

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase Product code : 12011951

Frame	: 182JM	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	: 0.0 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0054 kgm ²
Design	: B		

Output [HP]	5	4	4	4	5	5	5
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]	12.3/6.17	6.16	5.99	5.98	7.47	7.26	7.08
L. R. Amperes [A]	86.4/43.2	40.0	42.5	45.4	40.3	42.8	45.3
LRC [A]	7.0x(Code H)	6.5x(Code H)	7.1x(Code J)	7.6x(Code K)	5.4x(Code F)	5.9x(Code G)	6.4x(Code H)
No load current [A]	4.80/2.40	2.10	2.80	3.50	2.10	2.80	3.50
Rated speed [RPM]	3490	2890	2905	2915	2855	2875	2890
Slip [%]	3.06	3.67	3.17	2.83	4.83	4.17	3.67
Rated torque [kgfm]	1.04	1.00	0.999	0.996	1.27	1.26	1.26
Locked rotor torque [%]	200	190	210	229	150	170	180
Breakdown torque [%]	280	290	330	370	229	260	290
Service factor	1.15	1.15	1.15	1.15	1.00	1.00	1.15
Temperature rise	105 K	105 K	105 K	105 K	105 K	105 K	105 K
Locked rotor time	28s (cold) 16s (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	64.0 dB(A)						
Efficiency (%)	25%						
	50%	87.5	83.0	82.6	81.7	84.0	84.0
	75%	88.5	84.8	84.8	84.8	85.5	85.5
	100%	88.5	87.1	87.1	87.2	85.5	86.5
Power Factor	25%						
	50%	0.68	0.69	0.64	0.58	0.75	0.71
	75%	0.80	0.79	0.76	0.72	0.84	0.81
	100%	0.85	0.85	0.83	0.80	0.88	0.86

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6207 ZZ	6205 ZZ	Max. traction : 76 kgf
Sealing	: Without	Without	Max. compression : 76 kgf
	Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes
USABLE @208V 13.6A SF 1.15 SFA 15.7A

