

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase Product code : 12011991

Frame	: 184JM	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: W-6
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 ²	: 35.3 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0147 kgm ²
Design	: B		

Output [HP]	5	4	4	4	5	5	5
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	12.8/6.41	6.58	6.58	6.52	7.74	7.63	7.54
L. R. Amperes [A]	93.6/46.8	44.7	46.7	49.6	44.1	46.5	49.0
LRC [A]	7.3x(Code J)	6.8x(Code J)	7.1x(Code K)	7.6x(Code L)	5.7x(Code G)	6.1x(Code H)	6.5x(Code J)
No load current [A]	6.00/3.00	3.15	3.43	3.71	3.15	3.43	3.71
Rated speed [RPM]	1755	1450	1455	1460	1435	1440	1450
Slip [%]	2.50	3.33	3.00	2.67	4.33	4.00	3.33
Rated torque [kgfm]	2.07	2.00	1.99	1.98	2.53	2.52	2.50
Locked rotor torque [%]	210	229	250	290	180	200	229
Breakdown torque [%]	290	290	320	350	229	250	280
Service factor	1.15	1.15	1.15	1.15	1.00	1.15	1.15
Temperature rise	105 K	105 K	105 K	105 K	105 K	105 K	105 K
Locked rotor time	21s (cold) 12s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)
Noise level ²	55.0 dB(A)						
Efficiency (%)	25%						
	50%	88.5	83.3	83.1	82.9	85.5	85.5
	75%	89.5	86.0	86.1	86.1	86.5	86.5
	100%	89.5	87.7	87.7	87.7	87.5	87.5
Power Factor	25%						
	50%	0.63	0.60	0.55	0.51	0.67	0.62
	75%	0.75	0.72	0.68	0.64	0.78	0.74
	100%	0.81	0.79	0.75	0.73	0.83	0.80

Bearing type	: Drive end	6207 ZZ	Non drive end	6205 ZZ	Foundation loads	Max. traction	: 129 kgf
	: Sealing	Without	Without	Max. compression		: 164 kgf	
		Bearing Seal	Bearing Seal				
Lubrication interval	: -	-					
Lubricant amount	: -	-					
Lubricant type	: Mobil Polyrex EM						

