

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: Close Coupled Pump NEMA Premium Efficiency Three-Phase	Product code :	11005890					
Frame	: 284JM	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 ²	: 170 kg					
Protection degree	: IP23	Moment of inertia (J)	: 0.1435 kgm ²					
Design	: B							
Output [HP]	25	20	20	20	25	25	25	
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]	59.8/29.9	29.8	29.4	28.6	36.1	35.1	34.0	
L. R. Amperes [A]	401/200	197	194	186	195	193	187	
LRC [A]	6.7x(Code H)	6.6x(Code H)	6.6x(Code H)	6.5x(Code H)	5.4x(Code F)	5.5x(Code F)	5.5x(Code F)	
No load current [A]	24.0/12.0	11.9	12.9	13.8	11.9	12.9	13.8	
Rated speed [RPM]	1770	1470	1470	1475	1460	1465	1470	
Slip [%]	1.67	2.00	2.00	1.67	2.67	2.33	2.00	
Rated torque [kgfm]	10.3	9.87	9.87	9.84	12.4	12.4	12.3	
Locked rotor torque [%]	250	290	300	330	229	240	260	
Breakdown torque [%]	280	300	330	360	240	260	290	
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	27s (cold) 15s (hot)	36s (cold) 20s (hot)	37s (cold) 21s (hot)	41s (cold) 23s (hot)	36s (cold) 20s (hot)	37s (cold) 21s (hot)	41s (cold) 23s (hot)	