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

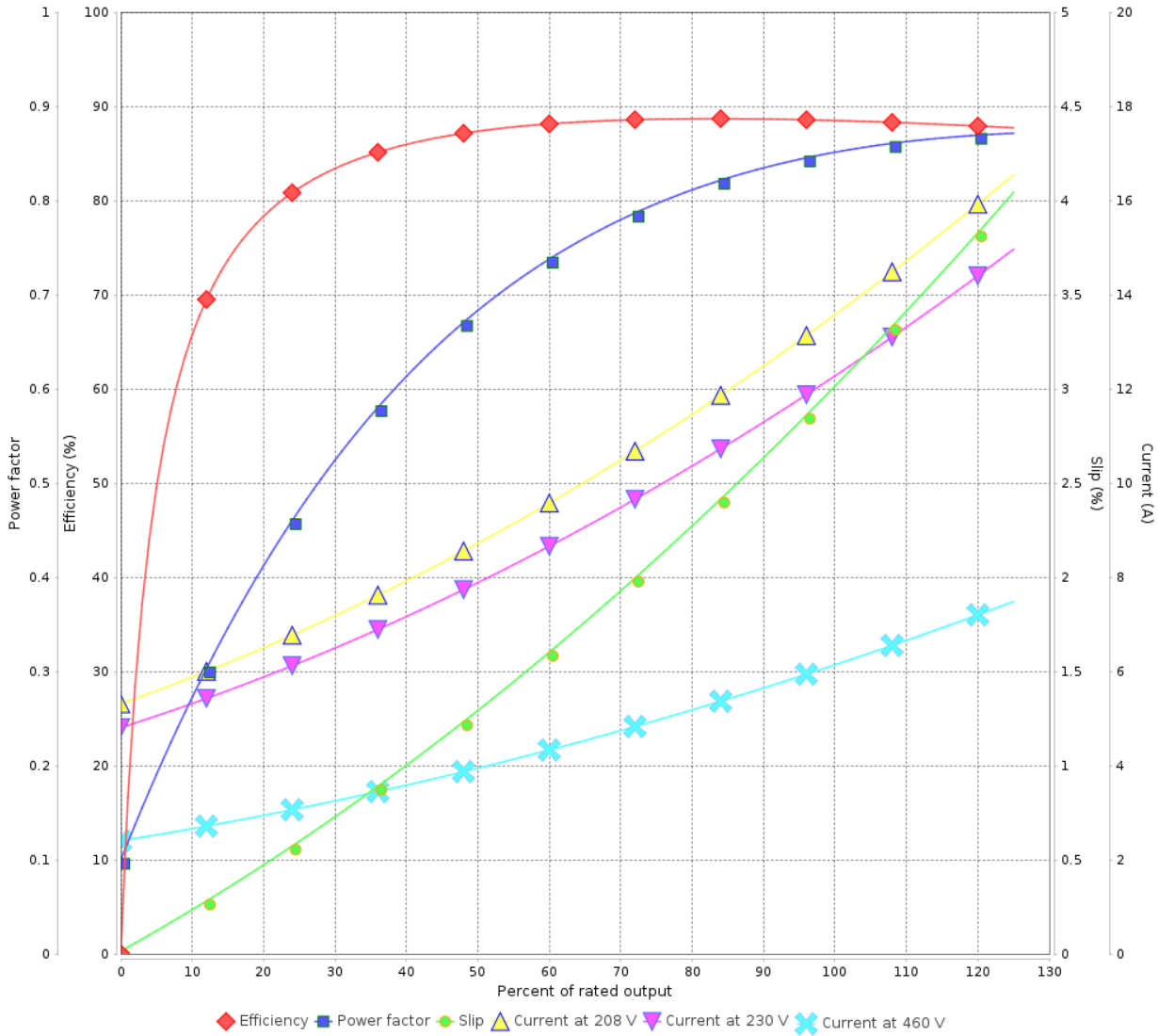


Customer : _____

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

Product code : 12011951

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Performance : 230/460 V 60 Hz 2P

Rated current : 12.3/6.17 A
LRC : 7.0
Rated torque : 1.04 kgfm
Locked rotor torque : 200 %
Breakdown torque : 280 %
Rated speed : 3490 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 105 K
Design : B