Notes
USABLE @208V 14.2A SF 1.15 SFA 16.3A

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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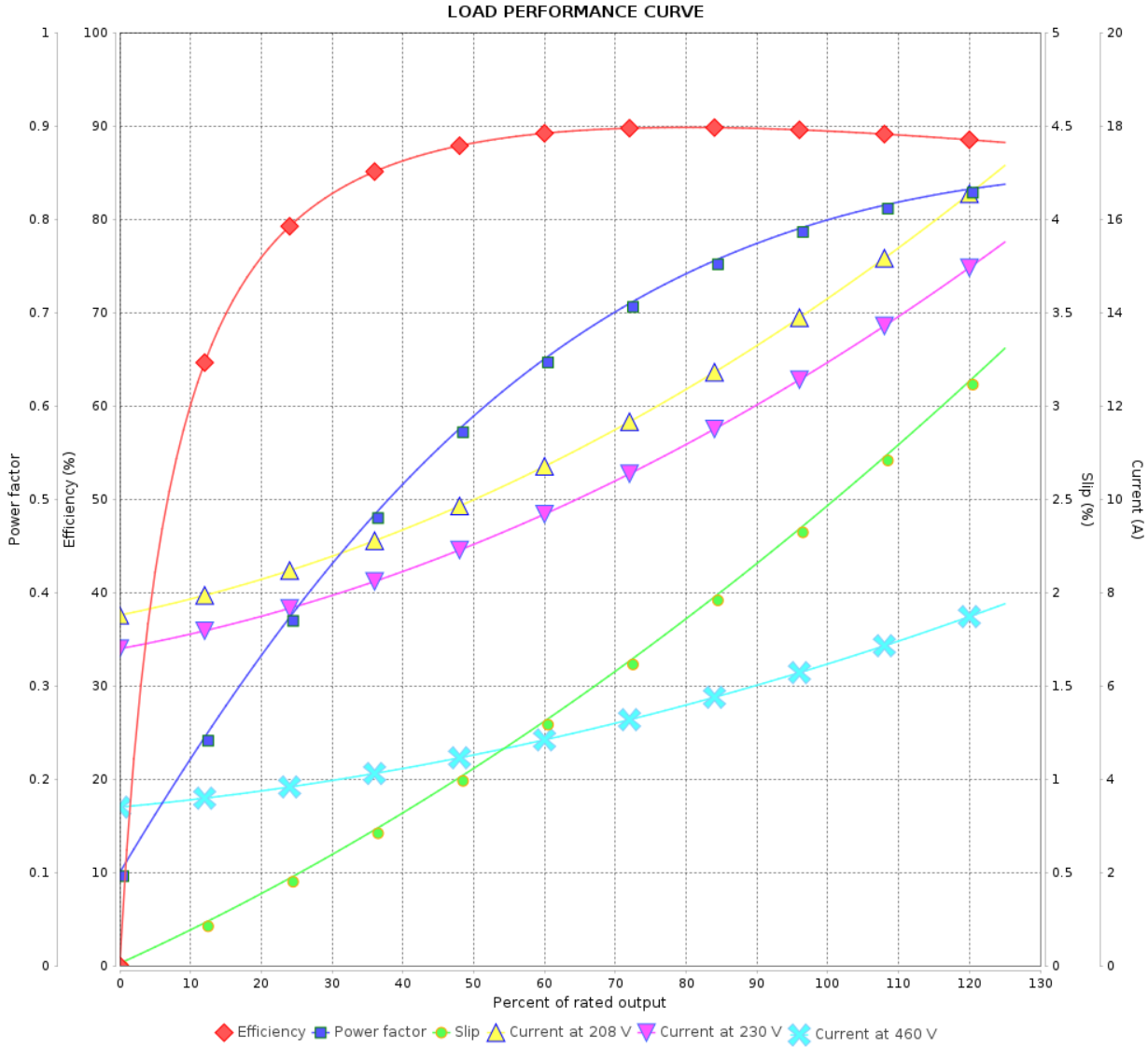
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 12011991



Performance : 230/460 V 60 Hz 4P

Rated current : 12.8/6.41 A
 LRC : 7.3
 Rated torque : 2.07 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 290 %
 Rated speed : 1755 rpm

