

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium Efficiency Three-Phase Product code : 14484696

Frame : 284JM	Cooling method : IC01 - ODP
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(S1)	Rotation ¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight ³ : 147 kg
Protection degree : IP23	Moment of inertia (J) : 0.0669 kgm ²
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]	3545	2940	2950	2955
Slip [%]	1.53	2.00	1.67	1.50
Rated torque [kgfm]	6.14	6.17	6.15	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 ²	73.0 dB(A)			
Efficiency (%)	25%			
	50%	90.2	89.7	89.8
	75%	91.7	90.7	90.8
	100%	91.7	92.4	92.4
Power Factor	25%			
	50%	0.73	0.75	0.66
	75%	0.82	0.83	0.77
	100%	0.86	0.87	0.83

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
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	
Lubricant type :	Mobil Polyrex EM		

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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 5 Revision		
Checked by				
Date	30/10/2024			

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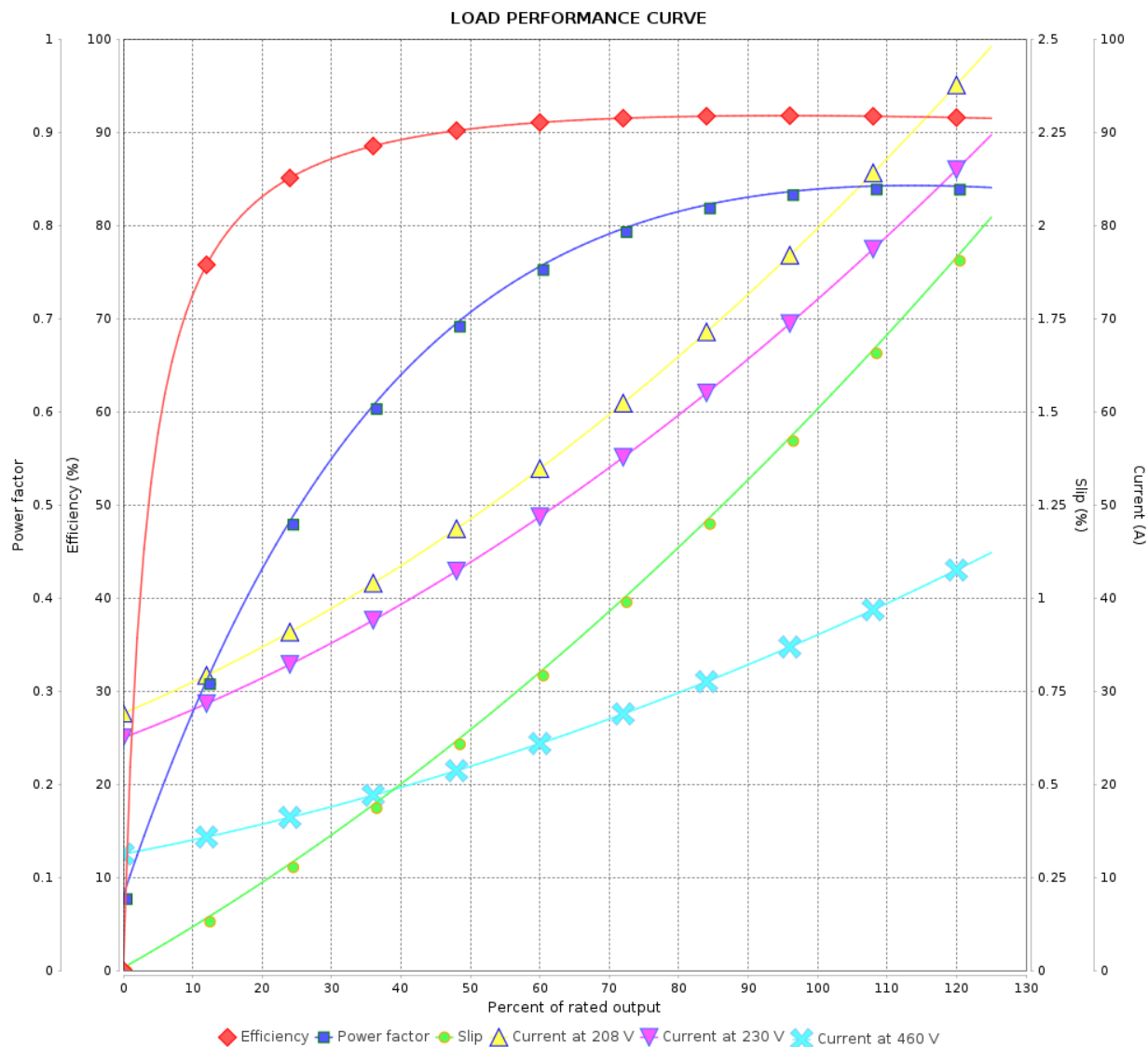
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 14484696



