

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type 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	: 16.6 kg
Design	: A	Moment of inertia (J)	: 0.0049 kgm ²

Output [HP]	2	2	2
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	4.84/2.42	5.88/2.94	5.26/2.79
L. R. Amperes [A]	43.1/21.5	40.6/20.3	40.0/21.2
LRC [A]	8.9x(Code K)	6.9x(Code H)	7.6x(Code J)
No load current [A]	1.83/0.917	1.81/0.906	1.84/0.978
Rated speed [RPM]	3510	2890	2900
Slip [%]	2.50	3.67	3.33
Rated torque [kgfm]	0.414	0.502	0.501
Locked rotor torque [%]	220	180	200
Breakdown torque [%]	330	250	280
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	83.5
	75%	85.5	84.0
	100%	85.5	84.3
Power Factor	25%		
	50%	0.77	0.80
	75%	0.86	0.88
	100%	0.91	0.92

Bearing type	: 6203 2RS	Non drive end	6202 2RS	Foundation loads	
	: Without	Without			
Sealing	: Bearing Seal	Bearing Seal		Max. traction	: 36 kgf
				Max. compression	: 53 kgf
Lubrication interval	: -	-			
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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
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Date	11/05/2022			

Page 1 / 4
Revision

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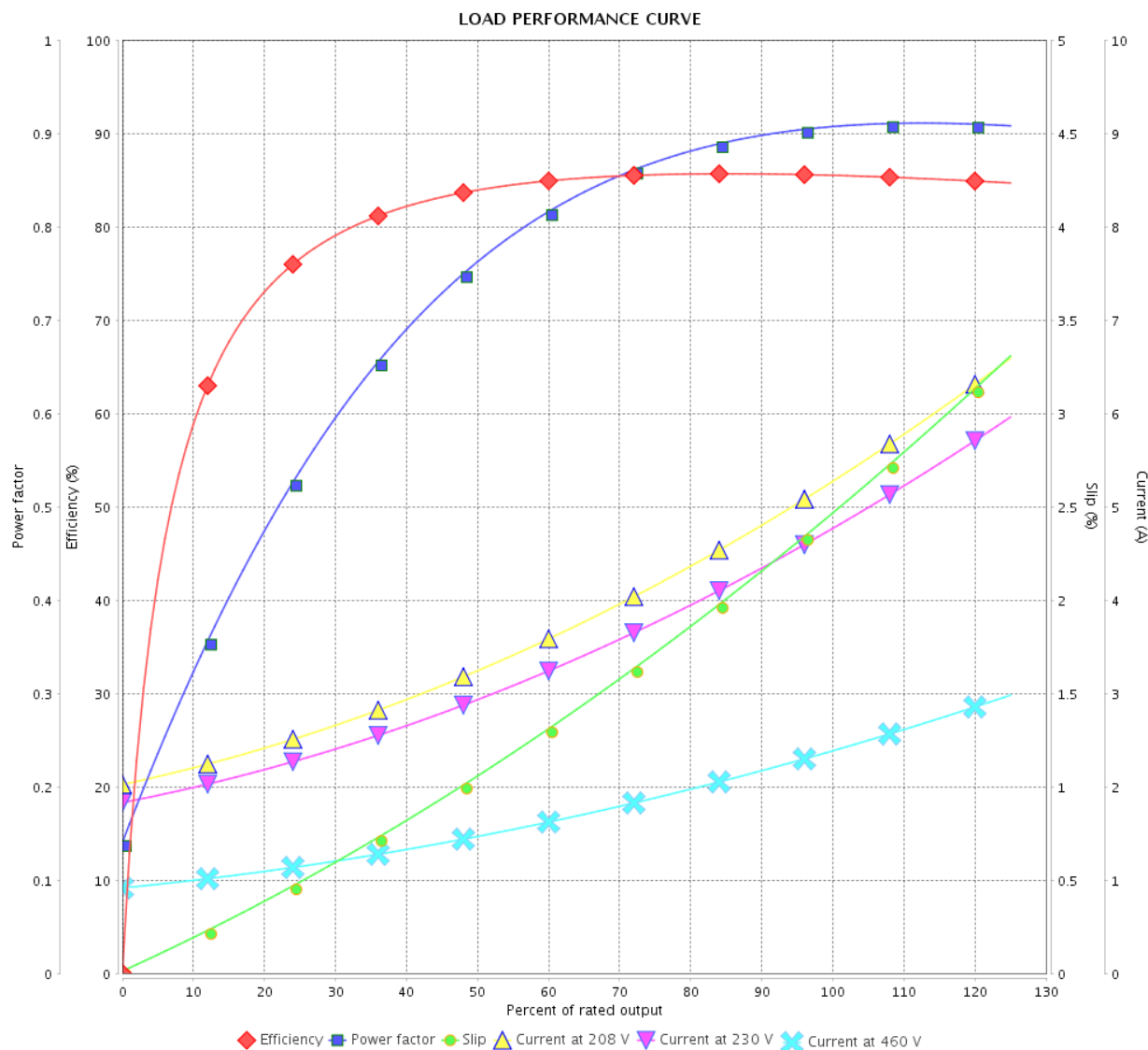
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 230/460 V 60 Hz 2P