Moment of inertia (J) : 0.0147 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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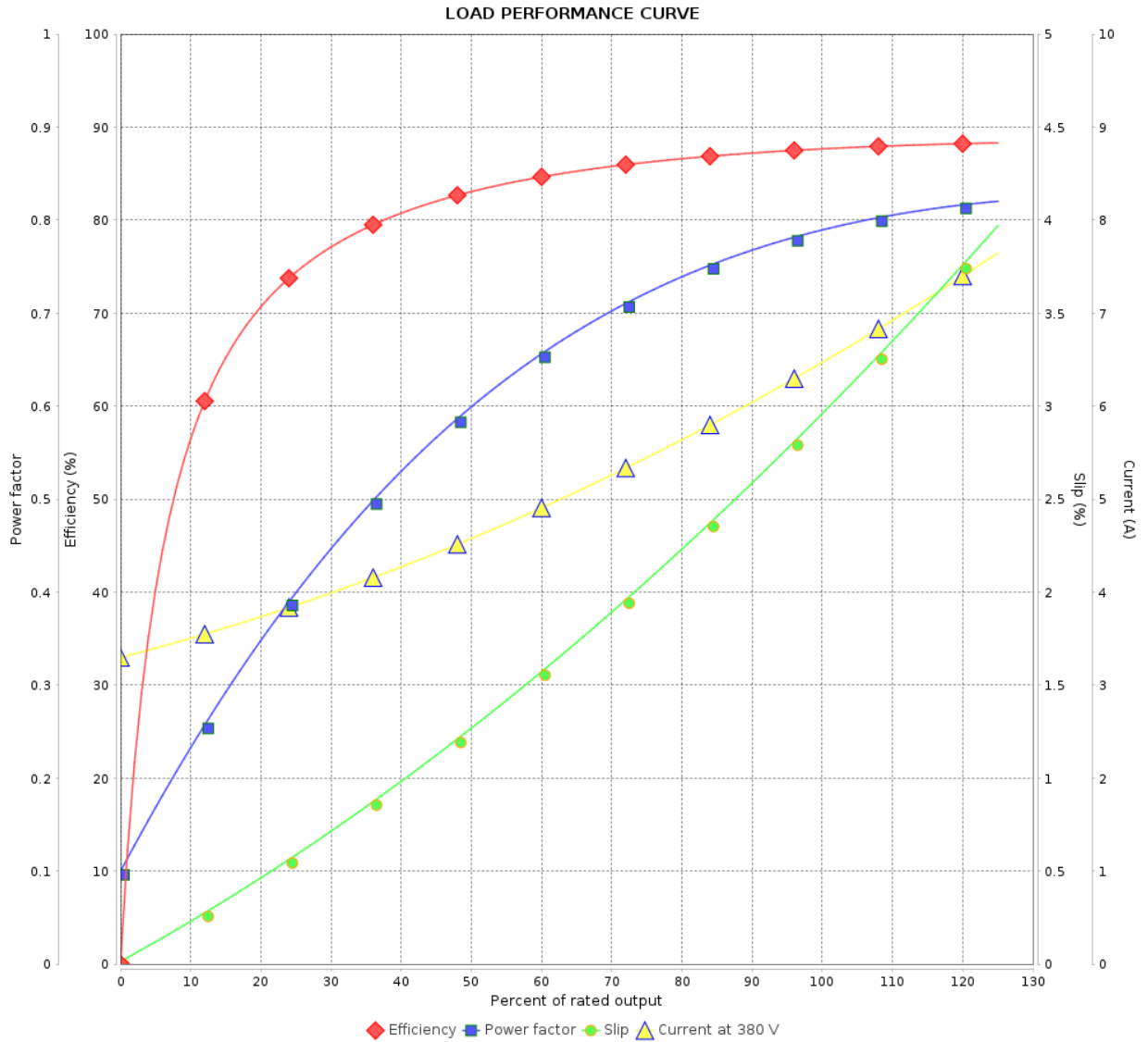
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 12011991



Performance : 380 V 50 Hz 4P IE3

Rated current : 6.58 A
 LRC : 6.8
 Rated torque : 2.00 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0147 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

