

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Jet Pump - J type Premium Efficiency Three-Phase Product code : 13961578

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	: 16.7 kg
Design	: A	Moment of inertia (J)	: 0.0049 kgm ²

Output [HP]	2	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]	4.84/2.42	4.44-3.83/2.22	2.13
L. R. Amperes [A]	43.1/21.5	30.2-26.1/15.1	16.4
LRC [A]	8.9x(Code K)	6.8x(Code H)	7.7x(Code J)
No load current [A]	1.84/0.920	1.68-1.45/0.840	0.970
Rated speed [RPM]	3510	2910	2925
Slip [%]	2.50	3.00	2.50
Rated torque [kgfm]	0	0	0
Locked rotor torque [%]	220	250	300
Breakdown torque [%]	330	310	380
Service factor		1.20	1.20
Temperature rise	80 K	80 K	80 K
Locked rotor time	25s (cold) 14s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%		
	50%	84.0	81.2
	75%	85.5	83.3
	100%	85.5	82.7
Power Factor	25%		
	50%	0.77	0.68
	75%	0.86	0.80
	100%	0.91	0.87

Bearing type	: Drive end 6203 2RS Non drive end 6202 2RS	Foundation loads	
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 37 kgf
Lubrication interval	: - -	Max. compression	: 54 kgf
Lubricant amount	: - -		
Lubricant type	: Mobil Polyrex EM		

Notes
USABLE @208V 5.35A SF 1.00 SFA 5.35A

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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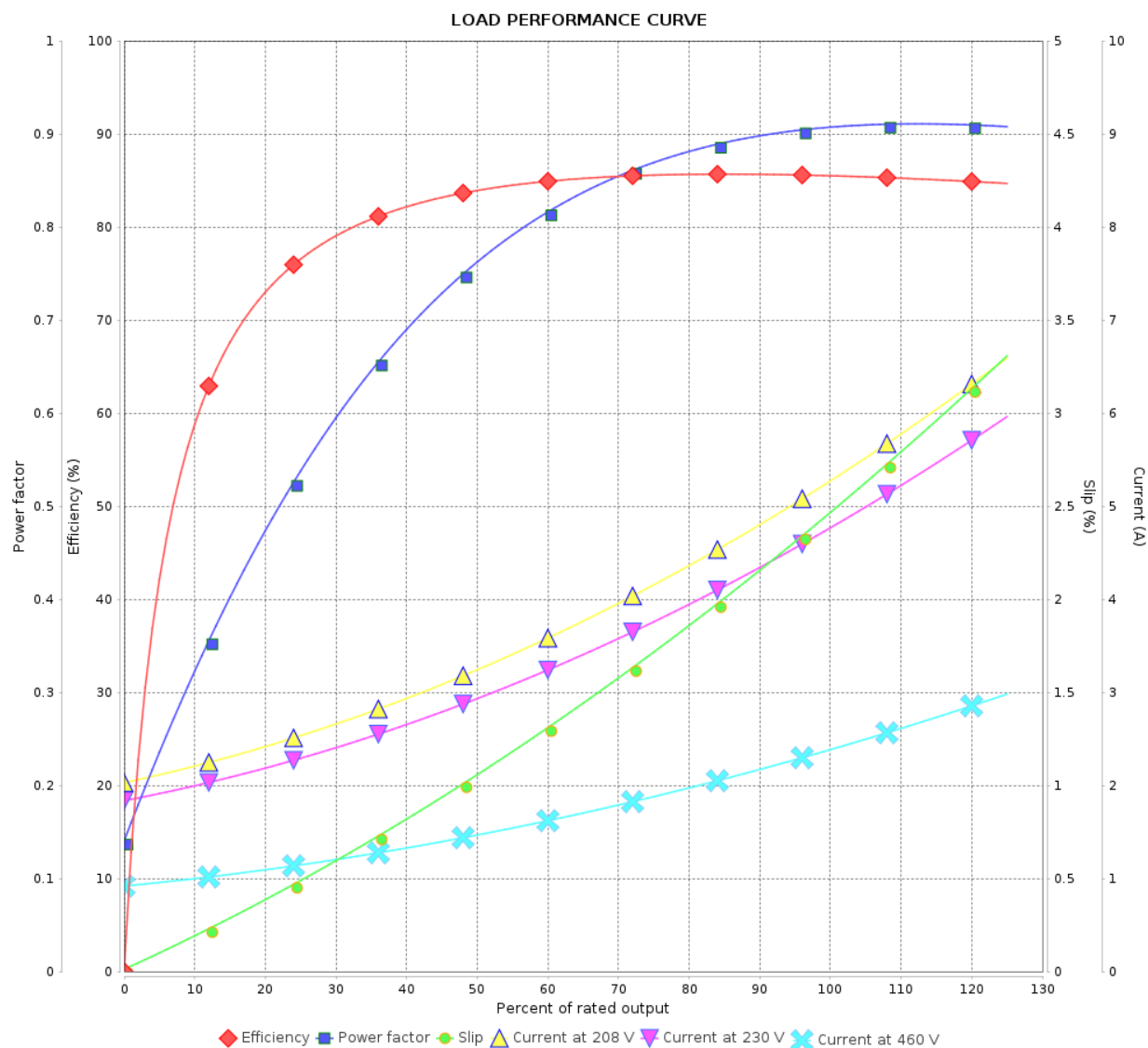
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Performance : 230/460 V 60 Hz 2P

