

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 12676946

Frame	: 143/5JM	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 ²	: 19.0 kg
Design	: B	Moment of inertia (J)	: 0.0054 kgm ²

Output [HP]	3	3	3
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	7.18/3.59	8.78/4.39	7.83/4.15
L. R. Amperes [A]	57.4/28.7	53.6/26.8	53.2/28.2
LRC [A]	8.0x(Code J)	6.1x(Code G)	6.8x(Code H)
No load current [A]	2.60/1.30	2.60/1.30	2.71/1.44
Rated speed [RPM]	3480	2825	2840
Slip [%]	3.33	5.83	5.33
Rated torque [kgfm]	0.626	0.771	0.767
Locked rotor torque [%]	229	190	220
Breakdown torque [%]	300	229	250
Service factor		1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	16s (cold) 9s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%	83.7	89.4
	50%	84.0	86.6
	75%	85.5	85.0
	100%	85.5	81.8
Power Factor	25%	0.50	0.56
	50%	0.76	0.83
	75%	0.86	0.90
	100%	0.90	0.93

	<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	: 6206 ZZ	6203 ZZ	Foundation loads
Sealing	: Without	Without	Max. traction : 45 kgf
	Bearing Seal	Bearing Seal	Max. compression : 64 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes
USABLE @208V 7.94A SF 1.00 SFA 7.94A

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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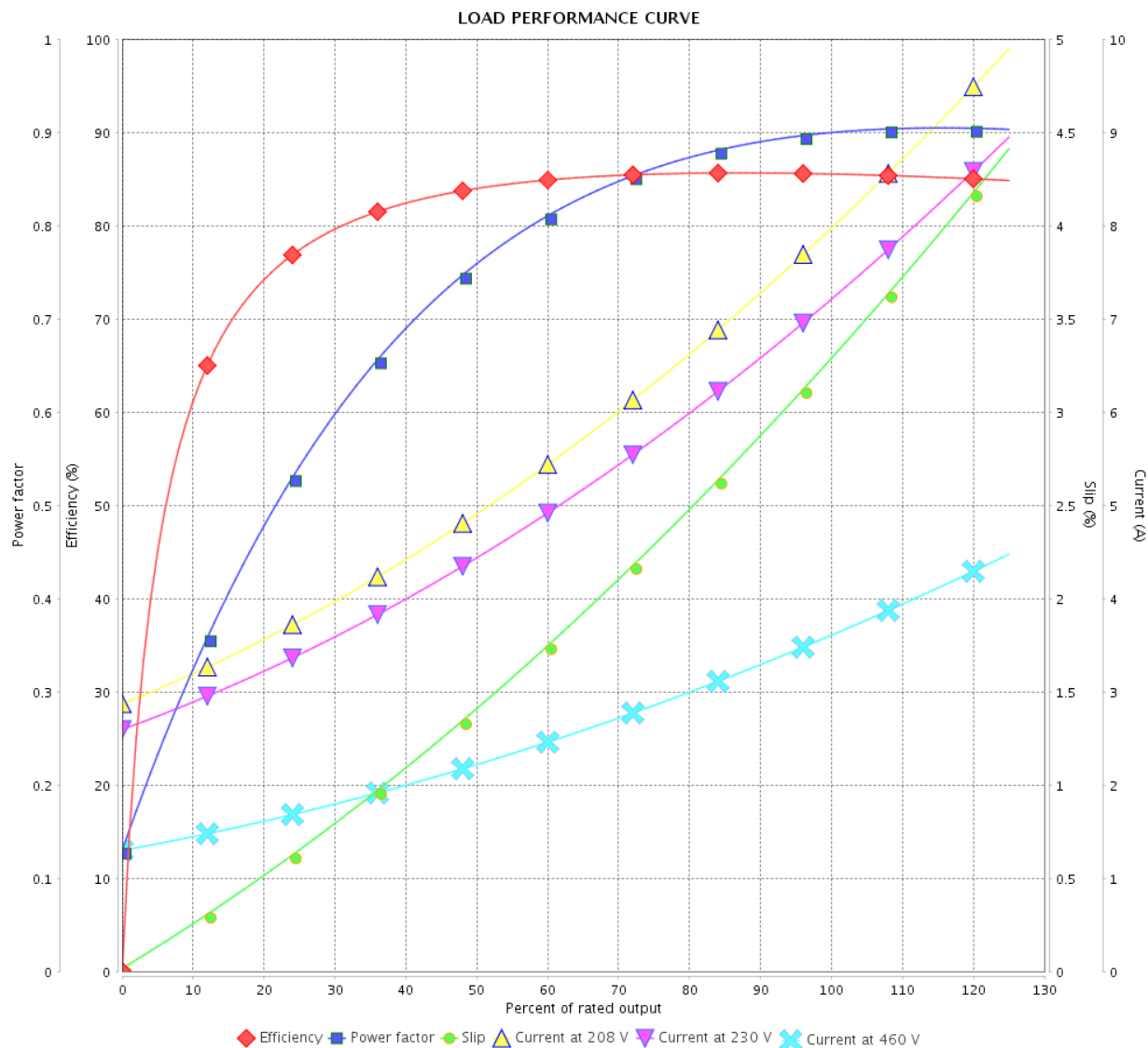
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 230/460 V 60 Hz 2P