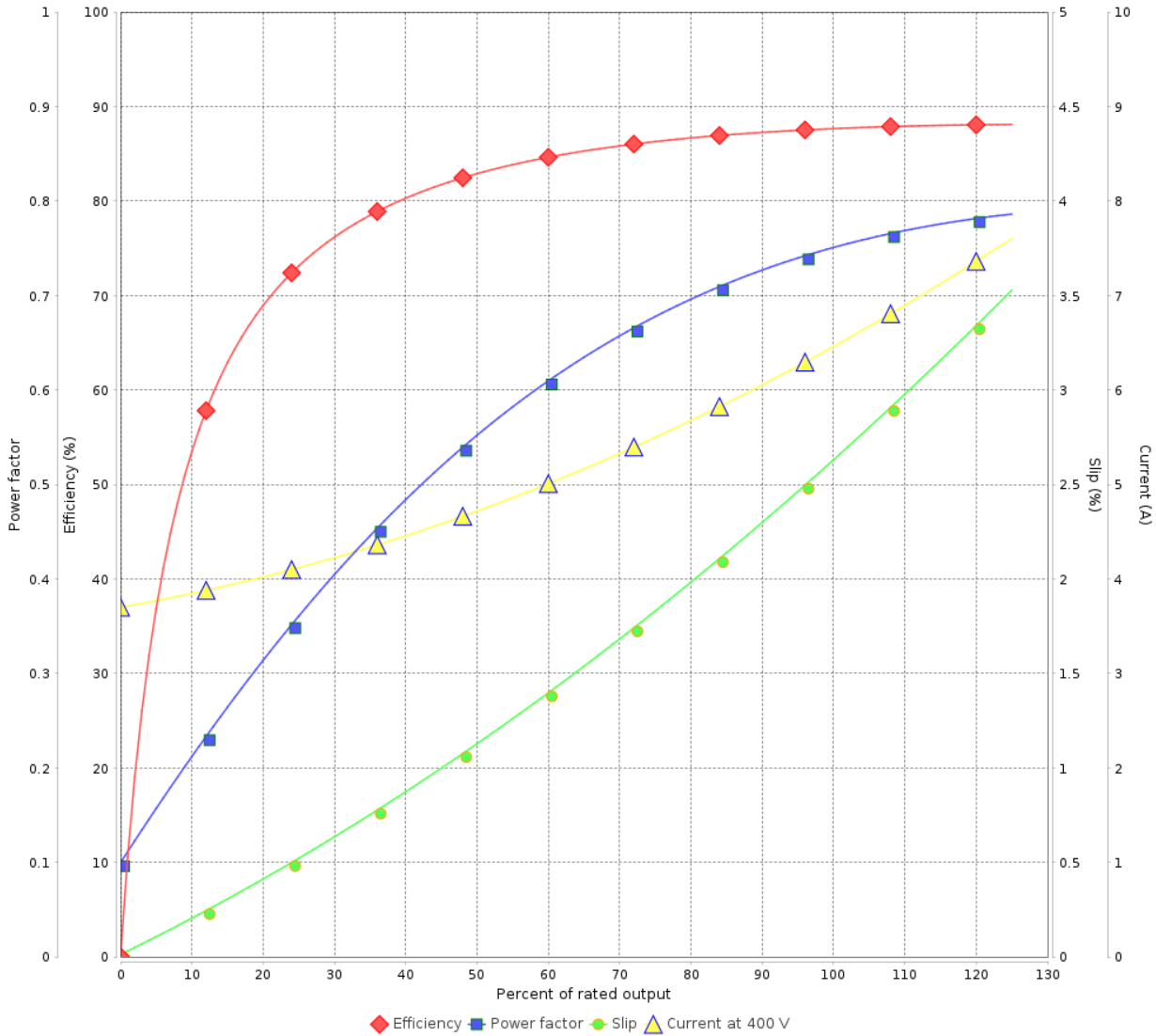


Customer :

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

Product code : 12011991

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Performance : 400 V 50 Hz 4P IE3

Rated current : 6.58 A
LRC : 7.1
Rated torque : 1.99 kgfm
Locked rotor torque : 250 %
Breakdown torque : 320 %
Rated speed : 1455 rpm

Moment of inertia (J) : 0.0147 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 105 K
Design : B

