

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Three-Phase Product code : 13722284

Frame	: W56C	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: W-6
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	: 9.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0011 kgm ²

Output [HP]	1	1	1
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	3.00/1.50	3.40/1.70	3.11/1.65
L. R. Amperes [A]	26.4/13.2	22.1/11.0	23.3/12.4
LRC [A]	8.8x(Code M)	6.5x(Code J)	7.5x(Code K)
No load current [A]	1.60/0.798	1.56/0.781	1.79/0.949
Rated speed [RPM]	3435	2770	2815
Slip [%]	4.58	7.67	6.17
Rated torque [kgfm]	0.211	0.262	0.258
Locked rotor torque [%]	360	280	330
Breakdown torque [%]	380	250	310
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	18s (cold) 10s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)
Noise level ²	65.0 dB(A)	64.0 dB(A)	64.0 dB(A)
Efficiency (%)	25%		
	50%	74.0	75.9
	75%	77.0	78.9
	100%	78.5	79.0
Power Factor	25%		
	50%	0.63	0.61
	75%	0.75	0.74
	100%	0.80	0.80

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6203 2RS	6202 2RS	Max. traction : 21 kgf
Sealing	: V'Ring	V'Ring	Max. compression : 30 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 3.32A SF 1.00 SFA 3.32A

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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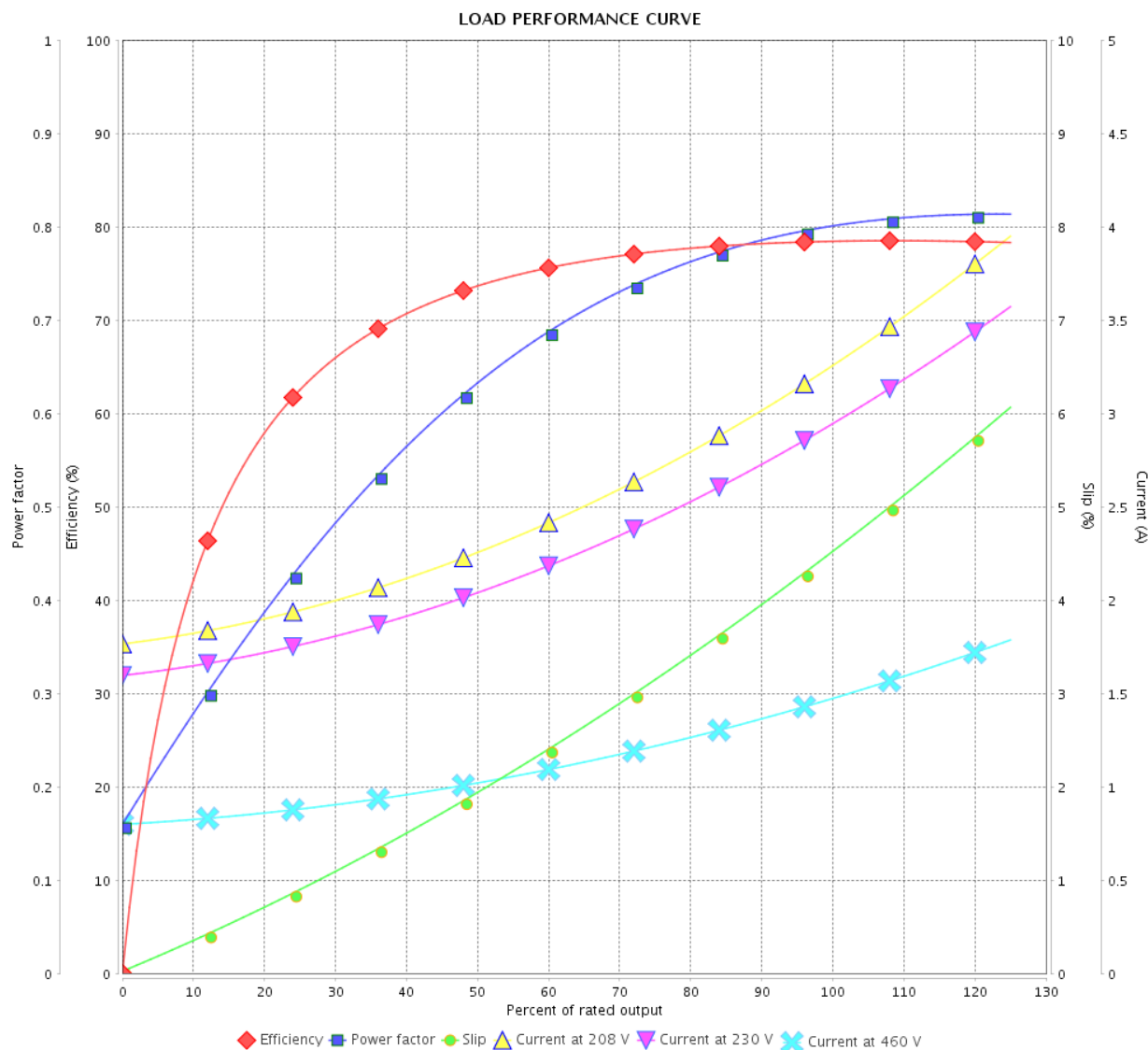
Three Phase Induction Motor - Squirrel Cage



