

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase Product code : 11261479

Frame	: 324JM	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 ³	: 223 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.1615 kgm ²
Design	: B		

Output [HP]	50	40	40	40	50	50	50
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	118/59.1	58.2	57.3	56.6	71.5	69.6	67.9
L. R. Amperes [A]	756/378	361	384	402	358	383	401
LRC [A]	6.4x(Code G)	6.2x(Code G)	6.7x(Code H)	7.1x(Code J)	5.0x(Code E)	5.5x(Code F)	5.9x(Code G)
No load current [A]	41.0/20.5	19.0	22.0	24.5	19.0	22.0	24.5
Rated speed [RPM]	3565	2965	2965	2970	2950	2955	2960
Slip [%]	0.97	1.17	1.17	1.00	1.67	1.50	1.33
Rated torque [kgfm]	10.2	9.79	9.79	9.77	12.3	12.3	12.3
Locked rotor torque [%]	229	229	240	270	200	200	210
Breakdown torque [%]	240	240	270	290	200	210	229
Service factor	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	50s (cold) 28s (hot)	54s (cold) 30s (hot)	48s (cold) 27s (hot)	45s (cold) 25s (hot)	54s (cold) 30s (hot)	48s (cold) 27s (hot)	45s (cold) 25s (hot)
Noise level ²	74.0 dB(A)						
Efficiency (%)	25%	92.2	88.0	87.9	88.6	90.1	90.1
	50%	92.4	89.8	89.6	90.0	91.0	91.0
	75%	93.6	91.4	91.6	92.0	91.7	91.7
	100%	93.6	93.3	93.3	93.4	92.5	92.5
Power Factor	25%	0.49	0.50	0.44	0.40	0.56	0.50
	50%	0.74	0.74	0.68	0.64	0.78	0.73
	75%	0.82	0.81	0.77	0.73	0.84	0.81
	100%	0.84	0.84	0.81	0.79	0.85	0.83

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6312 Z C3	6212 Z C3	Max. traction : 243 kgf
Sealing	: Without	Without	Max. compression : 466 kgf
	<u>Bearing Seal</u>	<u>Bearing Seal</u>	
Lubrication interval	: 19658 h	20000 h	
Lubricant amount	: 21 g	13 g	
Lubricant type	: Mobil Polyrex EM		