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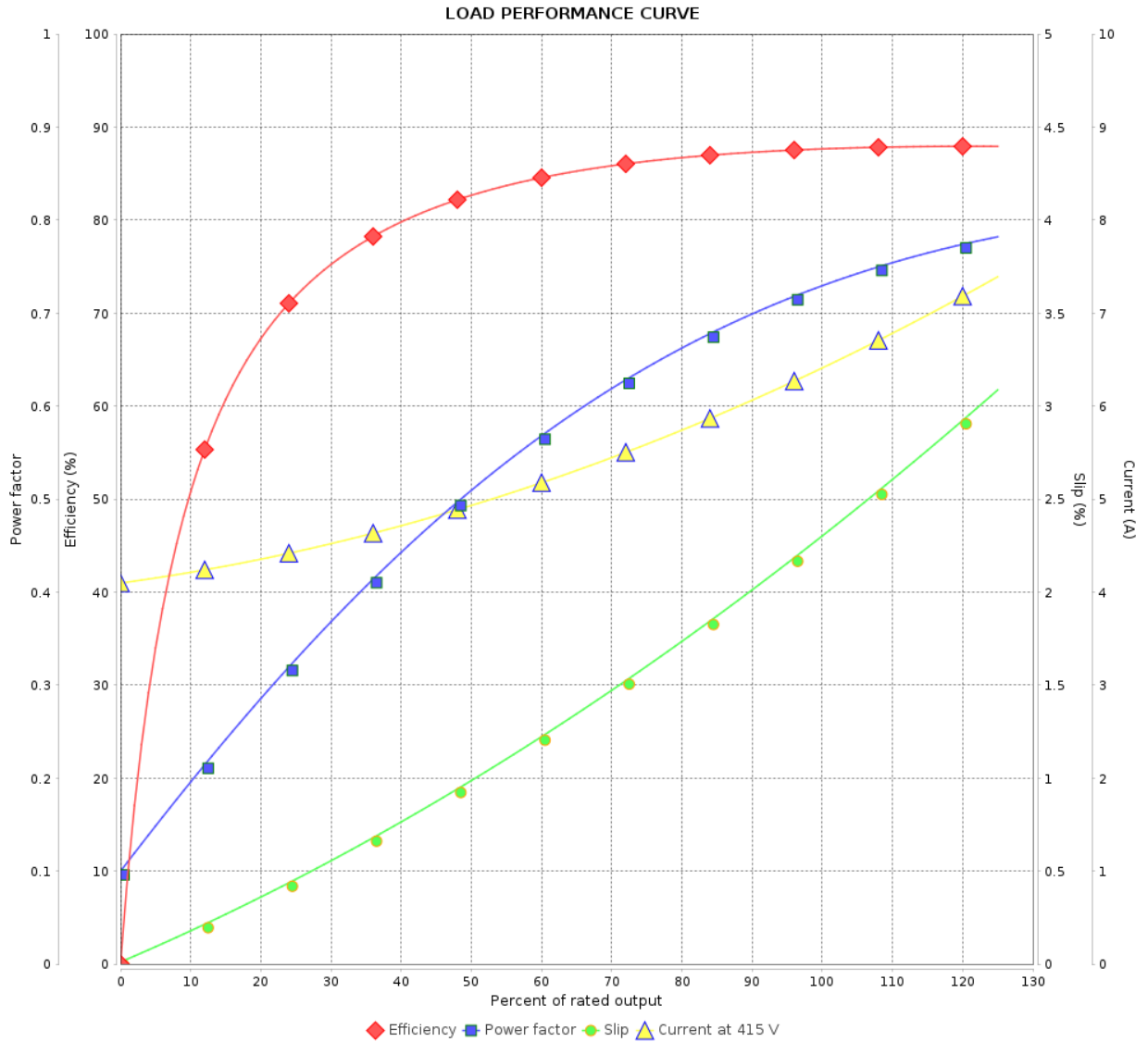
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12011991



Performance : 415 V 50 Hz 4P IE3

Rated current : 6.52 A
LRC : 7.6
Rated torque : 1.98 kgfm
Locked rotor torque : 290 %
Breakdown torque : 350 %
Rated speed : 1460 rpm

Moment of inertia (J) : 0.0147 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 105 K
Design : B

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Three Phase Induction Motor - Squirrel Cage

