

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Jet Pump - J type Premium Efficiency Three-Phase Product code : 13961579

Frame	: 56J	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: CCW
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 19.8 kg
Design	: A	Moment of inertia (J)	: 0.0054 kgm ²

Output [HP]	3	1.5	1.5
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	7.18/3.59	4.98-4.30/2.49	2.47
L. R. Amperes [A]	57.4/28.7	48.8-42.1/24.4	26.2
LRC [A]	8.0x(Code J)	9.8x(Code M)	10.6x(Code P)
No load current [A]	2.60/1.30	2.46-2.12/1.23	1.45
Rated speed [RPM]	3480	2940	2950
Slip [%]	3.33	2.00	1.67
Rated torque [kgfm]	0	0	0
Locked rotor torque [%]	229	459	560
Breakdown torque [%]	300	550	660
Service factor		1.00	1.00
Temperature rise	80 K	80 K	80 K
Locked rotor time	16s (cold) 9s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%		
	50%	84.0	80.7
	75%	85.5	84.4
	100%	85.5	82.7
Power Factor	25%		
	50%	0.76	0.59
	75%	0.86	0.72
	100%	0.90	0.81

Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads	
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 69 kgf
Lubrication interval	: - -	Max. compression	: 87 kgf
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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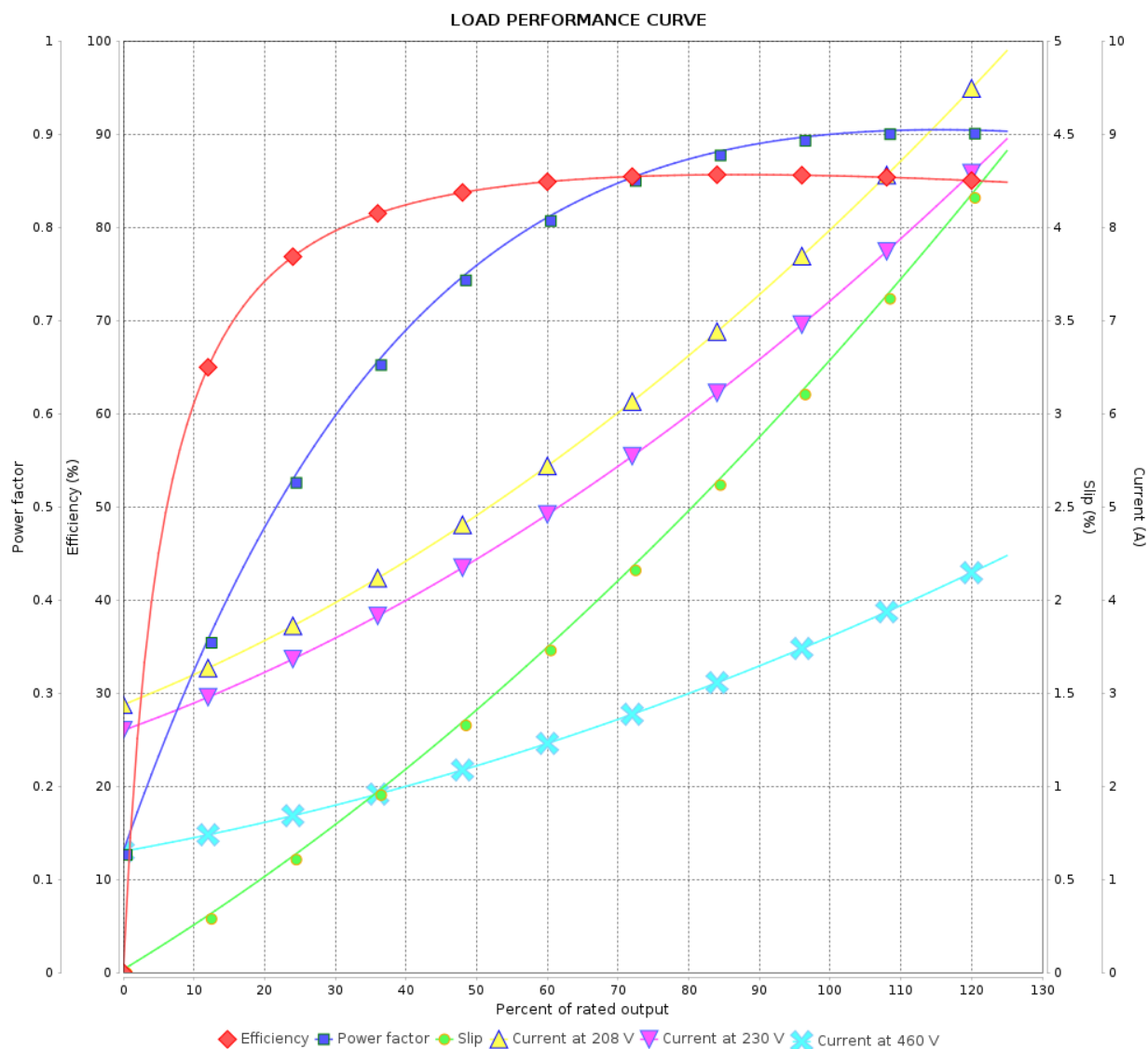
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Jet Pump - J type
Premium Efficiency Three-Phase