Notes
USABLE @208V 131A SF 1.15 SFA 150A

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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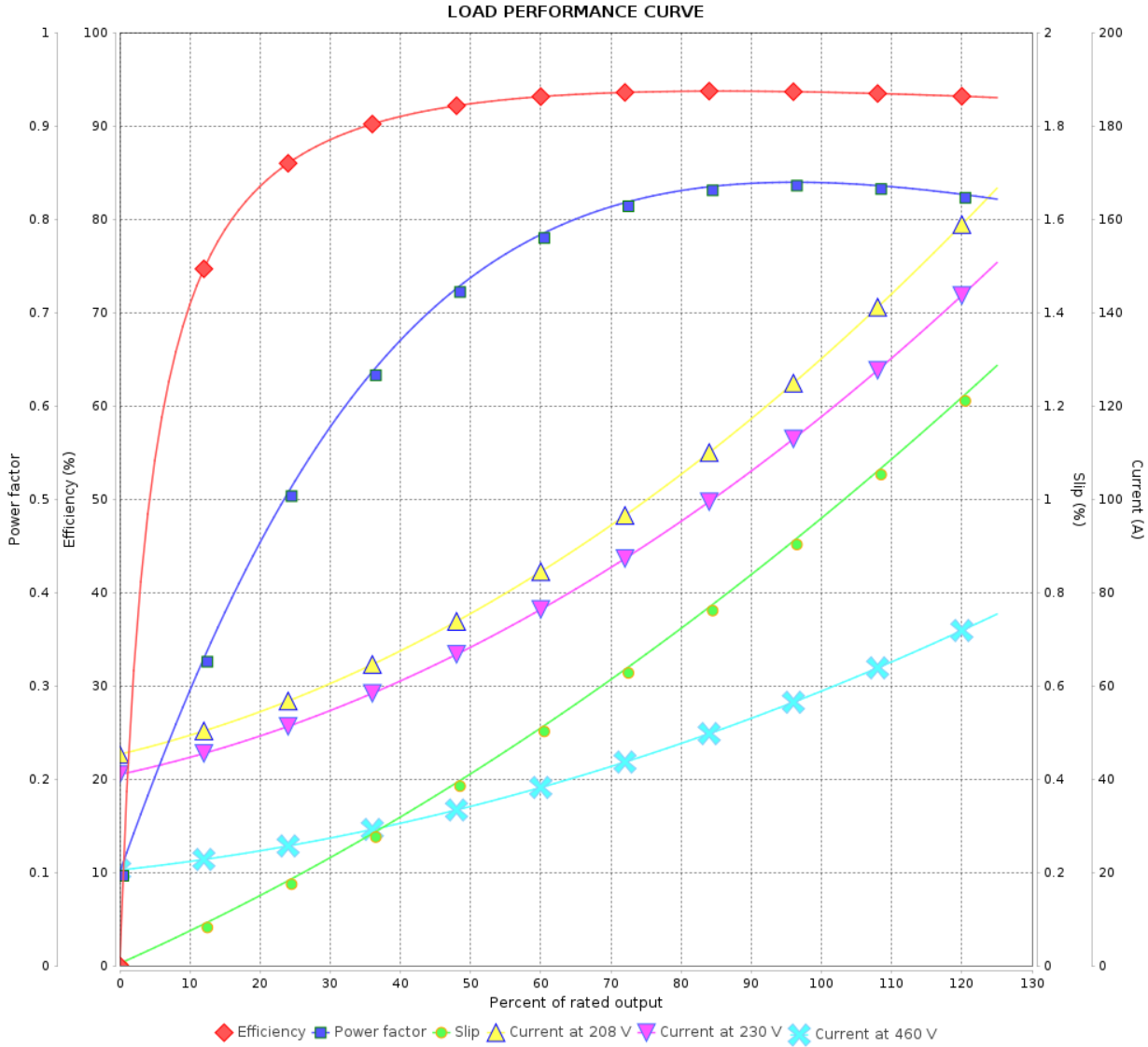
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11261479



Performance : 230/460 V 60 Hz 2P

Rated current : 118/59.1 A
LRC : 6.4
Rated torque : 10.2 kgfm
Locked rotor torque : 229 %
Breakdown torque : 240 %
Rated speed : 3565 rpm

