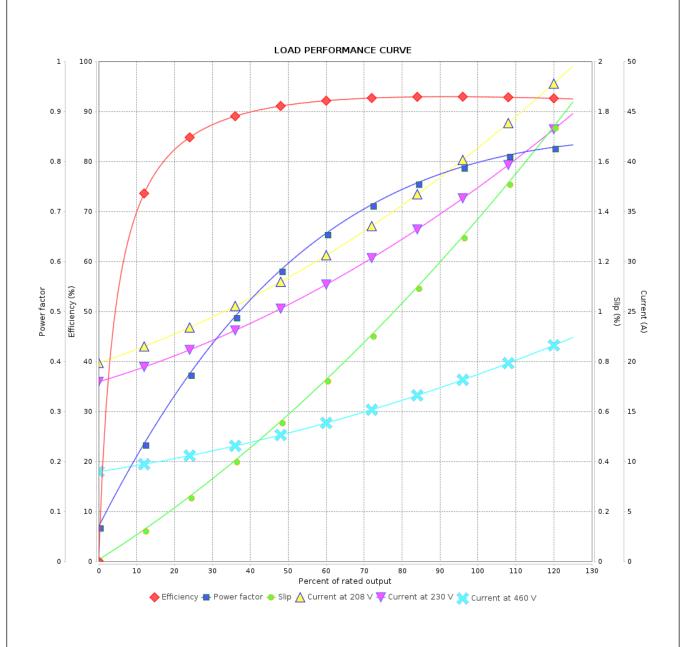


Customer :

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 37.2/18.6 A : 6.7 : 6.13 kgfm : 290 % : 300 % : 1775 rpm	Duty cycle Insulation Service fac	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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Customer :

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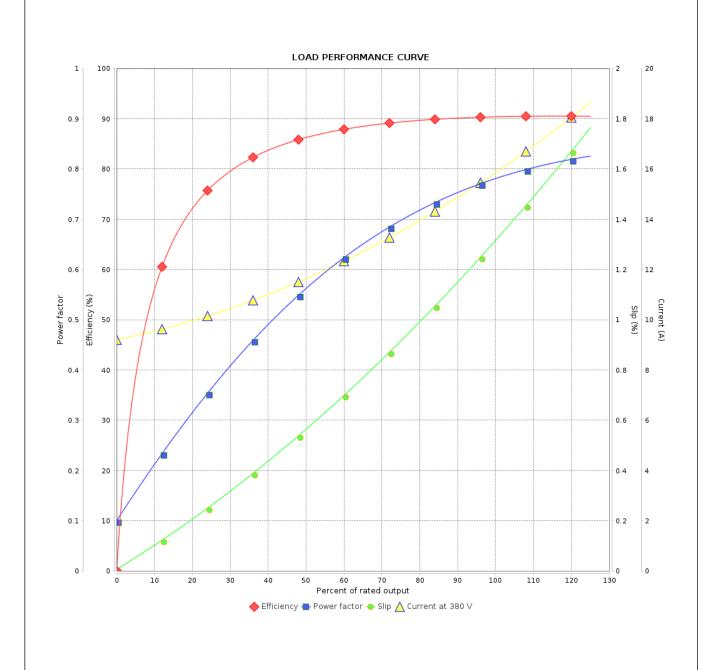
Date