Product code : 13961579



Performance : 230/460 V 60 Hz 2P

Rated current : 7.18/3.59 A
LRC : 8.0
Rated torque : 0 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 : A

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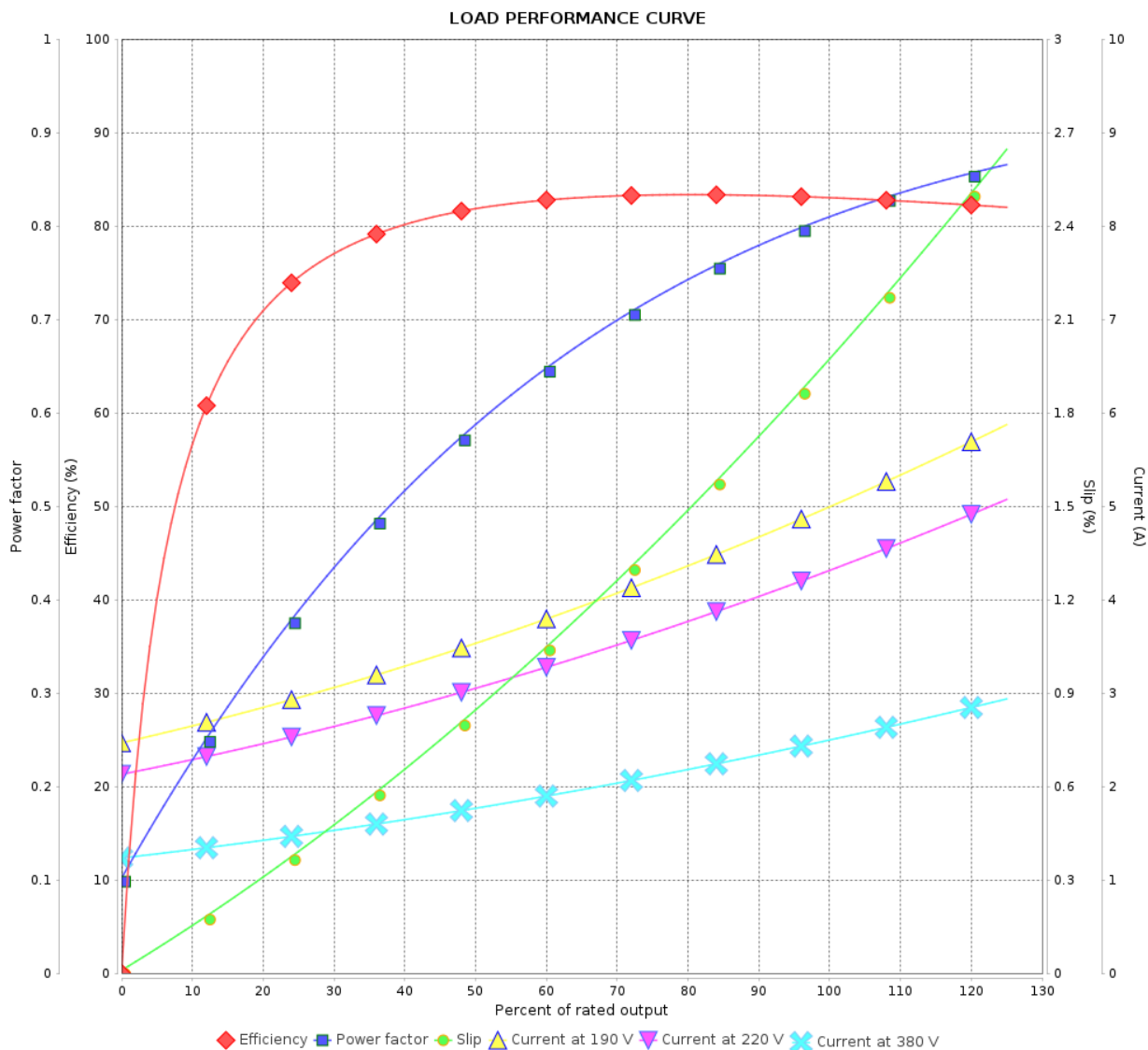
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Jet Pump - J type
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Performance : 190-220/380 V 50 Hz 2P