Moment of inertia (J) : 0.1615 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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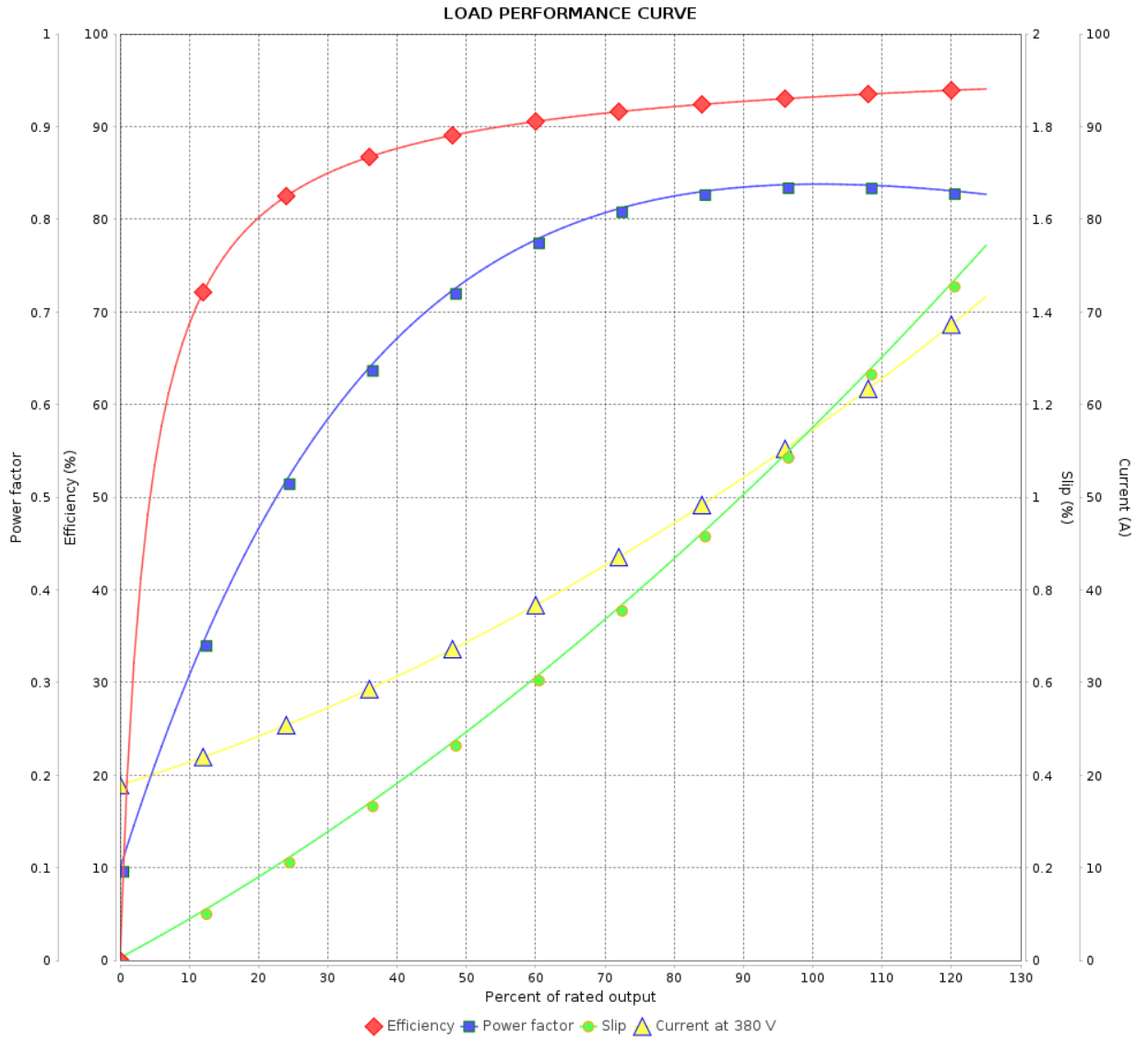
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11261479