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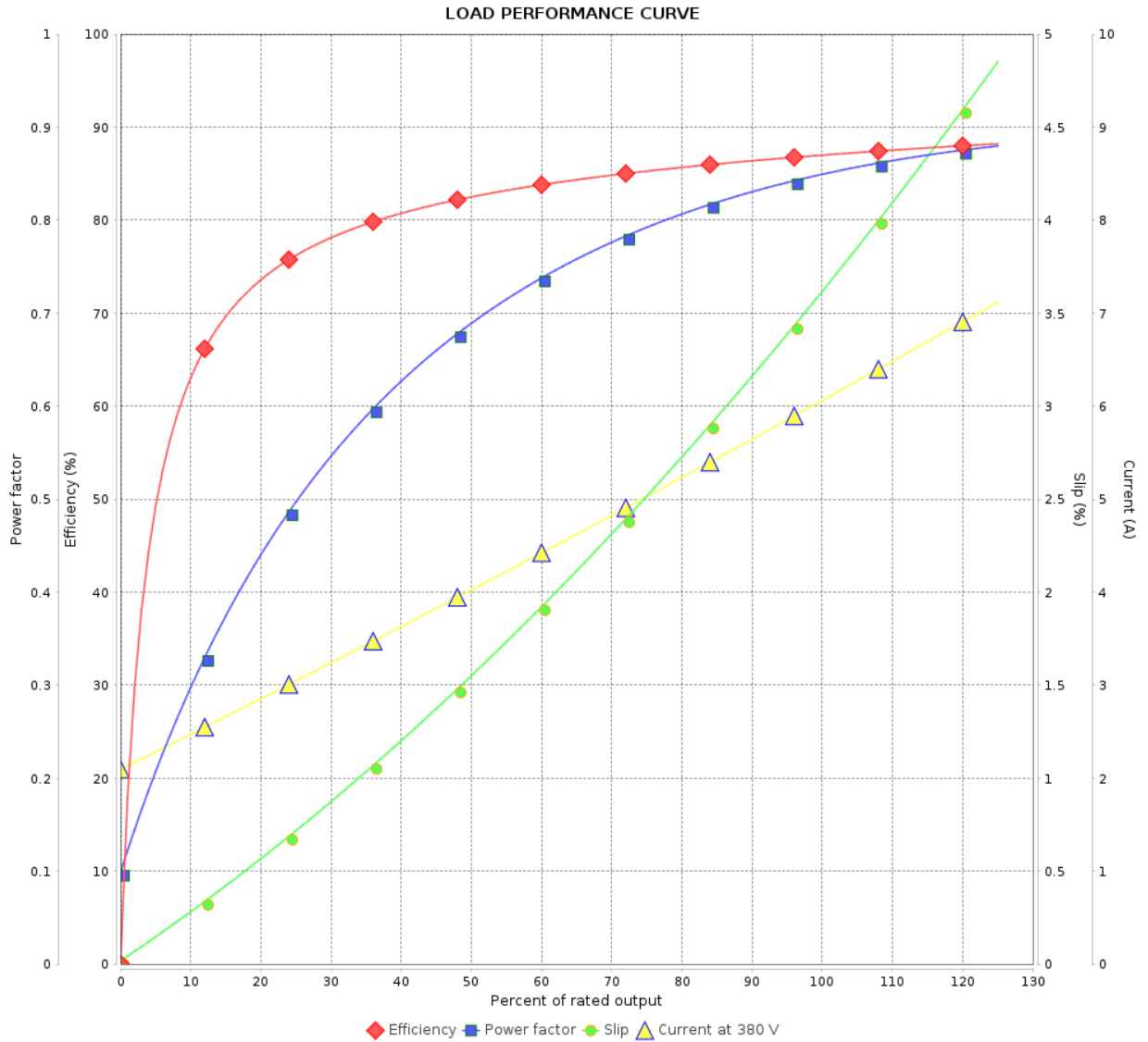
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 12011951



Performance : 380 V 50 Hz 2P IE3

Rated current : 6.16 A
LRC : 6.5
Rated torque : 1.00 kgfm
Locked rotor torque : 190 %
Breakdown torque : 290 %
Rated speed : 2890 rpm

Moment of inertia (J) : 0.0054 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

