### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium Efficiency Product code: 14484696

Three-Phase

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

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 146 kg Protection degree : IP23 Moment of inertia (J) : 0.0669 kgm<sup>2</sup>

Design		: B			
Output [HP]		30	25	25	25
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		70.0/35.0	35.0	34.0	33.6
L. R. Amperes [A]		441/221	217	228	232
LRC [A]		6.3x(Code G)	6.2x(Code G)	6.7x(Code H)	6.9x(Code H)
No load current [A]		25.0/12.5	11.7	13.5	15.3
Rated speed [RPM	1]	3545	2940	2950	2955
Slip [%]		1.53	2.00	1.67	1.50
Rated torque [kgfm]		6.14	6.17	6.17 6.15	
Locked rotor torque [%]		180	170	190	200
Breakdown torque [%]		260	240	260	270
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		18s (cold) 10s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	16s (cold) 9s (hot)
Noise level <sup>2</sup>		73.0 dB(A)			
	25%	90.0	88.0	88.2	88.3
Efficiency (%)	50%	90.2	89.7	89.8	89.8
Liliciency (70)	75%	91.7	90.7	90.8	90.8
	100%	91.7	92.4	92.4	92.4
	25%	0.48	0.50	0.45	0.41
Power Factor	50%	0.73	0.75	0.70	0.66
I OWELL ACIO	75%	0.82	0.83	0.80	0.77
	100%	0.86	0.87	0.85	0.83

Non drive end Foundation loads Drive end Bearing type 6311 Z C3 6211 Z C3 Max. traction Sealing Without Without Max. compression

Bearing Seal Bearing Seal

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

Notes

USABLE @208V 77.4A SF 1.15 SFA 89.0A

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.

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#### Three Phase Induction Motor - Squirrel Cage



Customer :

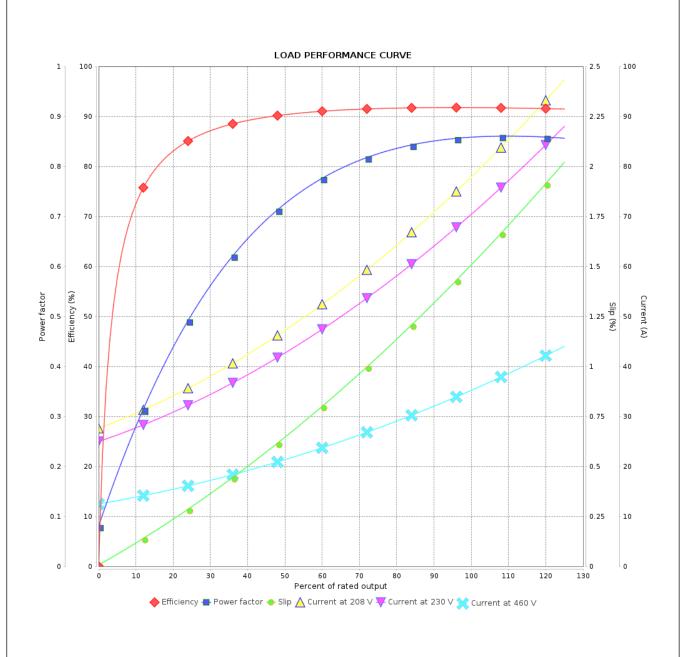
Product line : W40 JM Pump NEMA Premium Efficiency

Three Dhace

Product code:

14484696

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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 : 6.14 kgfm : 180 % : 260 % : 3545 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0669 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Date

#### Three Phase Induction Motor - Squirrel Cage



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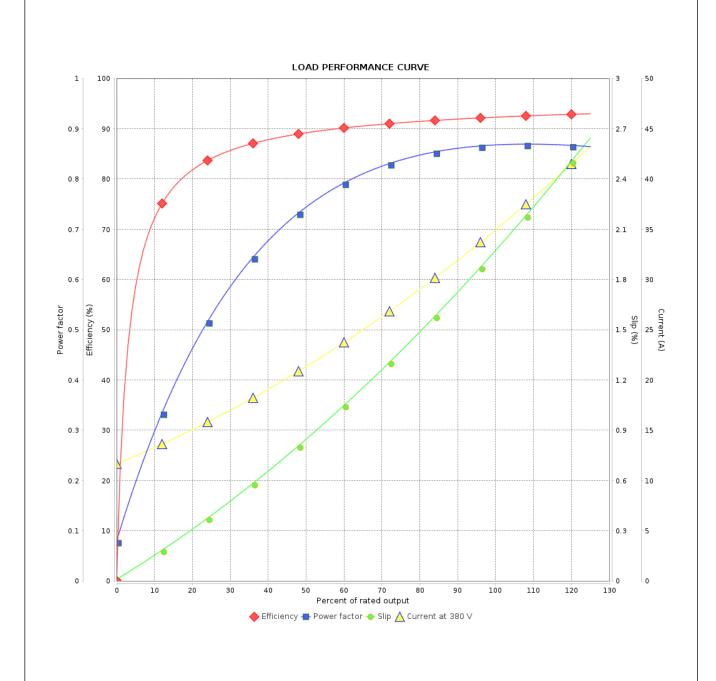
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Product line : W40 JM Pump NEMA Premium Efficiency Product code : 14484696