Performance : 230/460 V 60 Hz 2P

Rated current : 70.0/35.0 A
LRC : 6.3
Rated torque : 6.14 kgfm
Locked rotor torque : 180 %
Breakdown torque : 260 %
Rated speed : 3545 rpm

Moment of inertia (J) : 0.0669 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 5	Revision
Checked by					
Date	30/10/2024				

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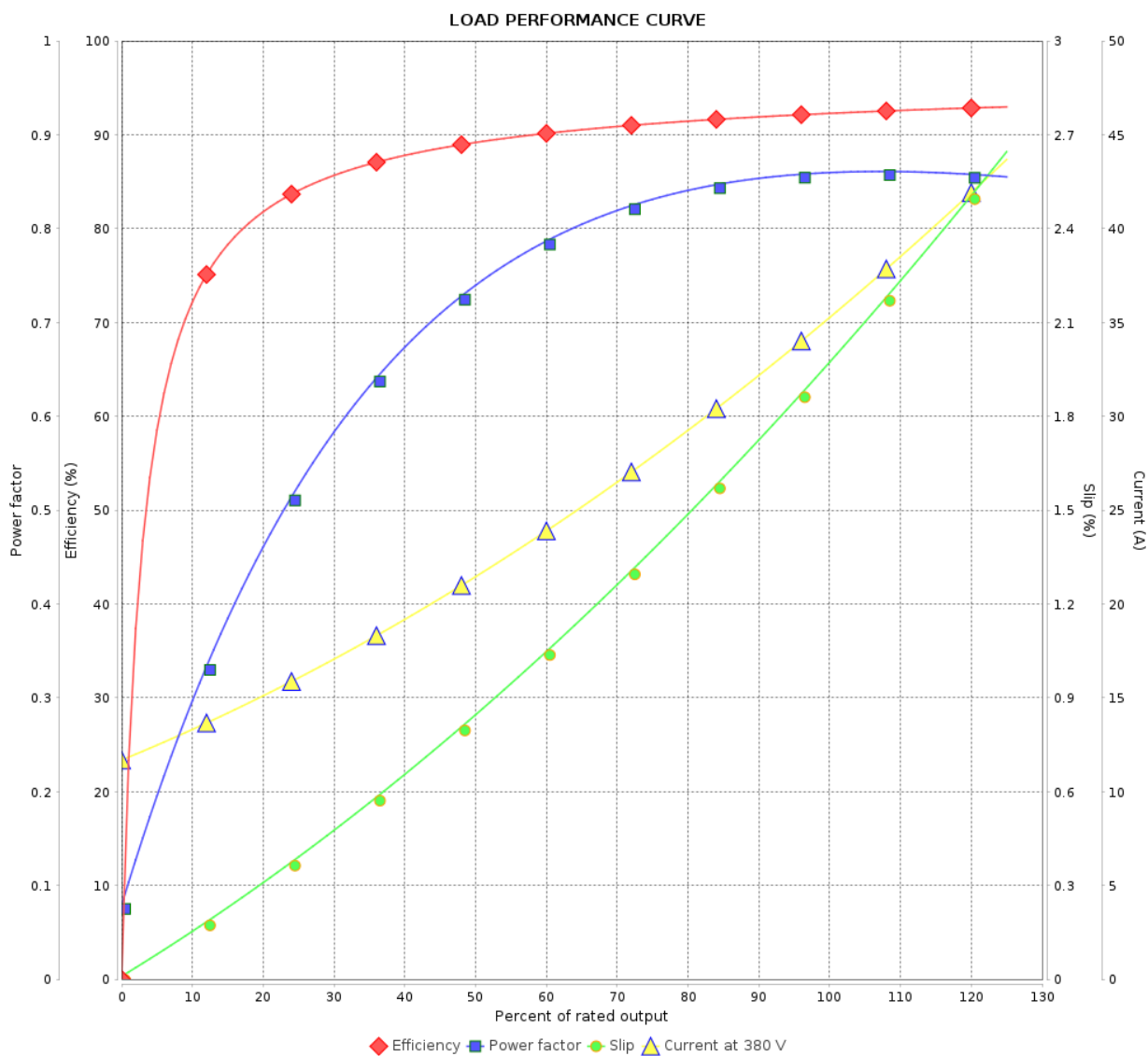
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium
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Performance : 380 V 50 Hz 2P IE3