Performance : 380 V 50 Hz 2P IE3

Rated current : 58.2 A
 LRC : 6.2
 Rated torque : 9.79 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 240 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 0.1615 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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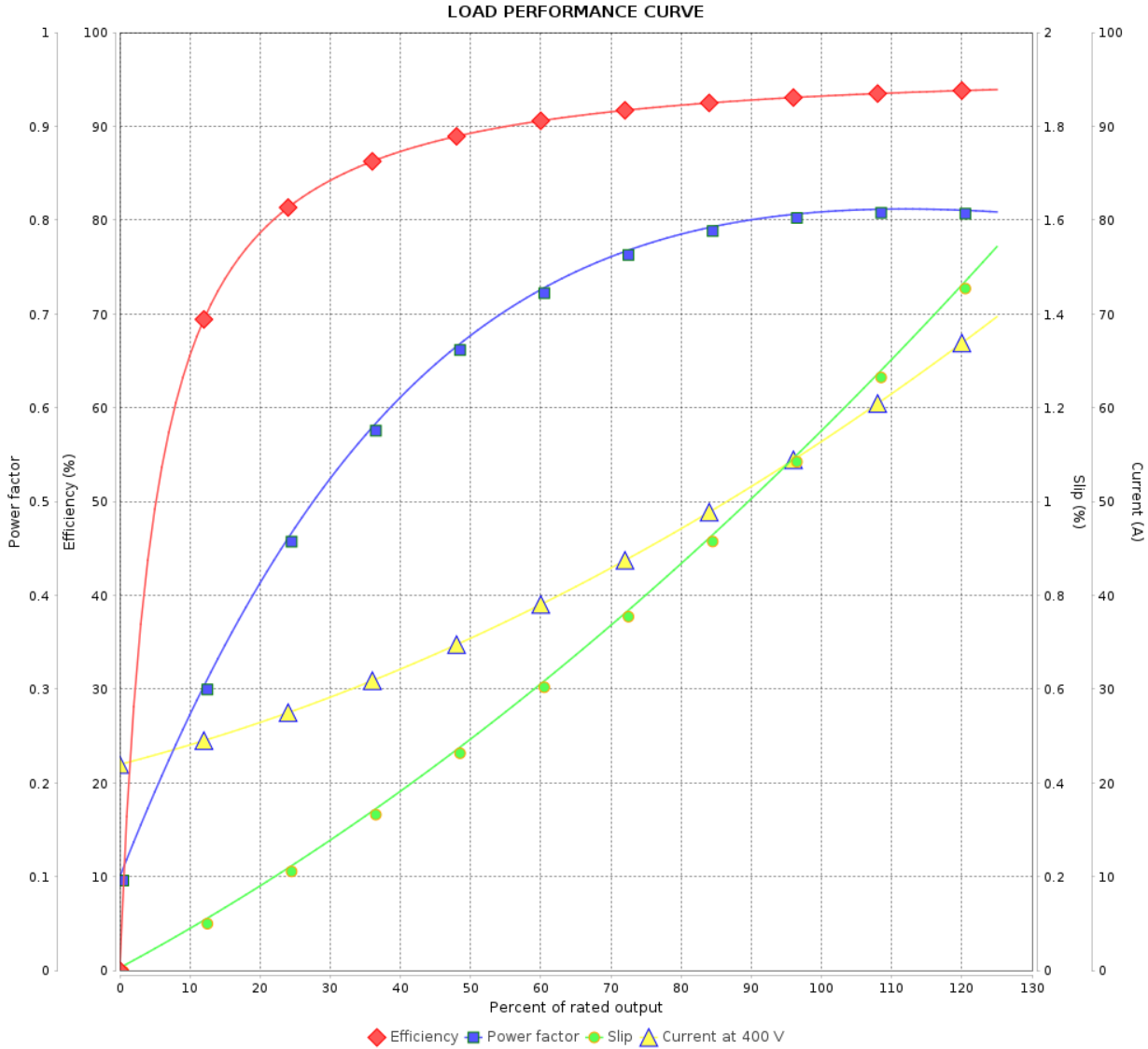
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11261479