Three-Phase



Performance		: 380 V 50 Hz 2P	IE3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 35.0 A : 6.2 : 6.17 kgfm : 170 % : 240 % : 2940 rpm	Duty cy Insulati Service	on class factor rature rise	: 0.0669 kgm : Cont.(S1) : F : 1.00 : 80 K : B	2
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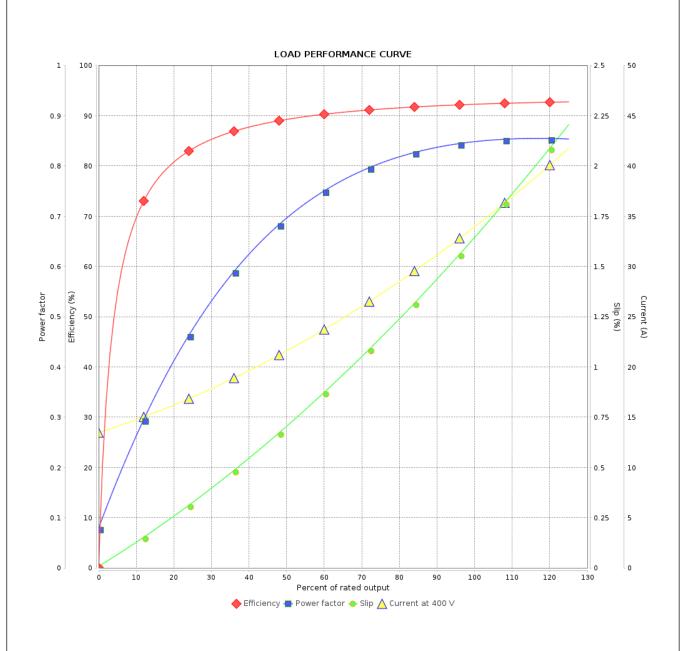
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium Efficiency

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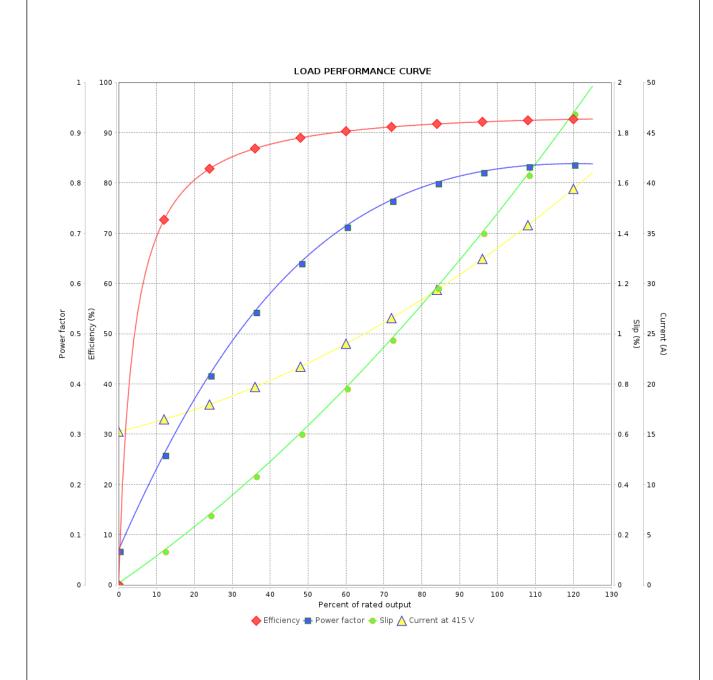
Performance	: 4	00 V 50 Hz 2P IE3				
Rated current : 34		4.0 A	Moment of inertia (J)		: 0.0669 kgm²	!
LRC	: 6	.7	Duty cycle		: Cont.(S1)	
Rated torque	: 6	.15 kgfm	Insulation class		: F	
Locked rotor tord	que : 1	90 %	Service factor		: 1.00	
Breakdown torque : 26		60 %	Temperature rise		: 80 K	
Rated speed : 29		950 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JM Pump NEMA Premium Efficiency Product code: 14484696



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torgu	: 6 : 6 ue : 2	Moment of inertia (J) Duty cycle L14 kgfm Insulation class Service factor Temperature rise		e class actor	: 0.0669 kgm² : Cont.(S1) : F : 1.00 : 80 K	
Rated speed		955 rpm	Design		: B	
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