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Performance : 230/460 V 60 Hz 2P

Rated current : 3.00/1.50 A
 LRC : 8.8
 Rated torque : 0.211 kgfm
 Locked rotor torque : 360 %
 Breakdown torque : 380 %
 Rated speed : 3435 rpm

Moment of inertia (J) : 0.0011 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

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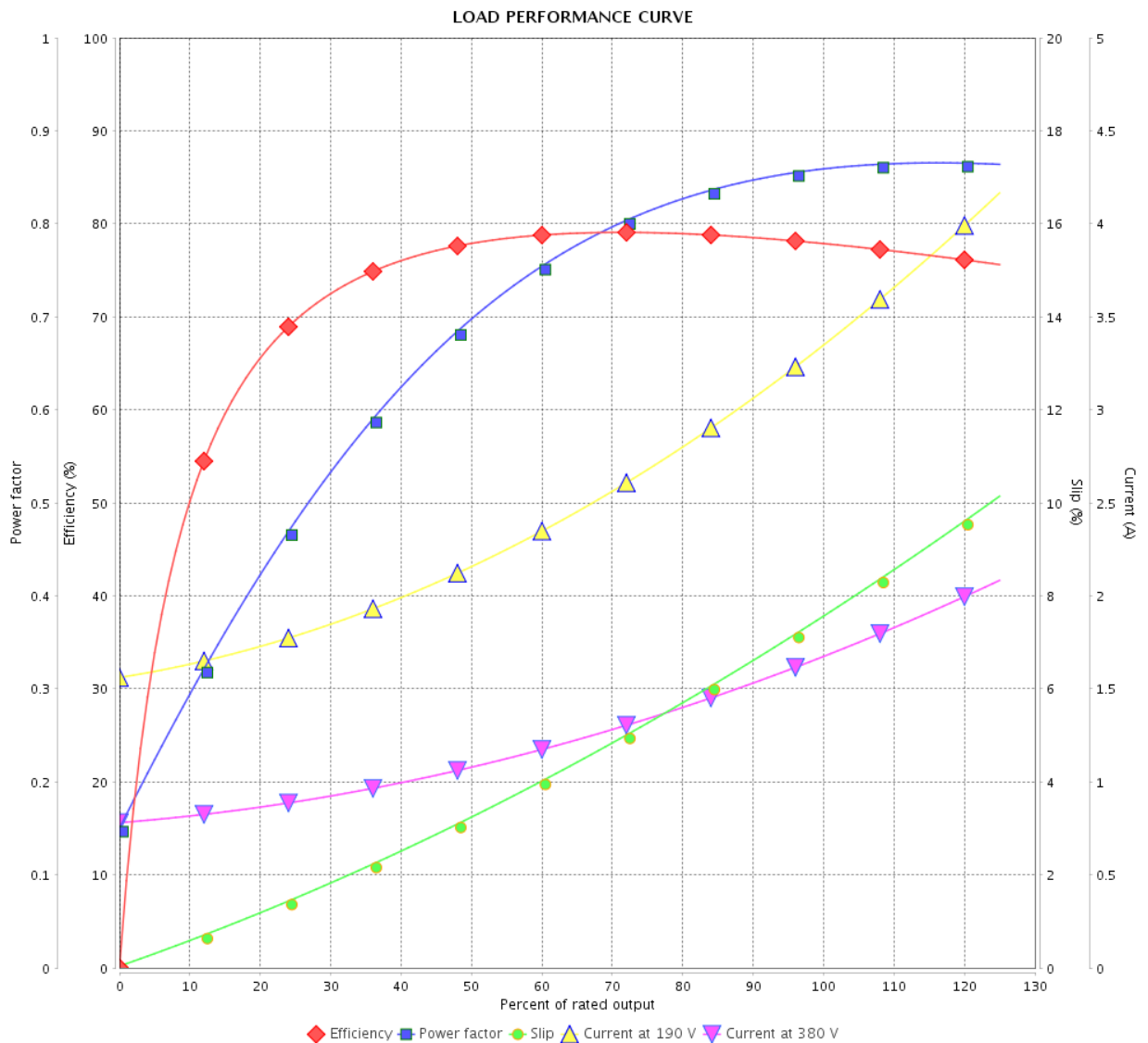
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 190/380 V 50 Hz 2P