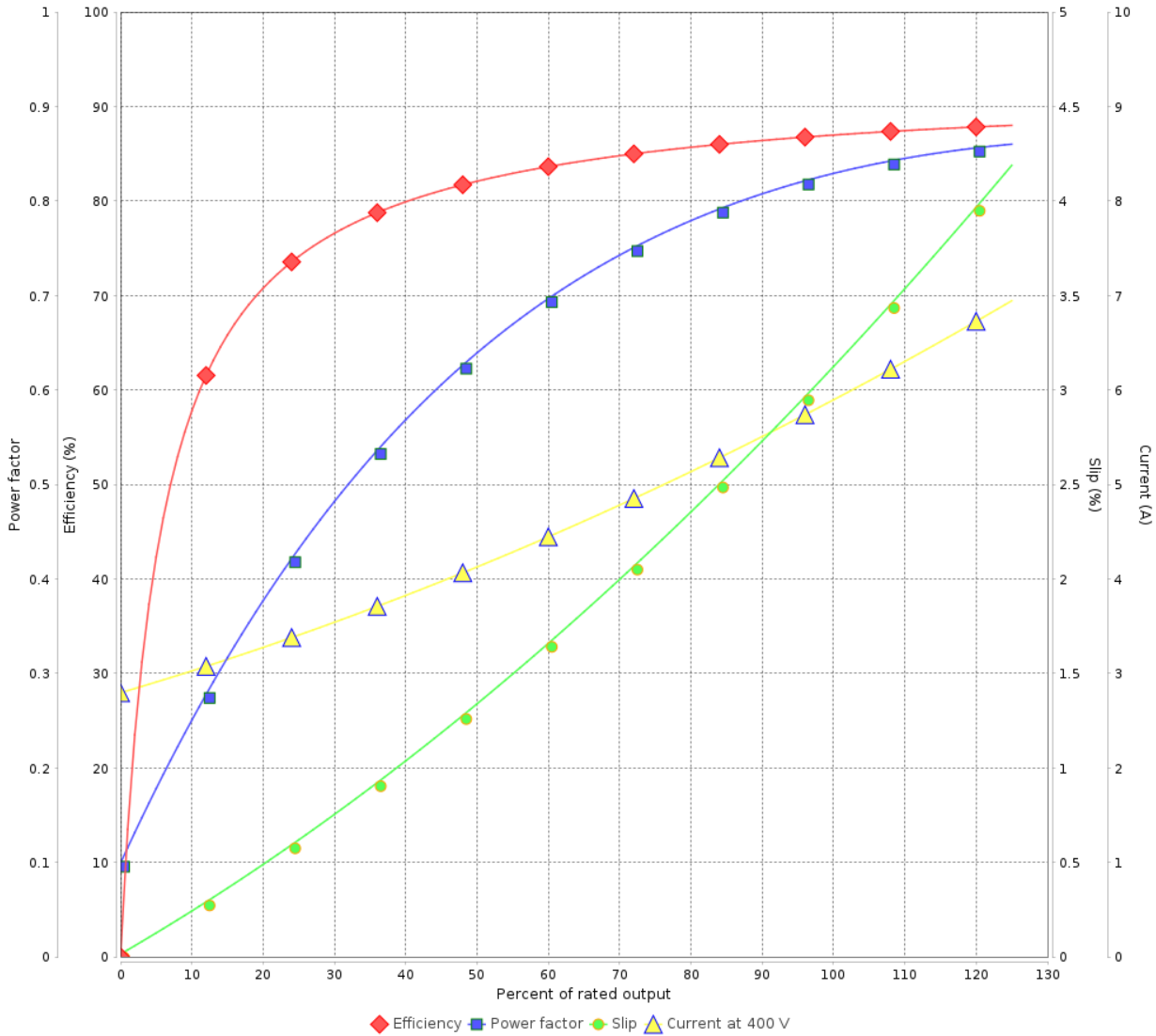


Customer :

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

Product code : 12011951

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Performance : 400 V 50 Hz 2P IE3

Rated current : 5.99 A
LRC : 7.1
Rated torque : 0.999 kgfm
Locked rotor torque : 210 %
Breakdown torque : 330 %
Rated speed : 2905 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 105 K
Design : B