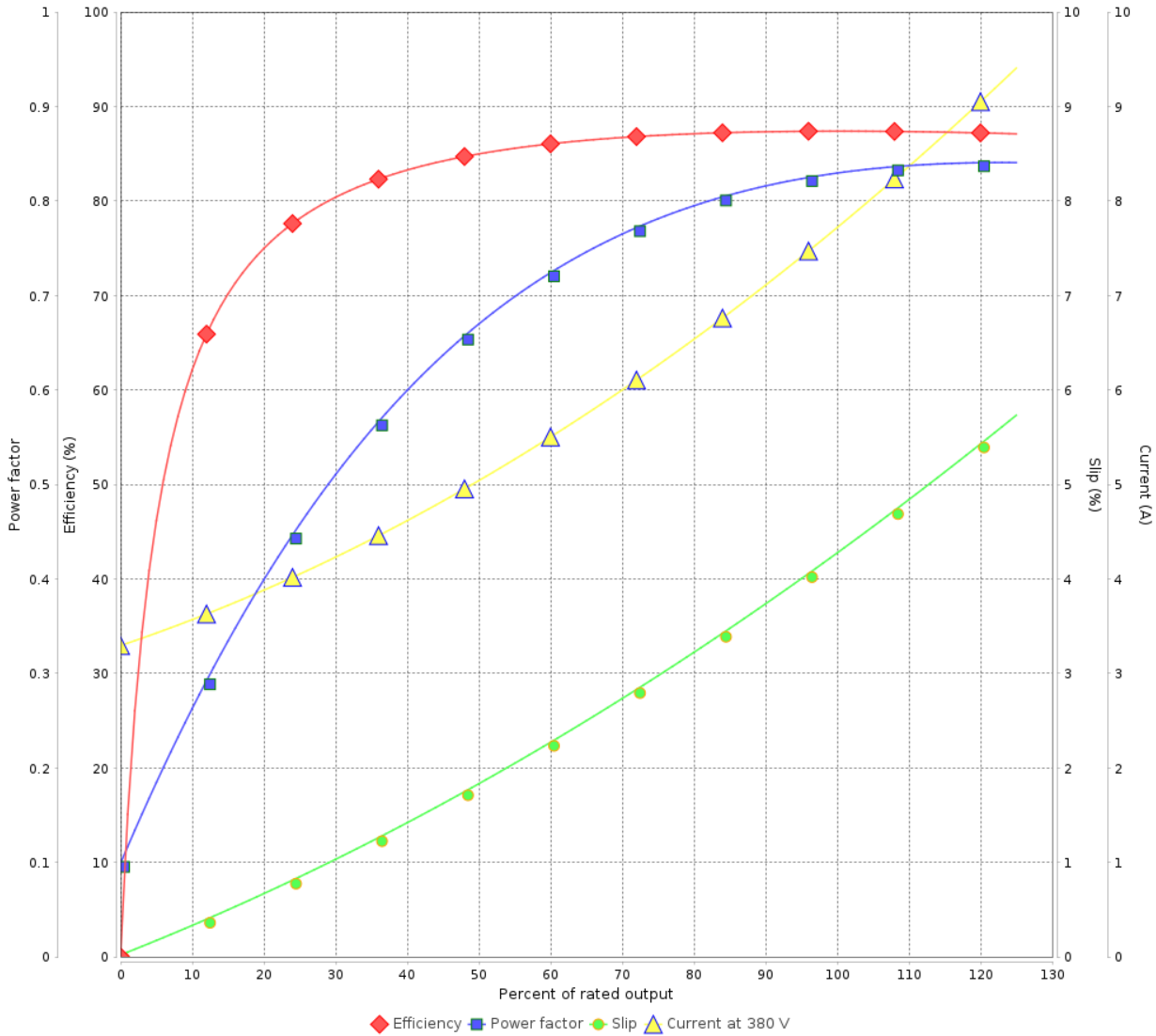


Customer :

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

Product code : 12011991

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Performance : 380 V 50 Hz 4P IE2

Rated current : 7.74 A
LRC : 5.7
Rated torque : 2.53 kgfm
Locked rotor torque : 180 %
Breakdown torque : 229 %
Rated speed : 1435 rpm