Rated current : 4.84/2.42 A
 LRC : 8.9
 Rated torque : 0.414 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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 4	Revision
Checked by					
Date	11/05/2022				

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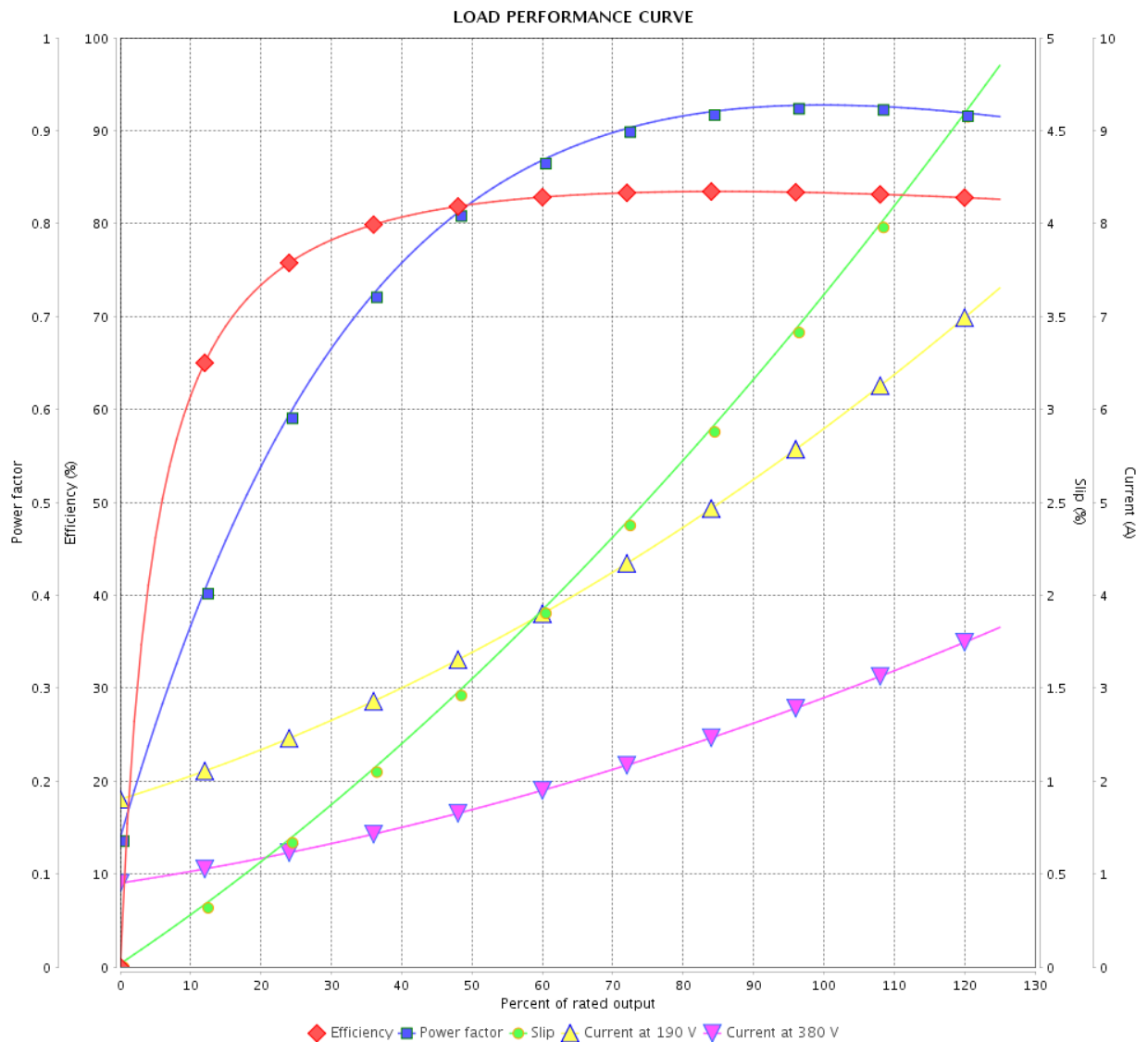
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 190/380 V 50 Hz 2P