Rated current : 4.84/2.42 A
LRC : 8.9
Rated torque : 0 kgfm
Locked rotor torque : 220 %
Breakdown torque : 330 %
Rated speed : 3510 rpm

Moment of inertia (J) : 0.0049 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor :
Temperature rise : 80 K
Design : A

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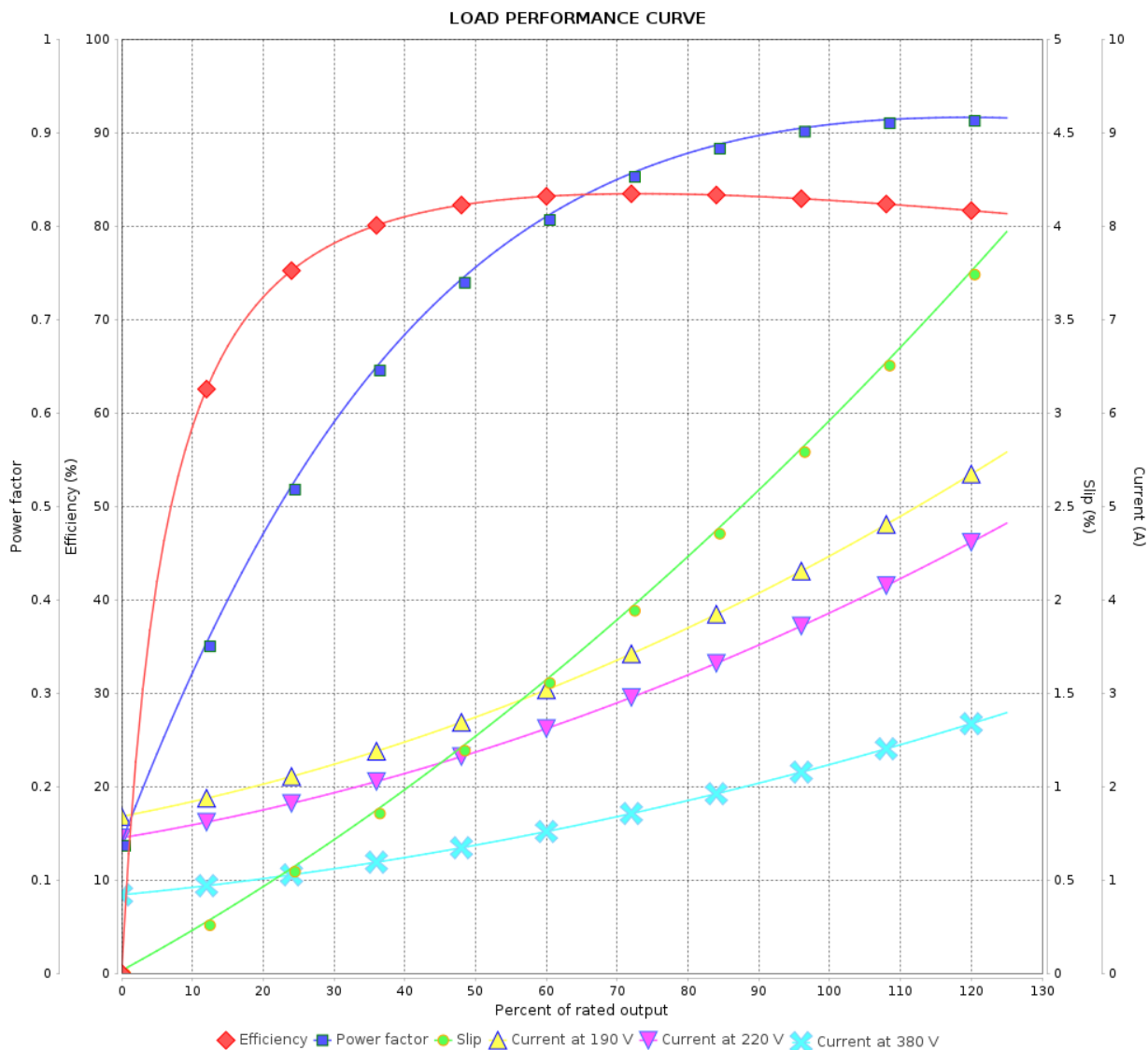
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Performance : 190-220/380 V 50 Hz 2P