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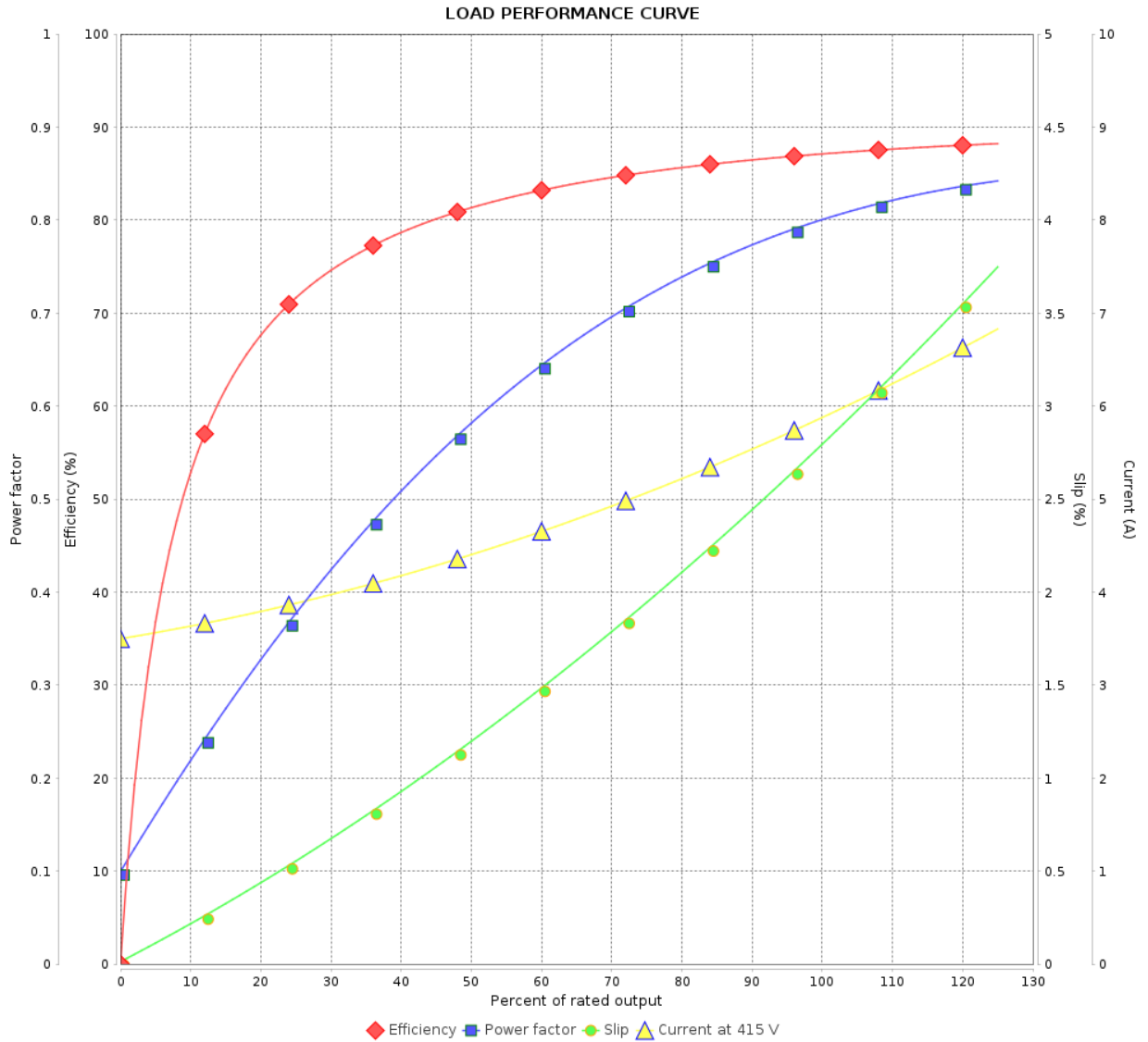
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 12011951