Noise level ²	62.0 dB(A)							
Efficiency (%)	25%	91.7	88.8	88.6	87.7	90.7	90.8	90.2
	50%	92.4	89.6	89.4	88.8	91.0	91.0	91.0
	75%	93.0	91.5	91.5	91.4	91.7	91.7	91.7
	100%	93.6	92.1	92.1	92.3	91.7	91.7	92.4
Power Factor	25%	0.43	0.42	0.39	0.36	0.49	0.45	0.42
	50%	0.67	0.66	0.62	0.59	0.73	0.69	0.66
	75%	0.78	0.78	0.74	0.71	0.82	0.79	0.77
	100%	0.83	0.83	0.80	0.78	0.85	0.83	0.82
Bearing type	: Drive end : 6311 Z C3	Non drive end : 6211 Z C3	Foundation loads					
Sealing	: Without	Without	Max. traction : 427 kgf					
	Bearing Seal	Bearing Seal	Max. compression : 597 kgf					
Lubrication interval	: 20000 h	20000 h						
Lubricant amount	: 18 g	11 g						
Lubricant type	: Mobil Polyrex EM							
Notes USABLE @208V 66.1A SF 1.15 SFA 76.0A								
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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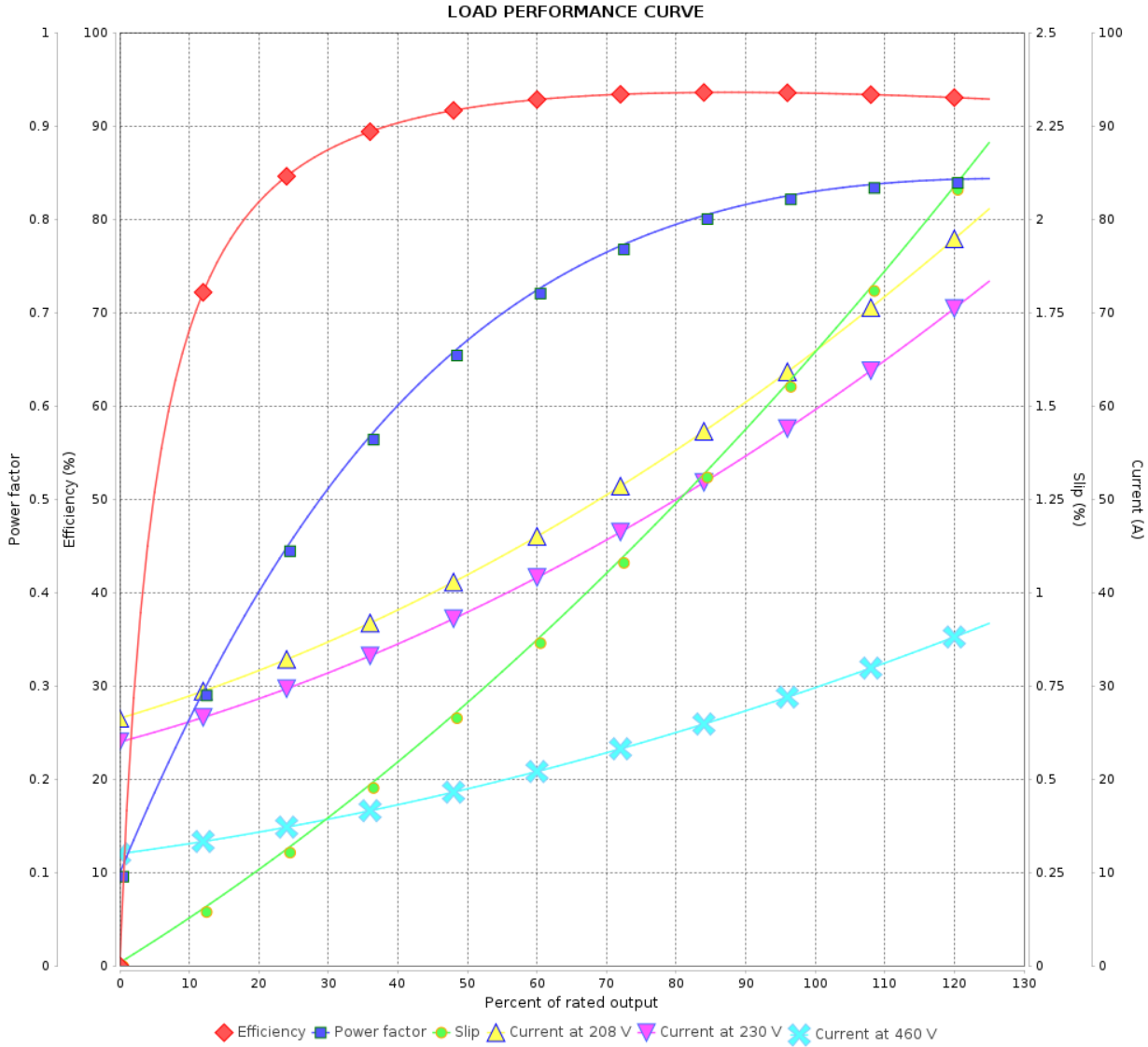
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 11005890