Performance : 400 V 50 Hz 2P IE3

Rated current : 57.3 A
 LRC : 6.7
 Rated torque : 9.79 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 0.1615 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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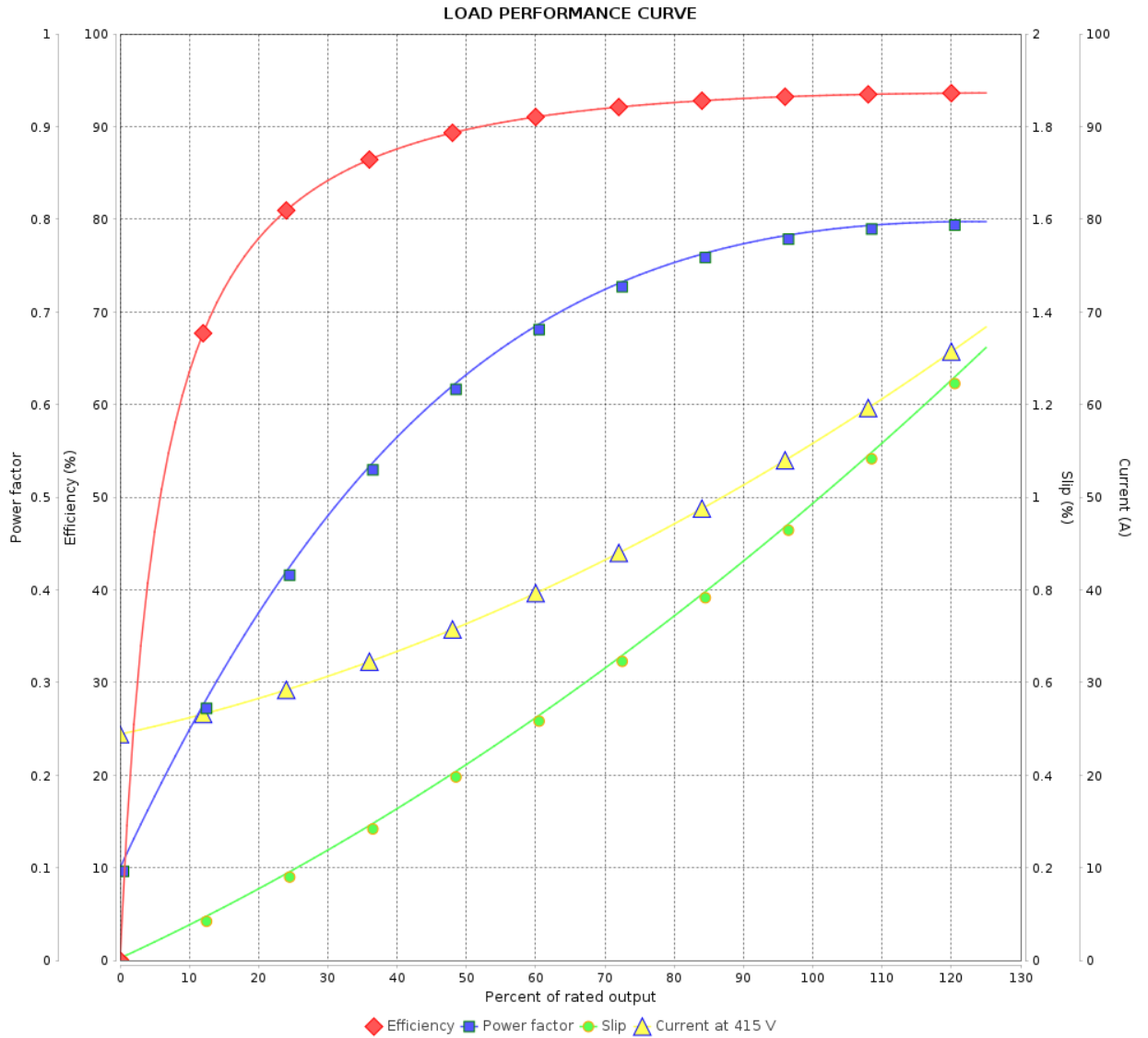
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11261479