Rated current : 35.0 A
LRC : 6.2
Rated torque : 6.17 kgfm
Locked rotor torque : 170 %
Breakdown torque : 240 %
Rated speed : 2940 rpm

Moment of inertia (J) : 0.0669 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 5Revision		
Checked by				
Date	30/10/2024			

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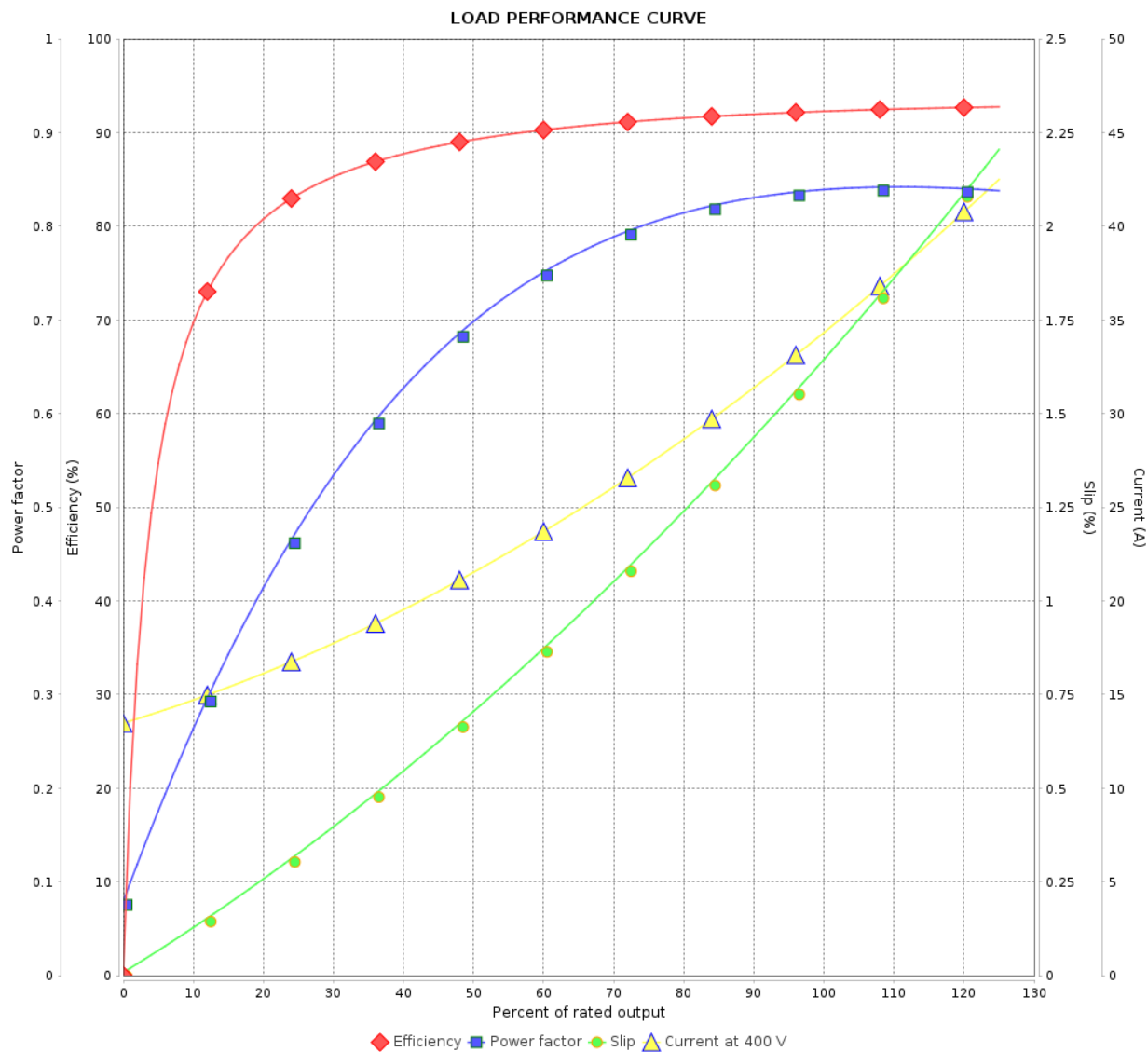
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 14484696