Performance : 230/460 V 60 Hz 4P

Rated current : 59.8/29.9 A
LRC : 6.7
Rated torque : 10.3 kgfm
Locked rotor torque : 250 %
Breakdown torque : 280 %
Rated speed : 1770 rpm

Moment of inertia (J) : 0.1435 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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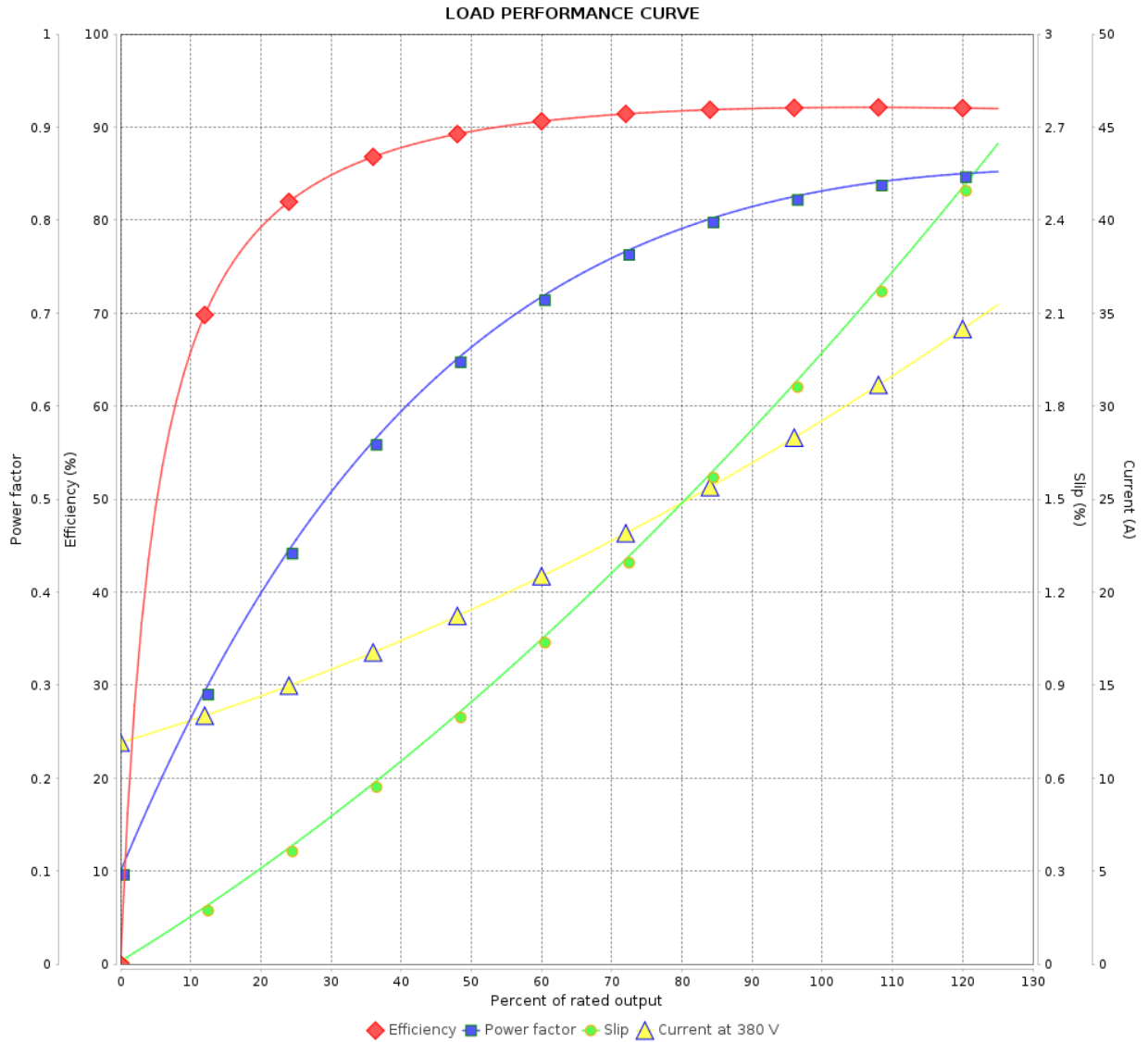
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 11005890