Performance : 415 V 50 Hz 2P IE3

Rated current : 56.6 A
 LRC : 7.1
 Rated torque : 9.77 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 290 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 0.1615 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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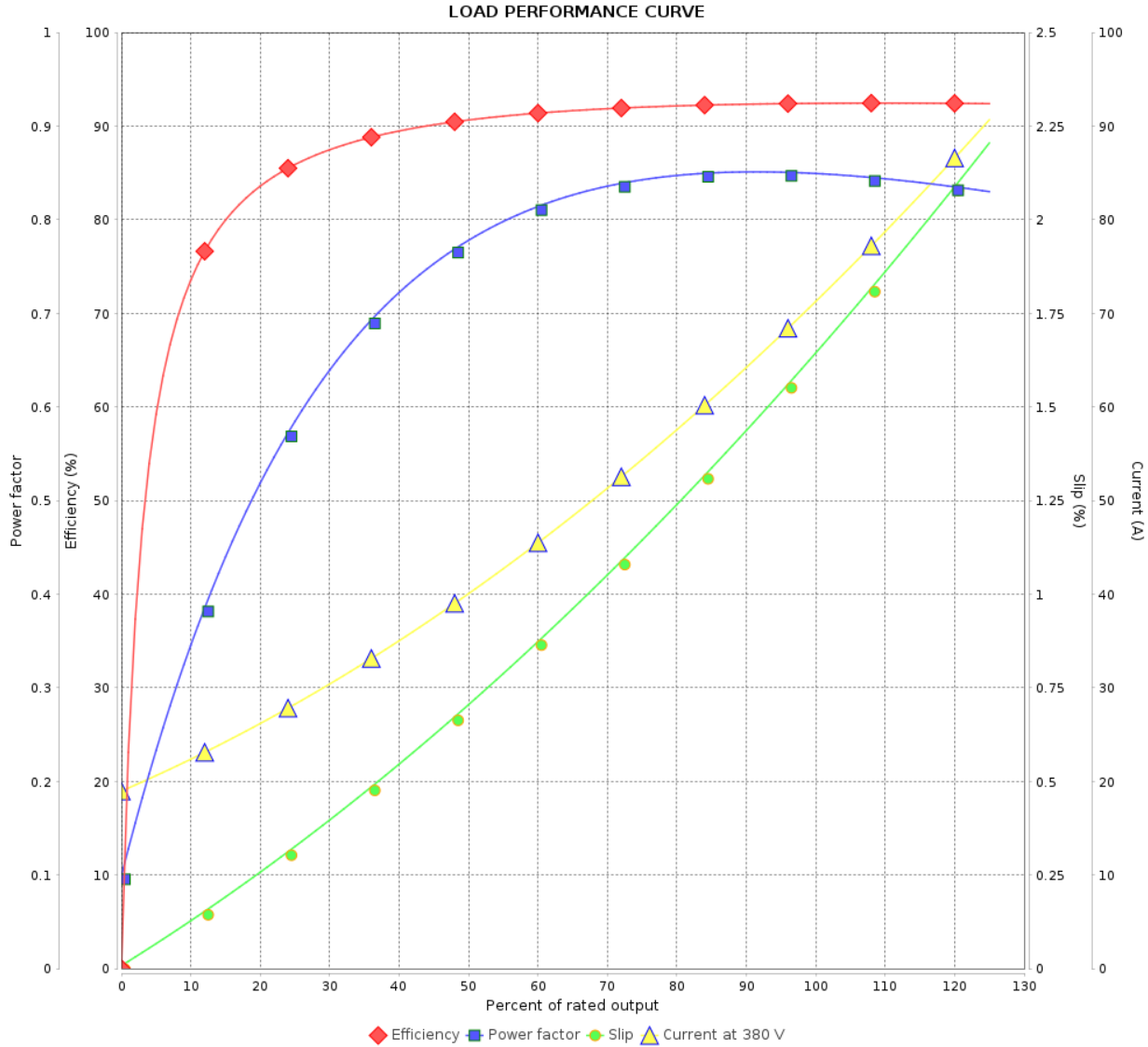
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11261479



Performance : 380 V 50 Hz 2P IE2

Rated current : 71.5 A
LRC : 5.0
Rated torque : 12.3 kgfm
Locked rotor torque : 200 %
Breakdown torque : 200 %
Rated speed : 2950 rpm