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Performance	: 38	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 4 que : 2 ue : 3	6.2 A .8 .90 kgfm 70 % 70 % 480 rpm	Moment of Duty cycle Insulation Service far Temperate Design	class ctor	: 0.0878 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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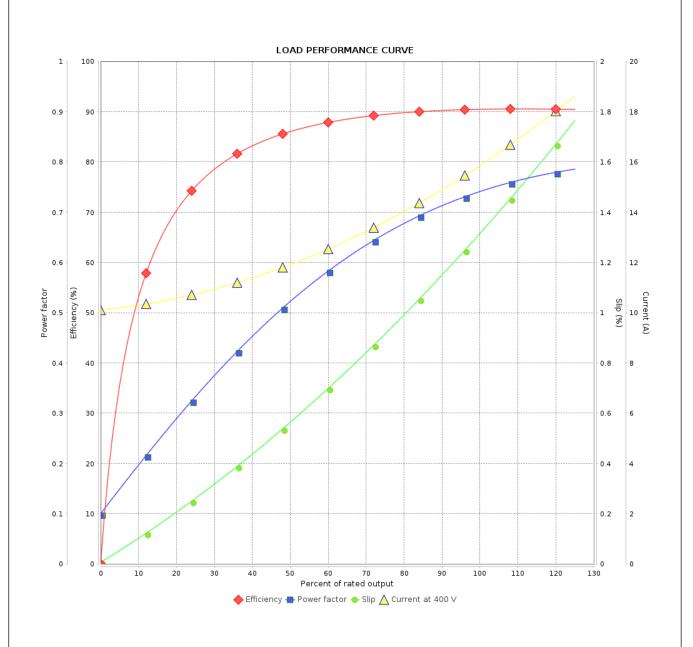


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Performance	: 400 V 50 Hz 4P IE	3		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0878 kgm : Cont.(S1) : F : 1.15 : 80 K : B	2
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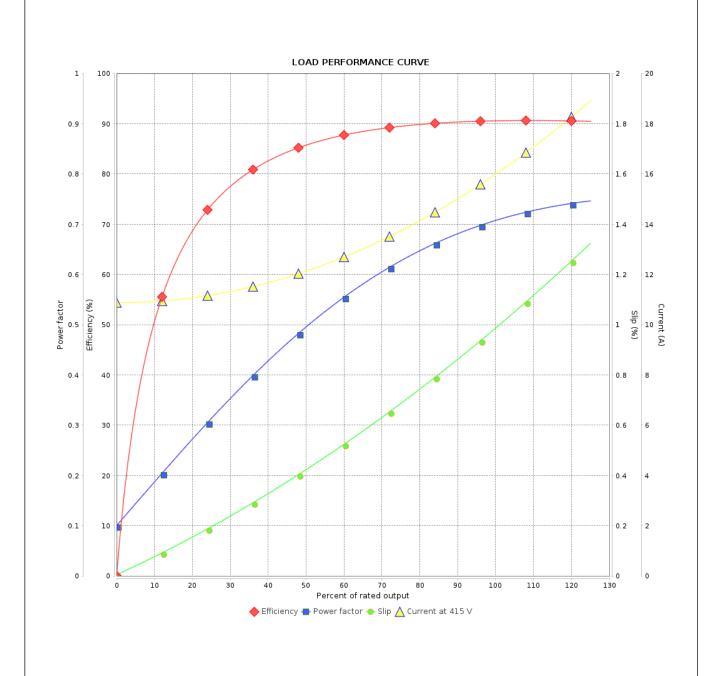


Customer :

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 16.2 A : 7.0 : 4.89 kgfm : 300 % : 400 % : 1485 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design	ss r	: 0.0878 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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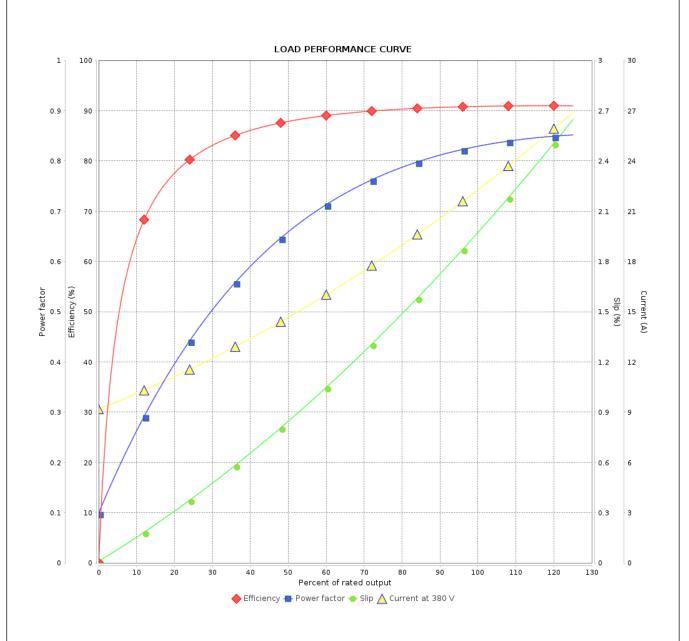