Performance : 380 V 50 Hz 4P IE3

Rated current : 29.8 A
 LRC : 6.6
 Rated torque : 9.87 kgfm
 Locked rotor torque : 290 %
 Breakdown torque : 300 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.1435 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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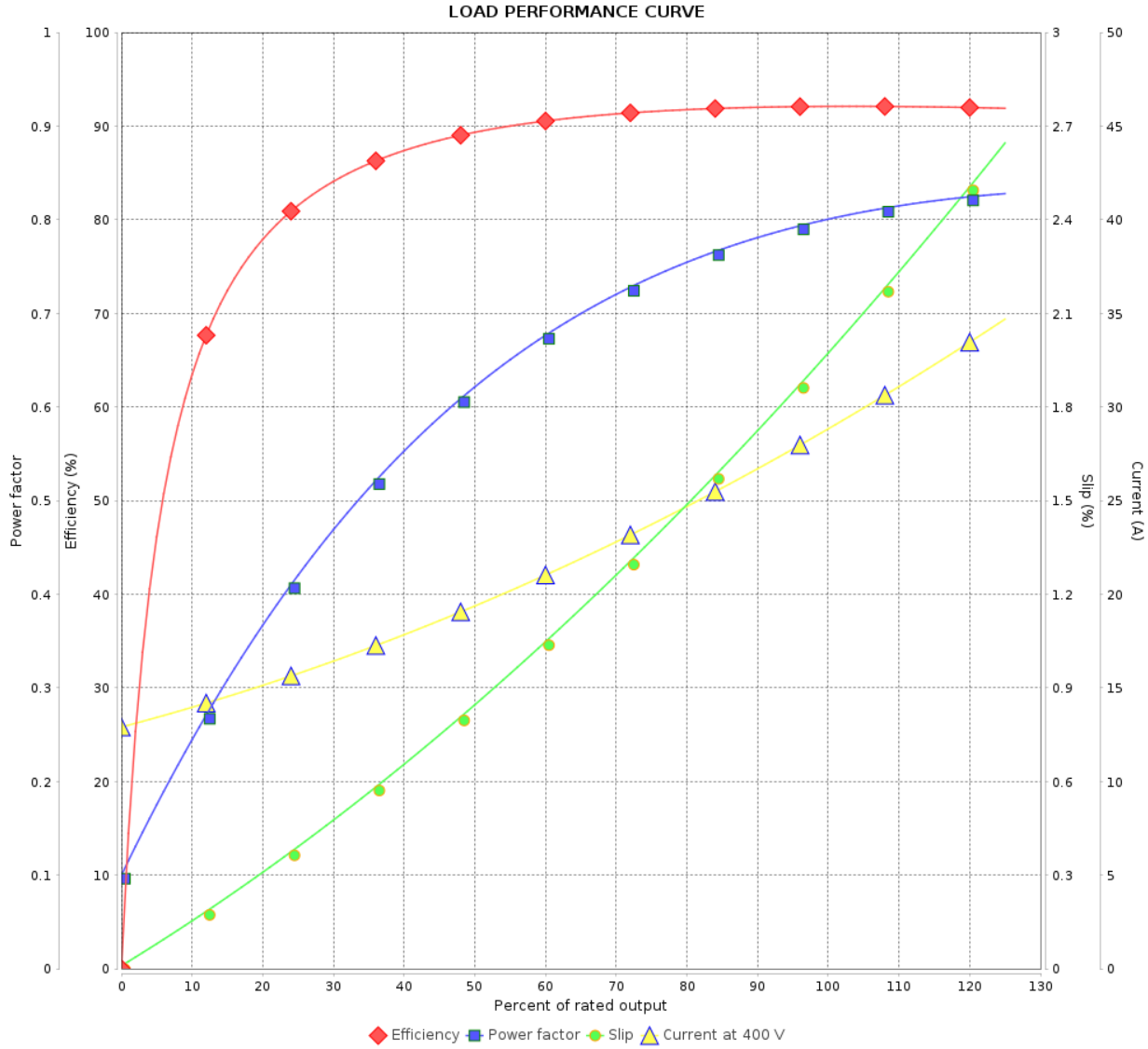
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11005890



Performance : 400 V 50 Hz 4P IE3

Rated current : 29.4 A
LRC : 6.6
Rated torque : 9.87 kgfm
Locked rotor torque : 300 %
Breakdown torque : 330 %
Rated speed : 1470 rpm