Moment of inertia (J) : 0.1615 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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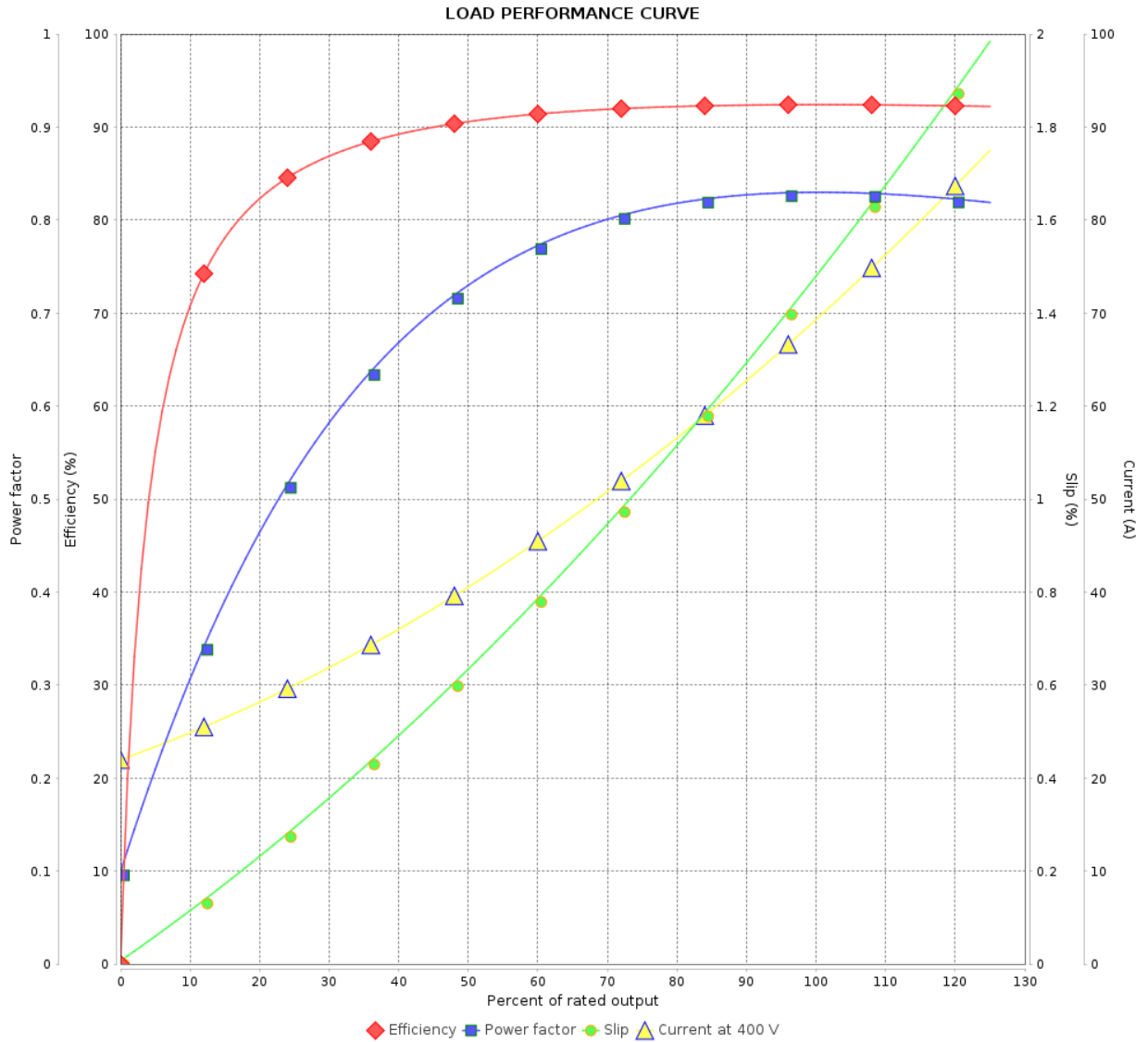
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11261479



Performance : 400 V 50 Hz 2P IE2

Rated current : 69.6 A
 LRC : 5.5
 Rated torque : 12.3 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 210 %
 Rated speed : 2955 rpm