Performance : 415 V 50 Hz 2P IE3

Rated current : 5.98 A
 LRC : 7.6
 Rated torque : 0.996 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 370 %
 Rated speed : 2915 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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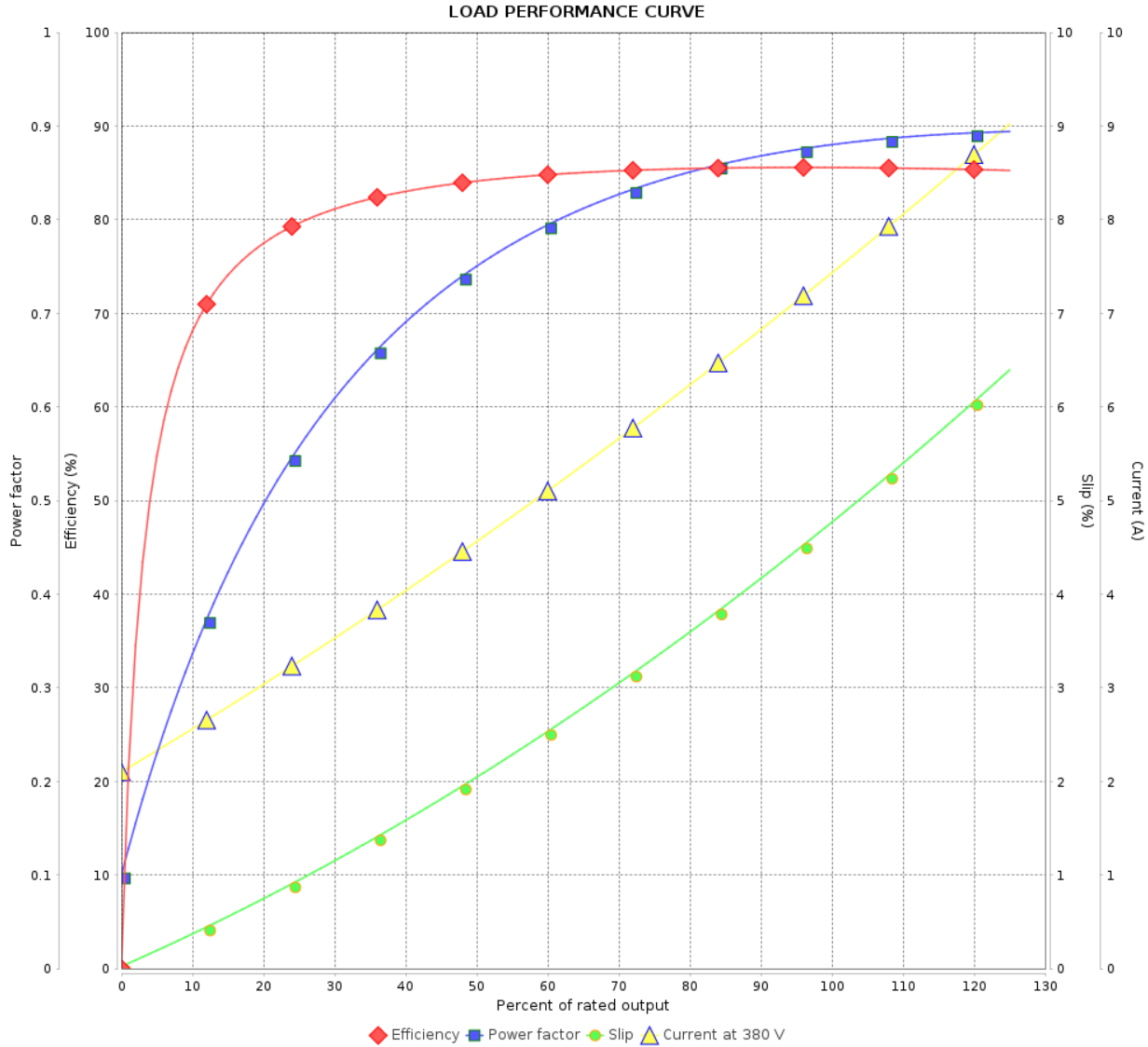
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12011951