Moment of inertia (J) : 0.1435 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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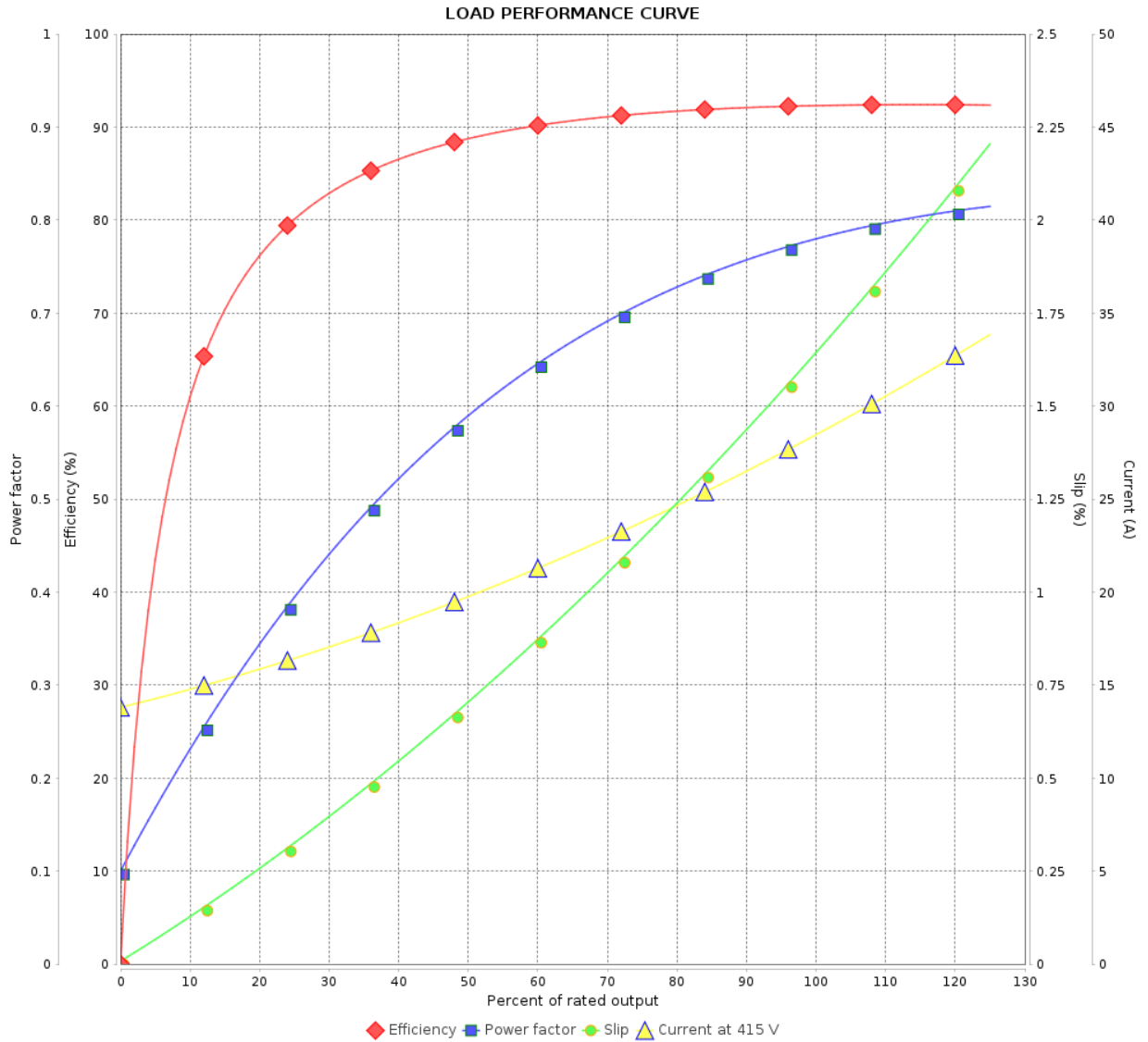
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 11005890