Rated current : 3.40/1.70 A
 LRC : 6.5
 Rated torque : 0.262 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 250 %
 Rated speed : 2770 rpm

Moment of inertia (J) : 0.0011 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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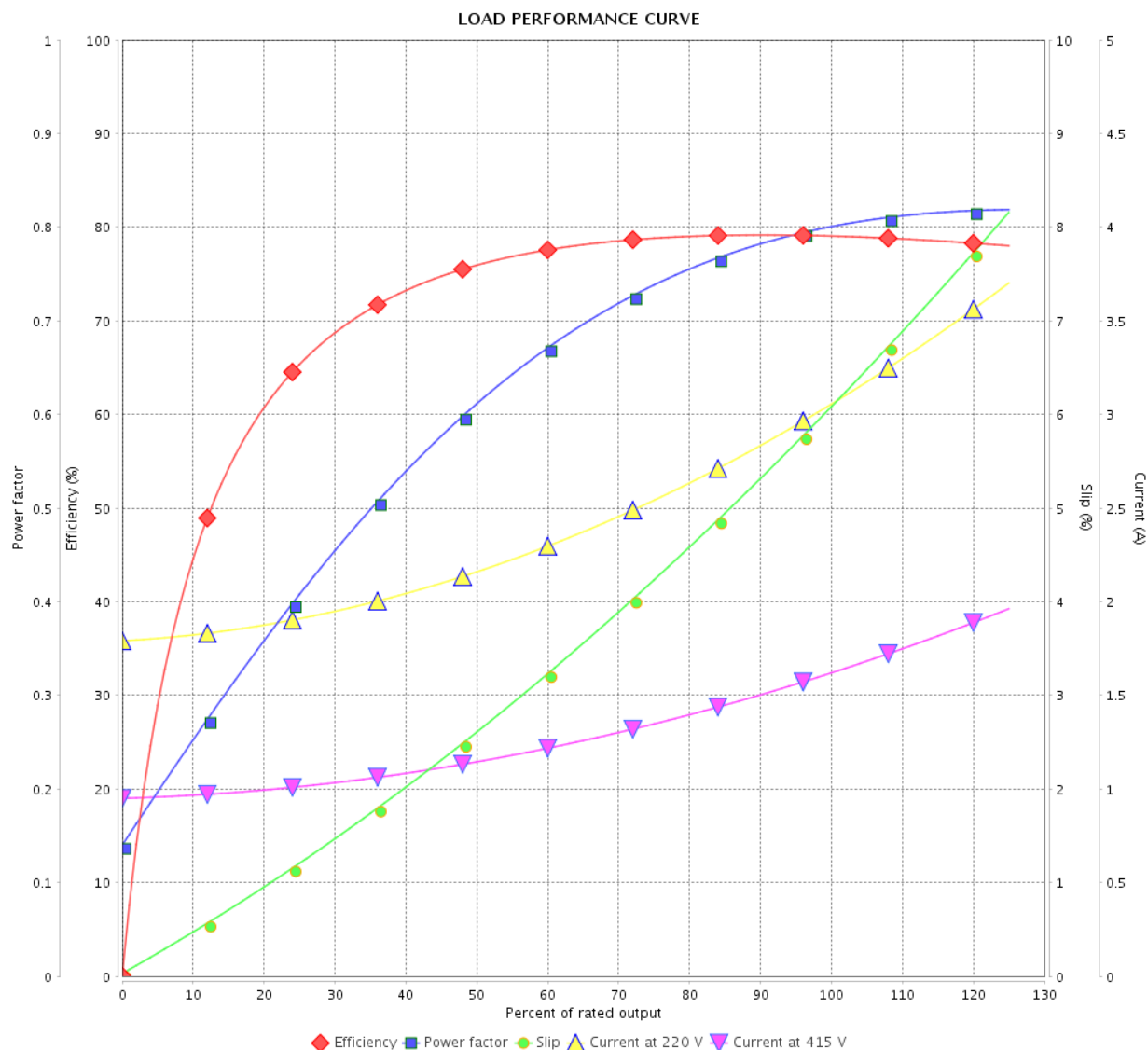
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 220/415 V 50 Hz 2P

Rated current : 3.11/1.65 A
 LRC : 7.5
 Rated torque : 0.258 kgfm
 Locked rotor torque : 330 %
 Breakdown torque : 310 %
 Rated speed : 2815 rpm

Moment of inertia (J) : 0.0011 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K

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