Rated current : 4.98-4.30/2.49 A
LRC : 9.8
Rated torque : 0 kgfm
Locked rotor torque : 459 %
Breakdown torque : 550 %
Rated speed : 2940 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : A

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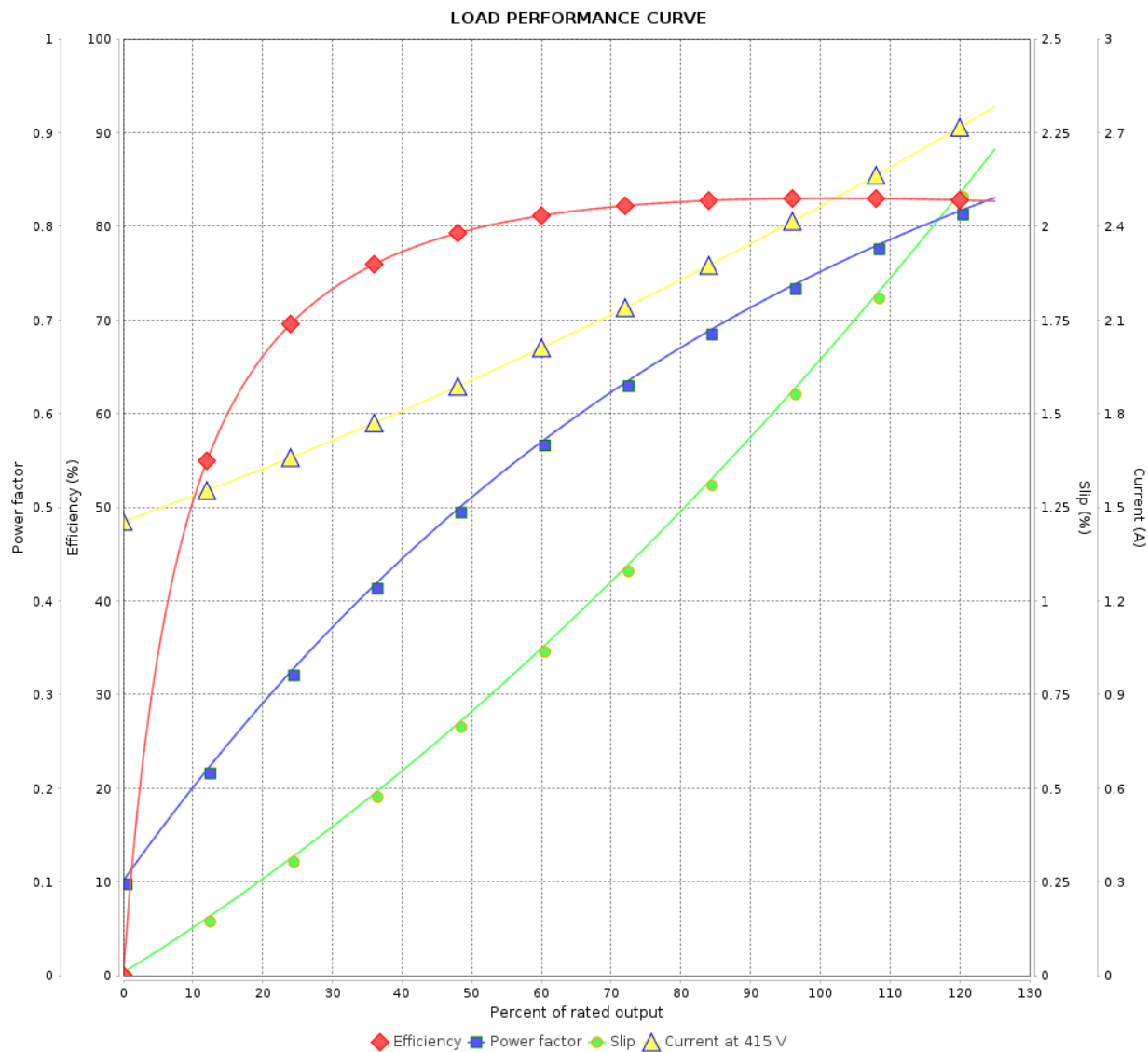
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Jet Pump - J type
Premium Efficiency Three-Phase

Product code : 13961579



Performance : 415 V 50 Hz 2P

Rated current : 2.47 A
LRC : 10.6
Rated torque : 0 kgfm
Locked rotor torque : 560 %
Breakdown torque : 660 %
Rated speed : 2950 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : A

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