Moment of inertia (J) : 0.1615 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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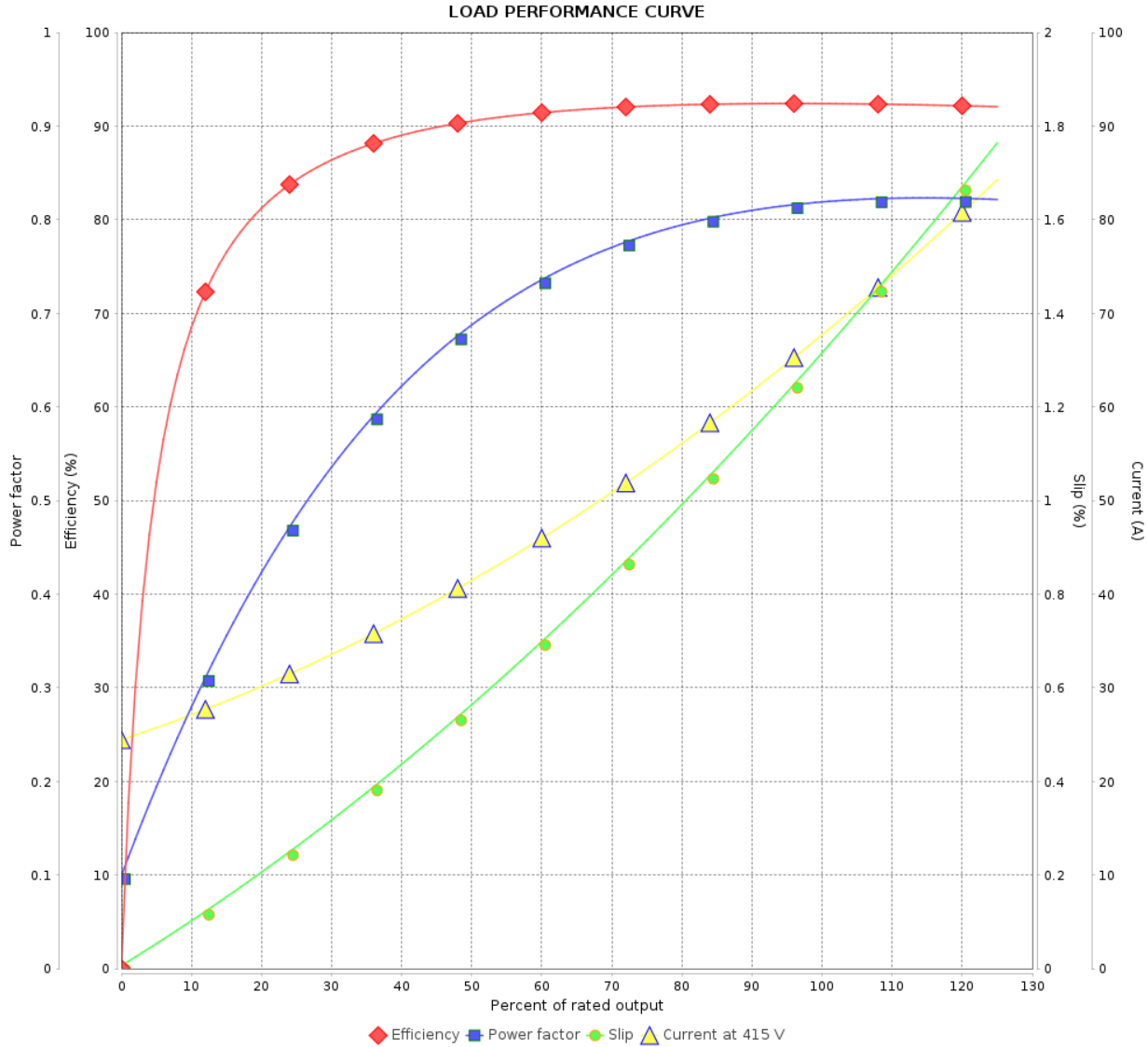
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11261479



Performance : 415 V 50 Hz 2P IE2

Rated current : 67.9 A
 LRC : 5.9
 Rated torque : 12.3 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 229 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 0.1615 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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