Moment of inertia (J) : 0.0147 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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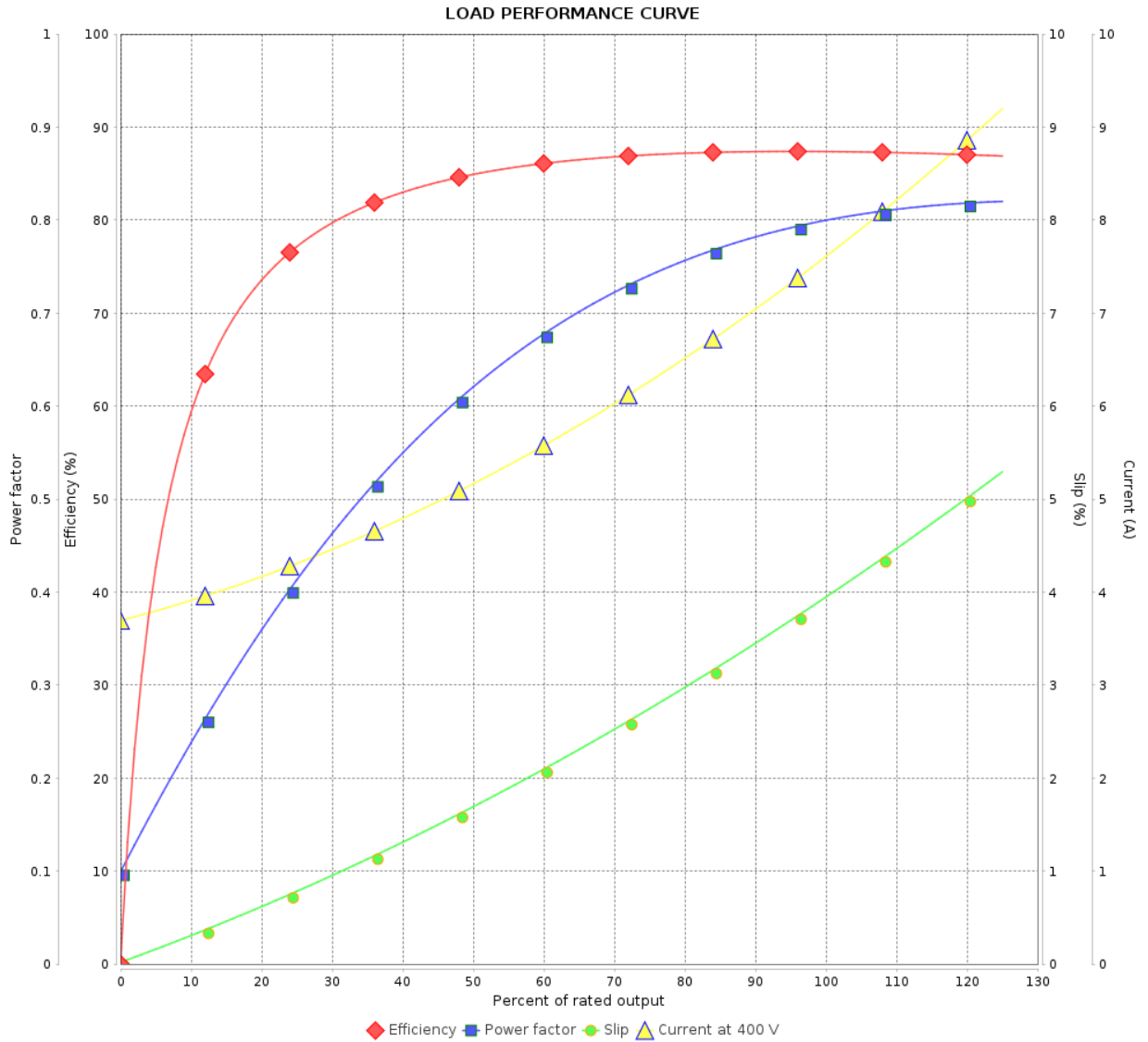
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12011991



Performance : 400 V 50 Hz 4P IE2

Rated current : 7.63 A
LRC : 6.1
Rated torque : 2.52 kgfm
Locked rotor torque : 200 %
Breakdown torque : 250 %
Rated speed : 1440 rpm

Moment of inertia (J) : 0.0147 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 105 K
Design : B