Performance : 415 V 50 Hz 4P IE3

Rated current : 28.6 A
 LRC : 6.5
 Rated torque : 9.84 kgfm
 Locked rotor torque : 330 %
 Breakdown torque : 360 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.1435 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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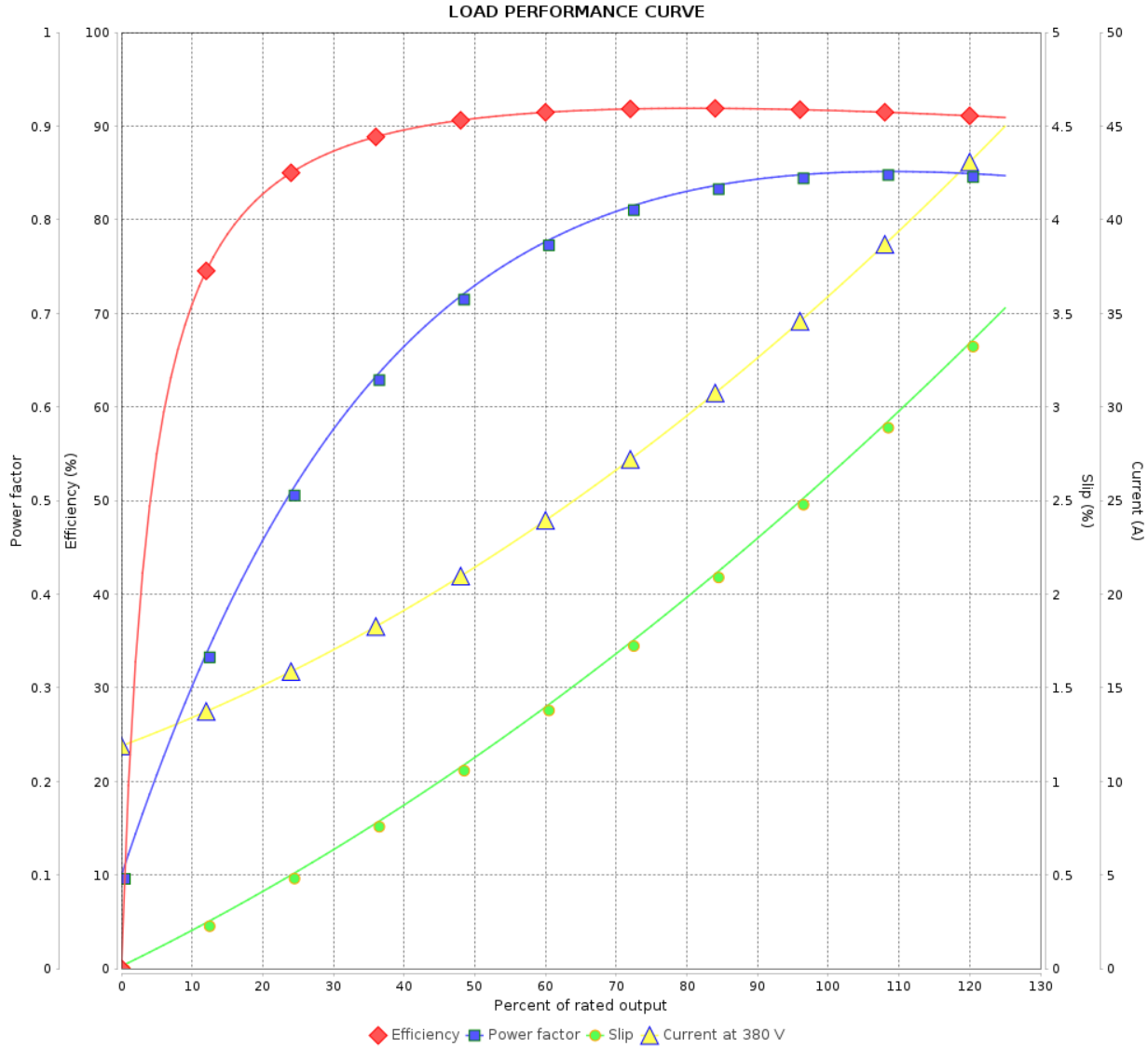
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium
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Product code : 11005890



Performance : 380 V 50 Hz 4P IE2

Rated current : 36.1 A
LRC : 5.4
Rated torque : 12.4 kgfm
Locked rotor torque : 229 %
Breakdown torque : 240 %
Rated speed : 1460 rpm