Rated current : 5.88/2.94 A
 LRC : 6.9
 Rated torque : 0.502 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 250 %
 Rated speed : 2890 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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 4Revision		
Checked by				
Date	11/05/2022			

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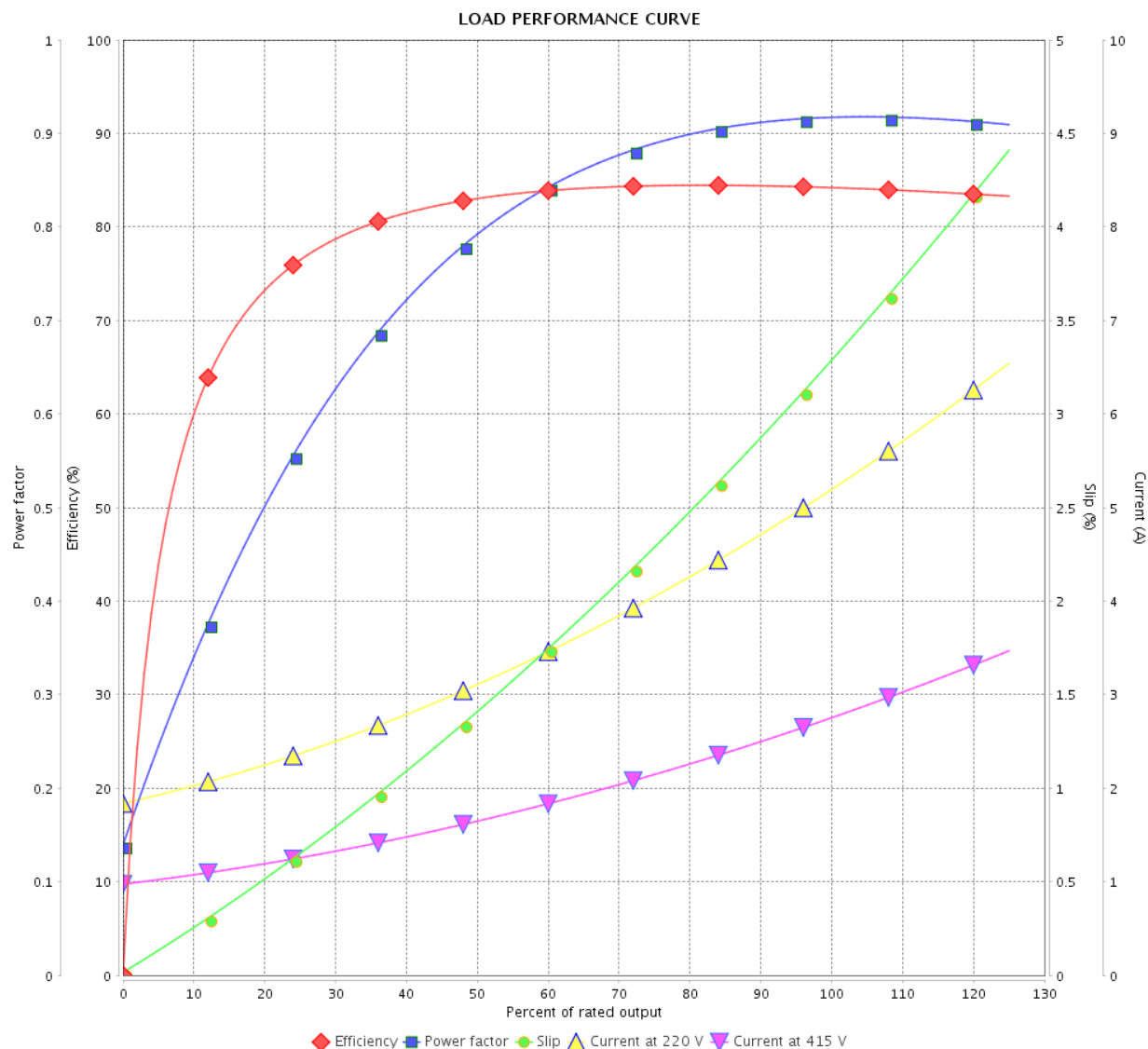
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 220/415 V 50 Hz 2P

Rated current : 5.26/2.79 A
 LRC : 7.6
 Rated torque : 0.501 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 280 %
 Rated speed : 2900 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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 4 / 4Revision		
Checked by				
Date	11/05/2022			