Rated current : 4.44-3.83/2.22 A
 LRC : 6.8
 Rated torque : 0 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 310 %
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.0049 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.20
 Temperature rise : 80 K
 Design : A

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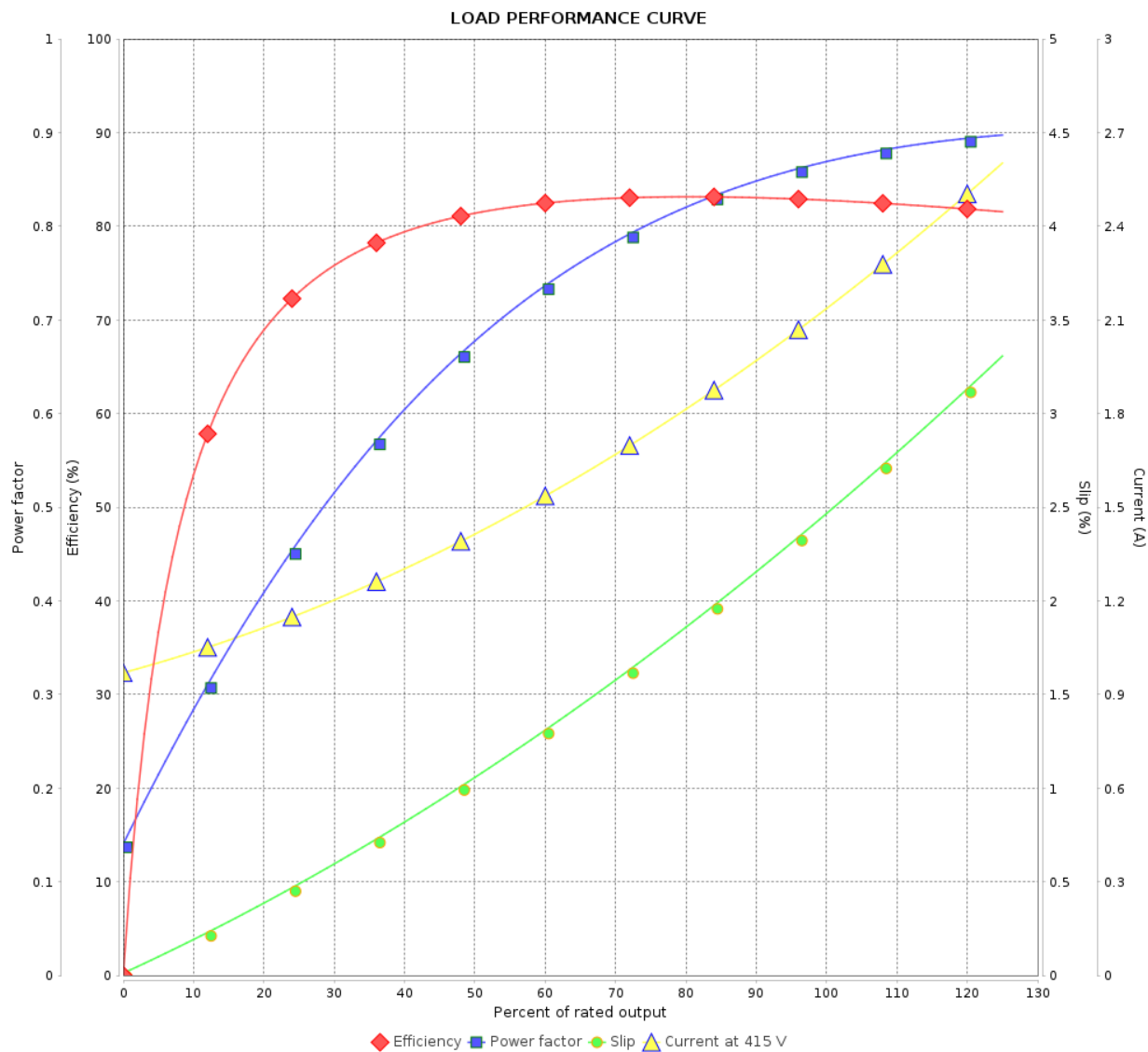
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Performance : 415 V 50 Hz 2P

Rated current : 2.13 A
LRC : 7.7
Rated torque : 0 kgfm
Locked rotor torque : 300 %
Breakdown torque : 380 %
Rated speed : 2925 rpm

Moment of inertia (J) : 0.0049 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.20
Temperature rise : 80 K
Design : A

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