Moment of inertia (J) : 0.1435 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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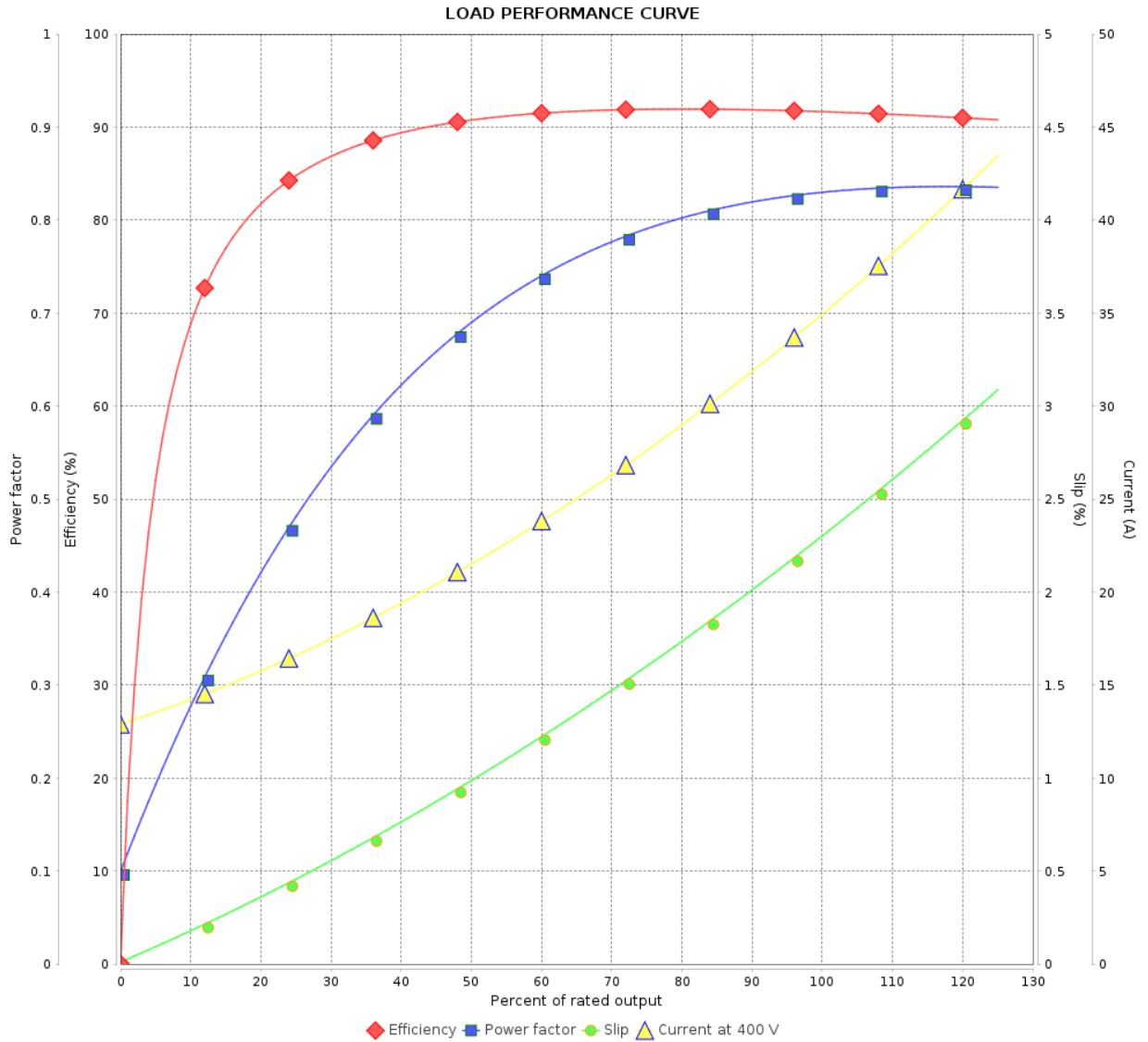
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 11005890