Rated current : 7.18/3.59 A
LRC : 8.0
Rated torque : 0.626 kgfm
Locked rotor torque : 229 %
Breakdown torque : 300 %
Rated speed : 3480 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor :
Temperature rise : 80 K
Design : B

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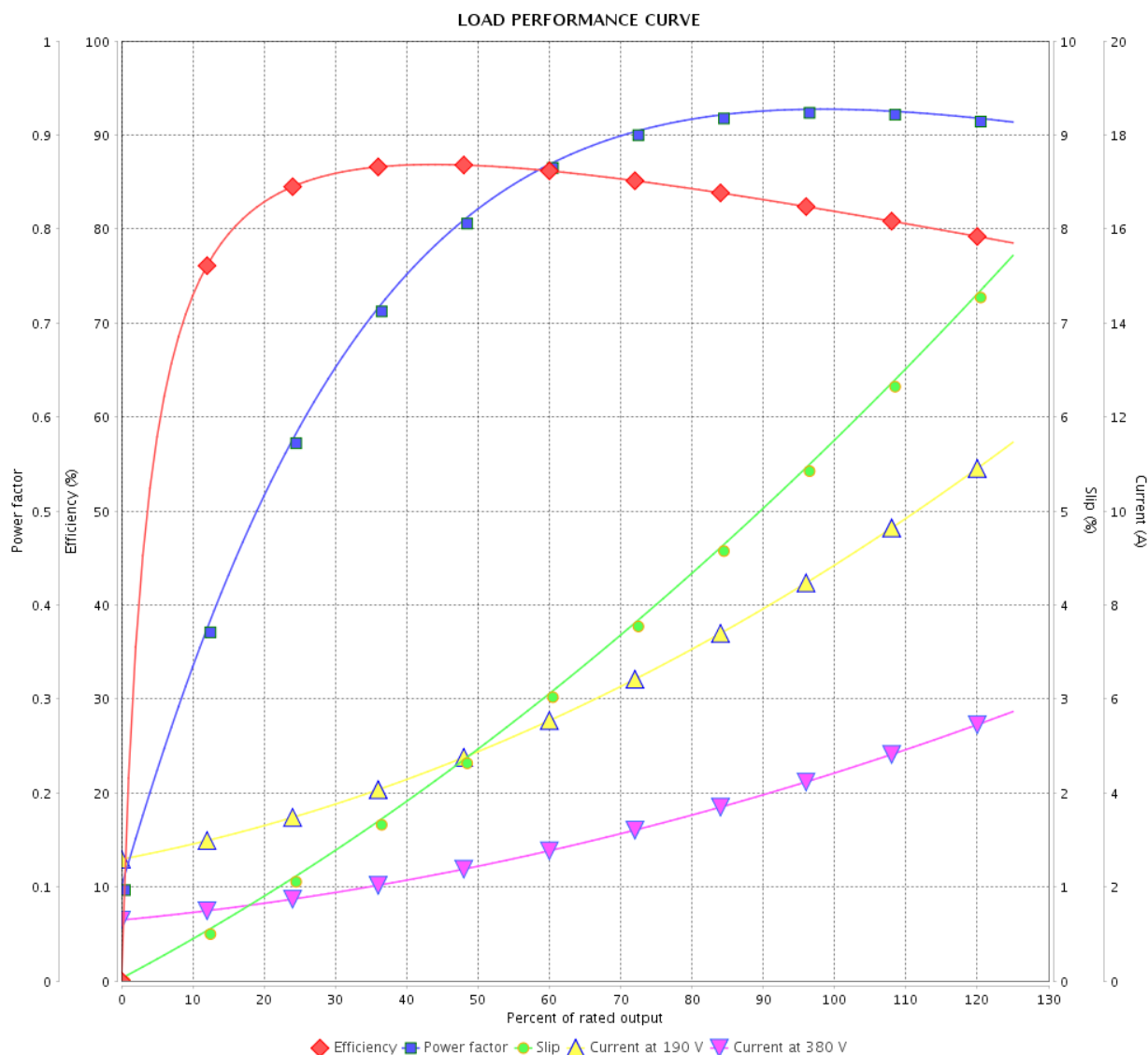
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 12676946