Performance : 400 V 50 Hz 2P IE3

Rated current : 34.0 A
LRC : 6.7
Rated torque : 6.15 kgfm
Locked rotor torque : 190 %
Breakdown torque : 260 %
Rated speed : 2950 rpm

Moment of inertia (J) : 0.0669 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				4 / 5	
Date					

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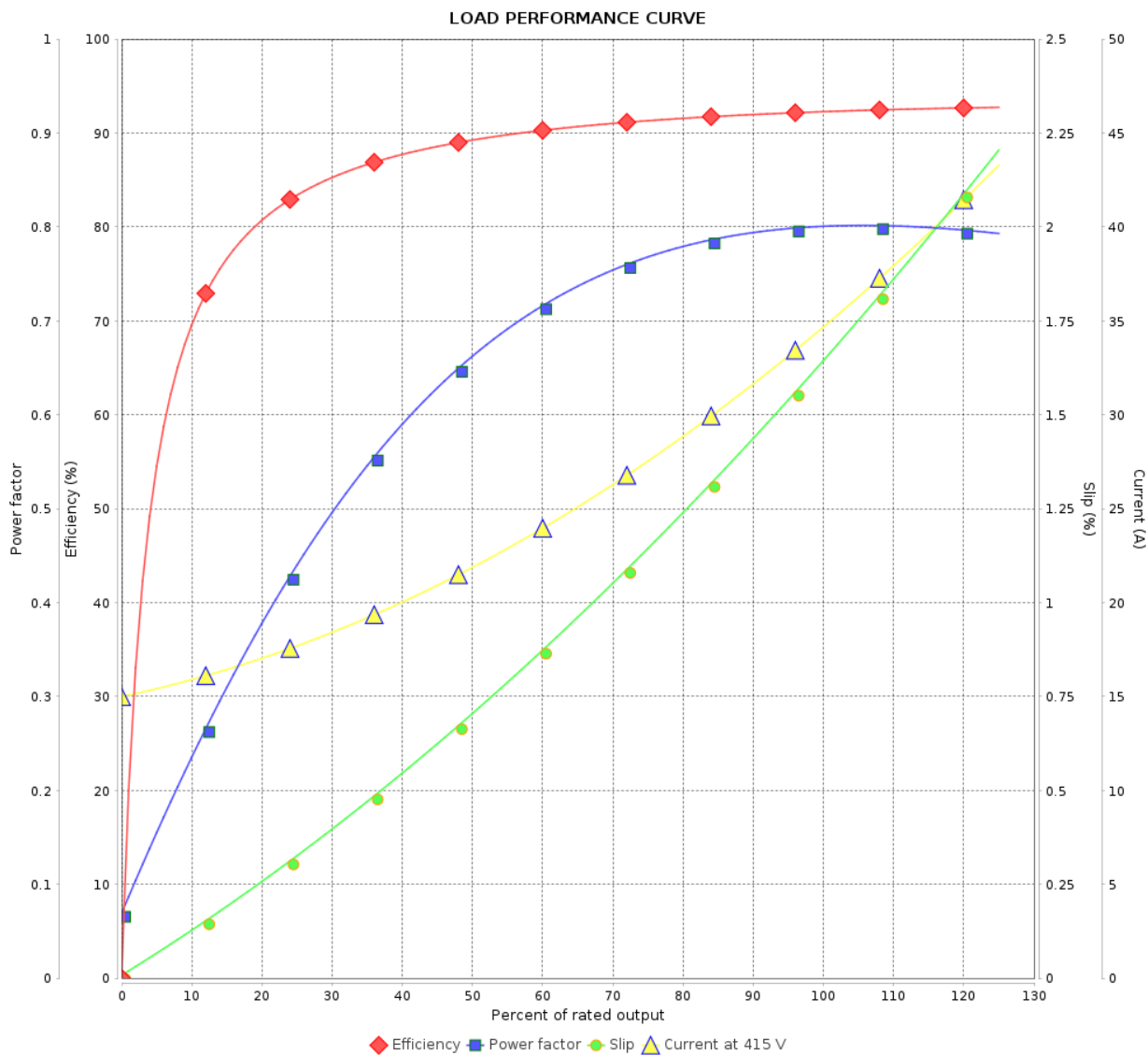
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 415 V 50 Hz 2P IE3

Rated current : 33.6 A
LRC : 6.9
Rated torque : 6.15 kgfm
Locked rotor torque : 200 %
Breakdown torque : 270 %
Rated speed : 2955 rpm

Moment of inertia (J) : 0.0669 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 5 / 5Revision		
Checked by				
Date	30/10/2024			