Performance : 380 V 50 Hz 2P IE2

Rated current : 7.47 A
LRC : 5.4
Rated torque : 1.27 kgfm
Locked rotor torque : 150 %
Breakdown torque : 229 %
Rated speed : 2855 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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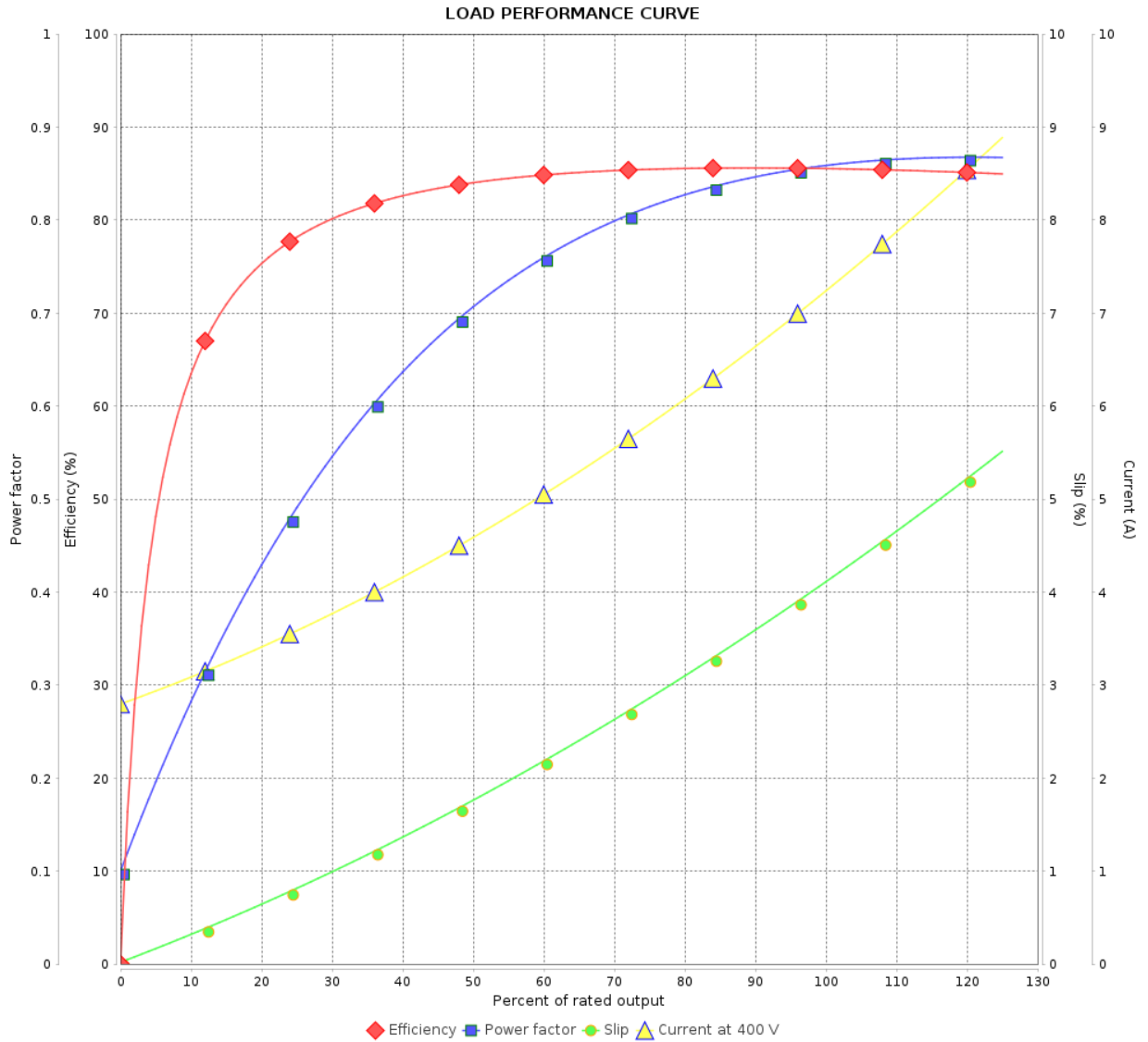
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 12011951



Performance : 400 V 50 Hz 2P IE2

Rated current : 7.26 A
LRC : 5.9
Rated torque : 1.26 kgfm
Locked rotor torque : 170 %
Breakdown torque : 260 %
Rated speed : 2875 rpm

Moment of inertia (J) : 0.0054 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