Performance : 190/380 V 50 Hz 2P

Rated current : 8.78/4.39 A
LRC : 6.1
Rated torque : 0.771 kgfm
Locked rotor torque : 190 %
Breakdown torque : 229 %
Rated speed : 2825 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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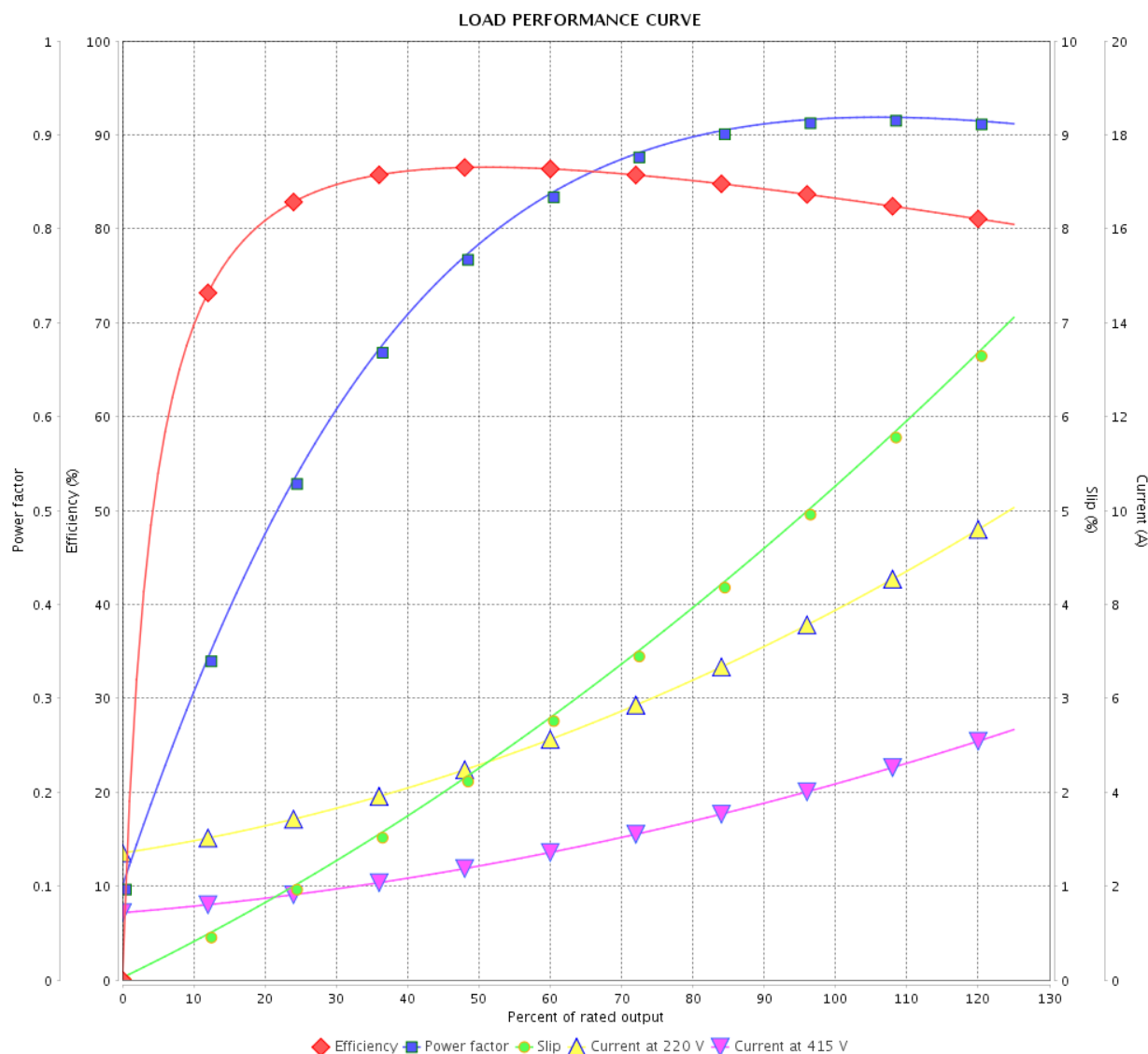
Three Phase Induction Motor - Squirrel Cage



Customer :

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Efficiency Three-Phase

Product code : 12676946



Performance : 220/415 V 50 Hz 2P

Rated current : 7.83/4.15 A
LRC : 6.8
Rated torque : 0.767 kgfm
Locked rotor torque : 220 %
Breakdown torque : 250 %
Rated speed : 2840 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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