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Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.1 A : 5.4 : 7.41 kgfm : 180 % : 280 % : 1470 rpm	Moment of in Duty cycle Insulation classification Classification Classification Classification Control	ass or	: 0.0878 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	2
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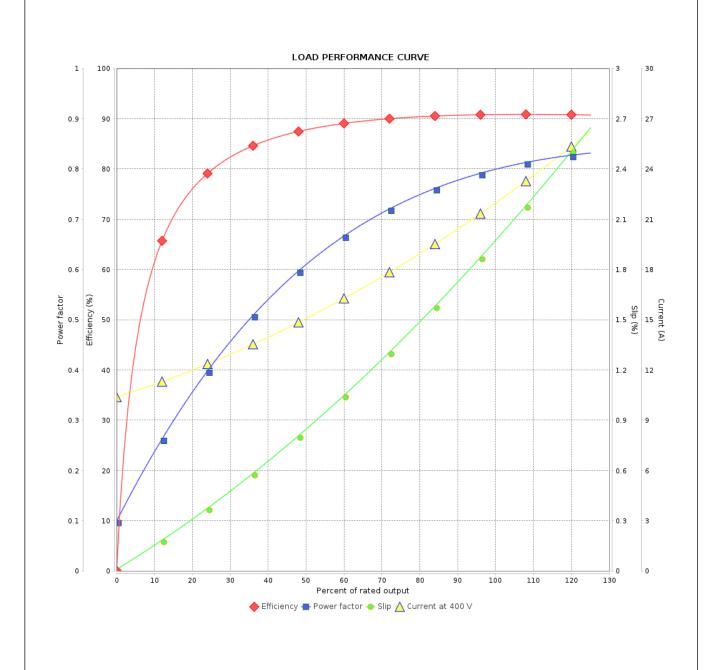


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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.8 A : 5.7 : 7.41 kgfm : 190 % : 310 % : 1470 rpm	Moment of ir Duty cycle Insulation cla Service facto Temperature Design	ass or	: 0.0878 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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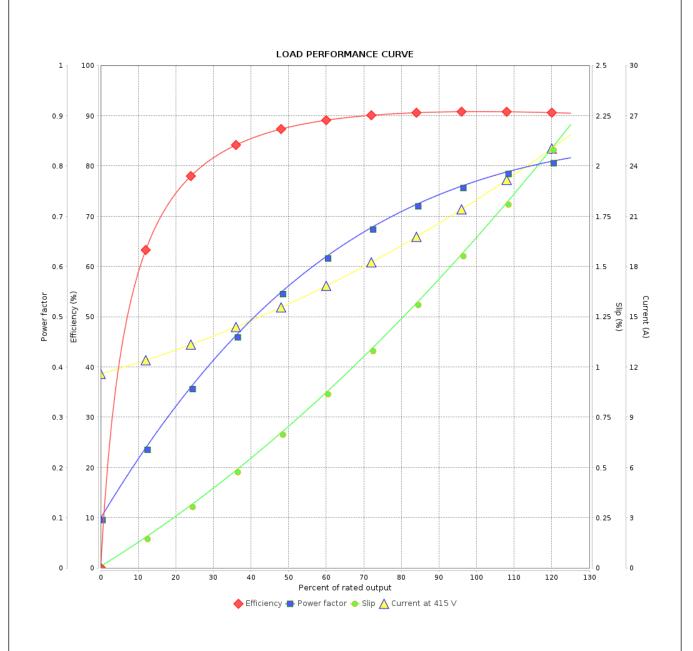


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Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.8 A : 6.0 : 7.38 kgfm : 210 % : 340 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0878 kgm : Cont.(S1) : F : 1.15 : 80 K : B	2
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