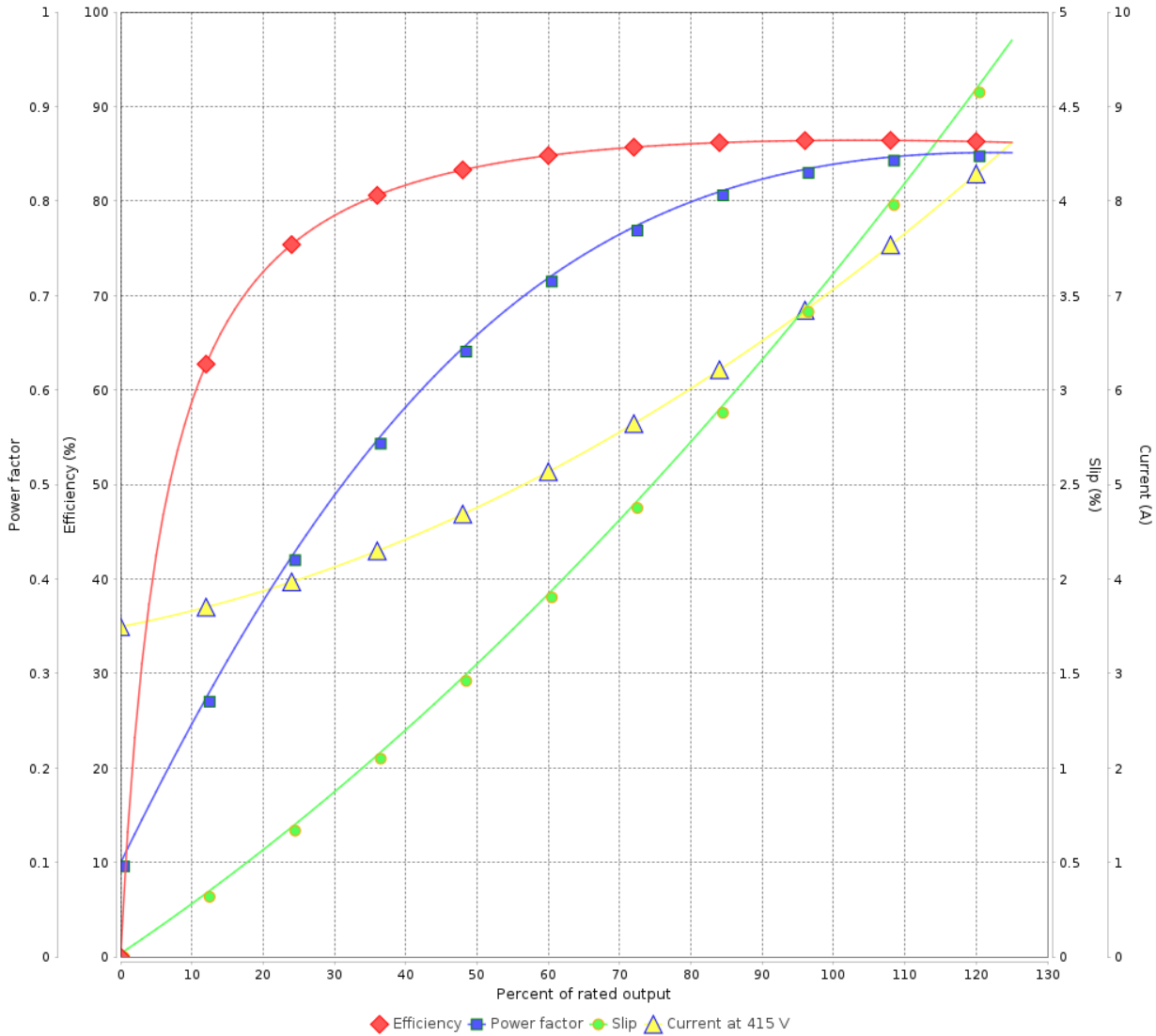


Customer :

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

Product code : 12011951

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Performance : 415 V 50 Hz 2P IE2

Rated current : 7.08 A
LRC : 6.4
Rated torque : 1.26 kgfm
Locked rotor torque : 180 %
Breakdown torque : 290 %
Rated speed : 2890 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 105 K
Design : B

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