Performance : 400 V 50 Hz 4P IE2

Rated current : 35.1 A
 LRC : 5.5
 Rated torque : 12.4 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.1435 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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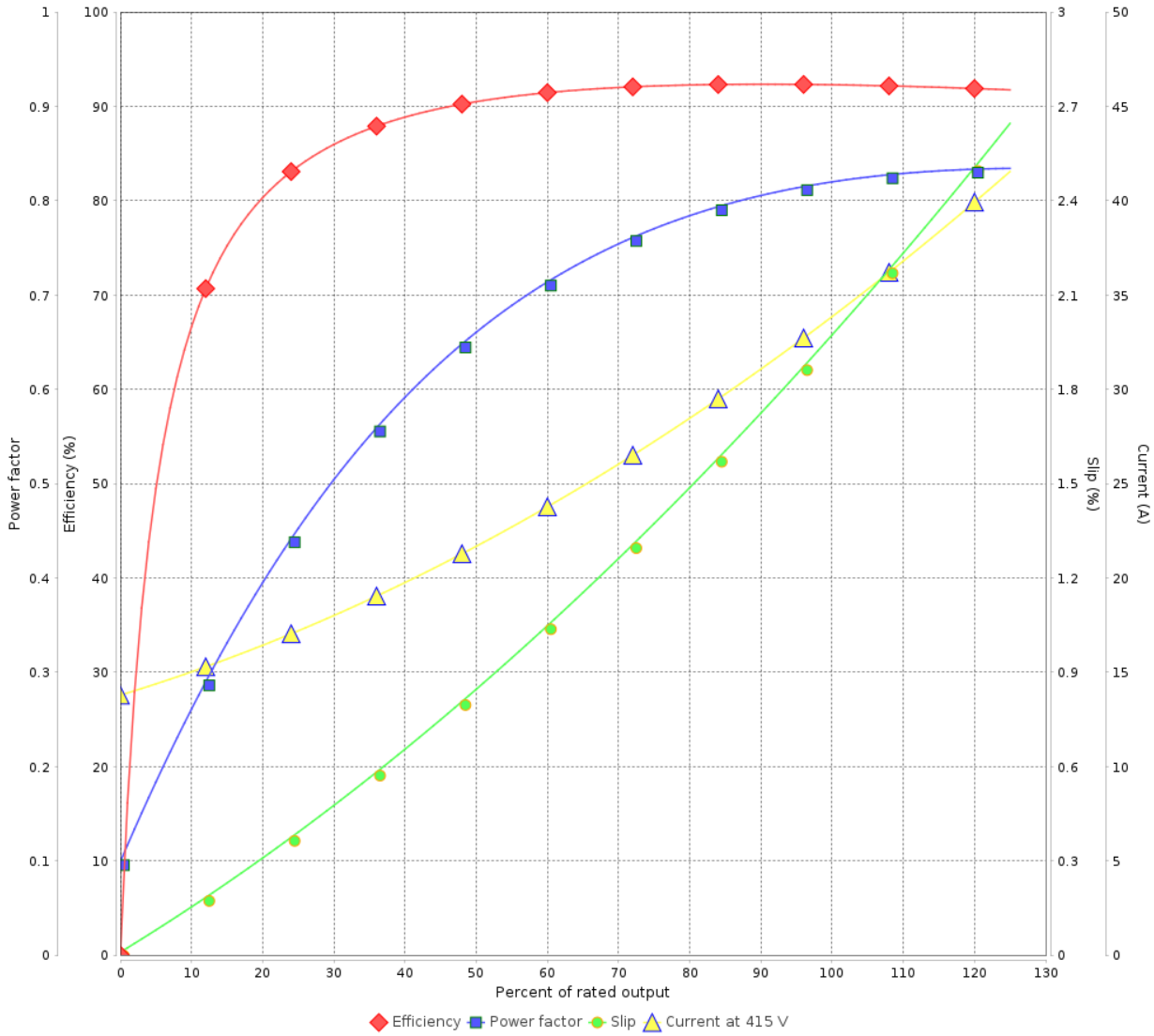


Customer :

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

Product code : 11005890

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 4P IE2

Rated current : 34.0 A
LRC : 5.5
Rated torque : 12.3 kgfm
Locked rotor torque : 260 %
Breakdown torque : 290 %
Rated speed : 1470 rpm

Moment of inertia (J) : 0.1435 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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