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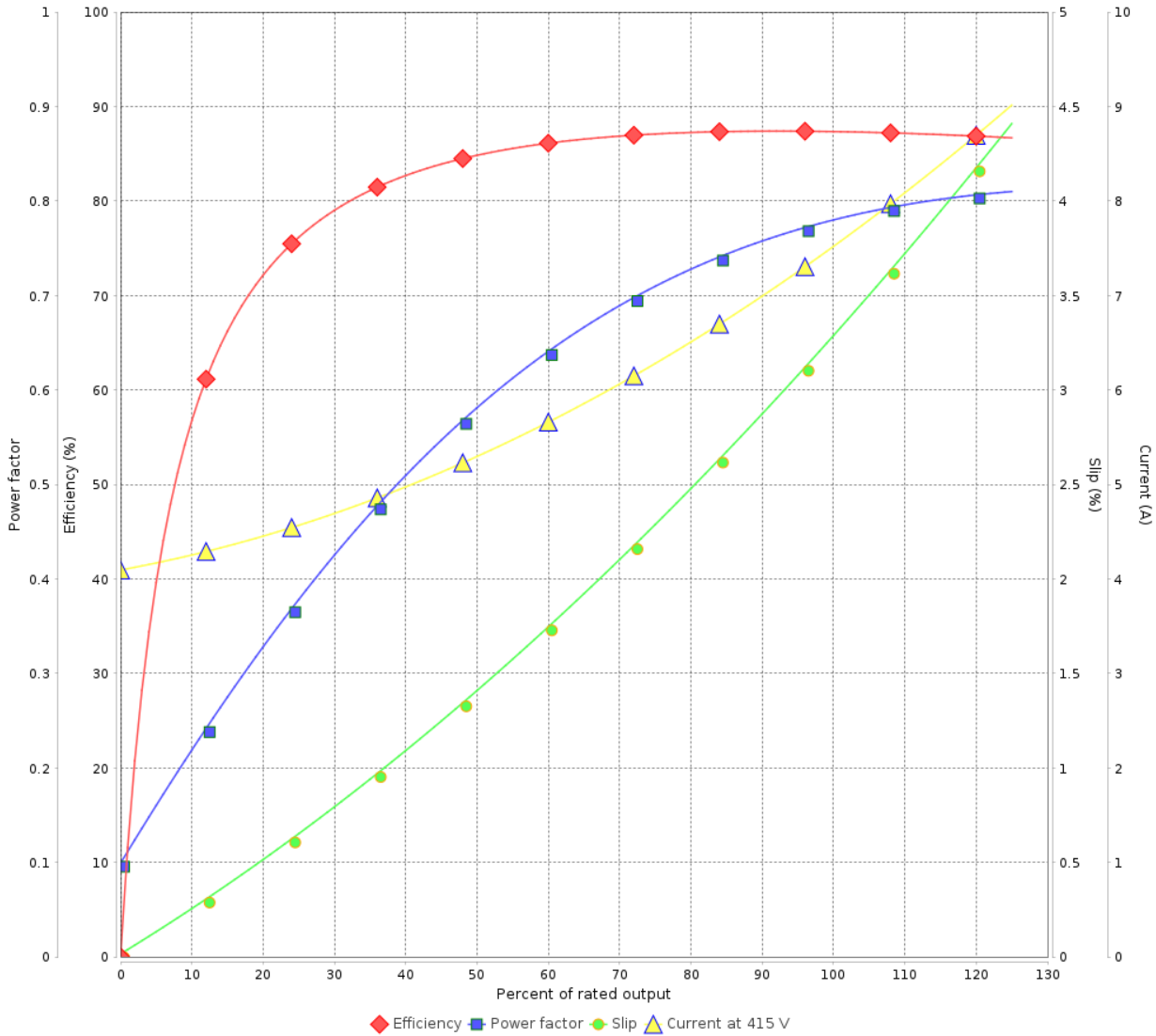


Customer :

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

Product code : 12011991

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Performance : 415 V 50 Hz 4P IE2

Rated current : 7.54 A
LRC : 6.5
Rated torque : 2.50 kgfm
Locked rotor torque : 229 %
Breakdown torque : 280 %
Rated speed : 1450 rpm

Moment of inertia (J) : 0.0147 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 105 K
Design : B

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