

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 14171928

Frame : 504/5T	Cooling method : IC411 - TEFC
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 : 1201 kg
Protection degree : IP55	Moment of inertia (J) : 6.09 kgm ²
Design : B	

Output [HP]	200	175	175	175	200	200	200
Poles	6	6	6	6	6	6	6
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	474/237	247	241	235	284	271	265
L. R. Amperes [A]	2939/1469	1359	1494	1598	1363	1491	1590
LRC [A]	6.2x(Code G)	5.5x(Code F)	6.2x(Code G)	6.8x(Code H)	4.8x(Code E)	5.5x(Code F)	6.0x(Code G)
No load current [A]	170/85.0	81.0	86.0	91.0	81.0	86.0	91.0
Rated speed [RPM]	1190	985	990	990	985	990	990
Slip [%]	0.83	1.50	1.00	1.00	1.50	1.00	1.00
Rated torque [kgfm]	122	129	128	128	147	147	147
Locked rotor torque [%]	220	190	220	240	170	190	210
Breakdown torque [%]	229	210	240	250	180	210	220
Service factor	1.15	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	37s (cold) 21s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	70.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%						
	50%	95.0	94.8	94.5	94.4	95.0	95.0
	75%	95.4	95.1	95.1	95.1	95.0	95.0
	100%	95.8	95.4	95.4	95.4	94.5	95.0
Power Factor	25%						
	50%	0.70	0.71	0.67	0.65	0.76	0.72
	75%	0.80	0.82	0.79	0.78	0.83	0.81
	100%	0.83	0.85	0.83	0.82	0.85	0.84

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	4.5	4.5	4.5	4.5	4.5	4.5
	P2 (0,5;1,0)	3.6	3.6	3.6	3.6	3.6	3.6
	P3 (0,25;1,0)	3.2	3.2	3.2	3.2	3.2	3.2
	P4 (0,9;0,5)	2.3	2.3	2.3	2.3	2.3	2.3
	P5 (0,5;0,5)	1.5	1.5	1.5	1.5	1.5	1.5
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.7	0.7	0.7	0.7	0.7	0.7

Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :	Drive end	Non drive end	Foundation loads Max. traction : 1939 kgf Max. compression : 3140 kgf
	6319 C3	6316 C3	
	WSeal	WSeal	
	13000 h	16000 h	
	45 g	34 g	
	Mobil Polyrex EM		

This revision replaces and cancel the previous one, which must be eliminated.

(1) Looking the motor from the shaft end.

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 : _____

Notes
USABLE @208V 524A SF 1.00 SFA 524A

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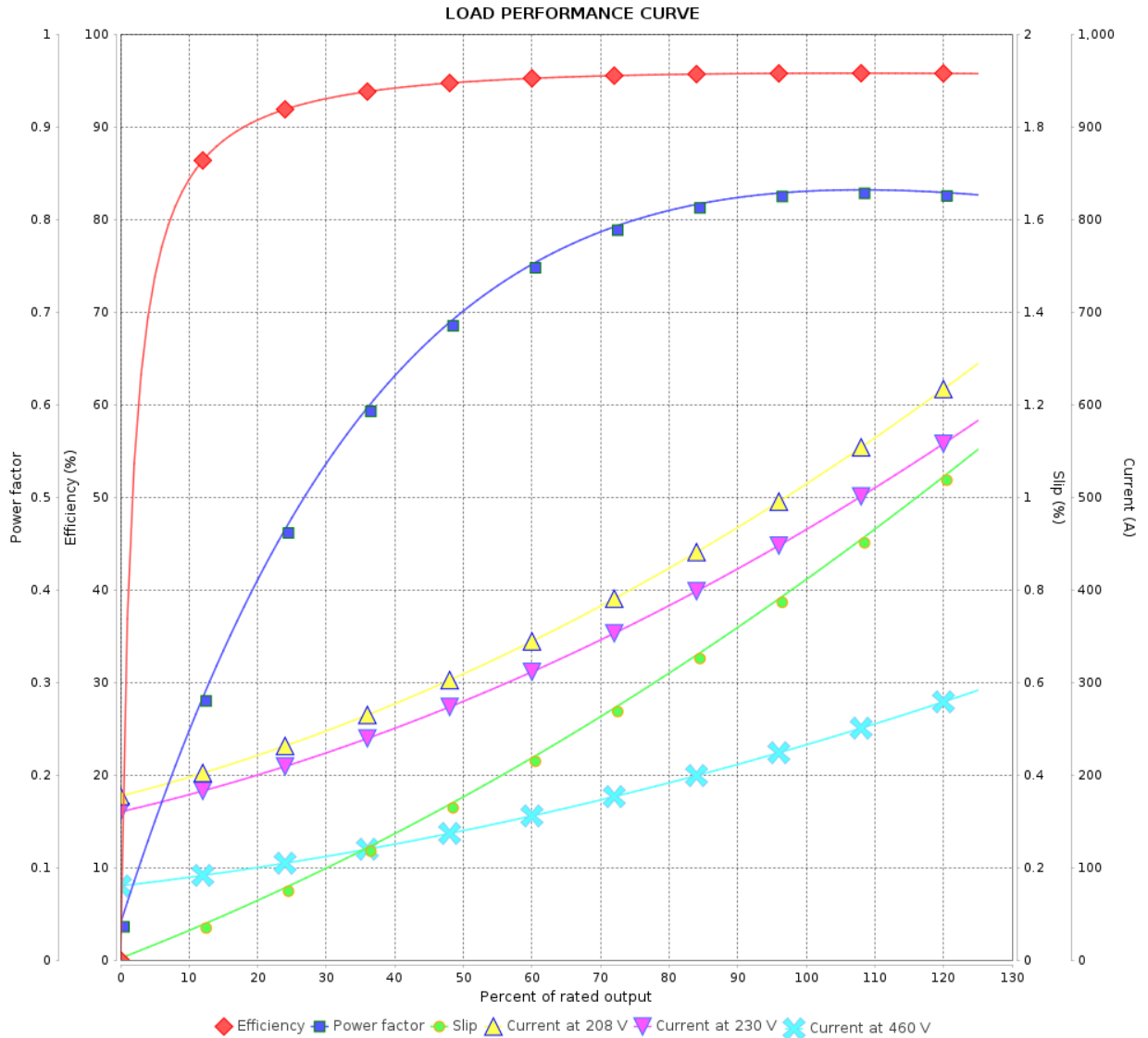
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14171928



Performance : 230/460 V 60 Hz 6P

Rated current : 474/237 A
 LRC : 6.2
 Rated torque : 122 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 229 %
 Rated speed : 1190 rpm

Moment of inertia (J) : 6.09 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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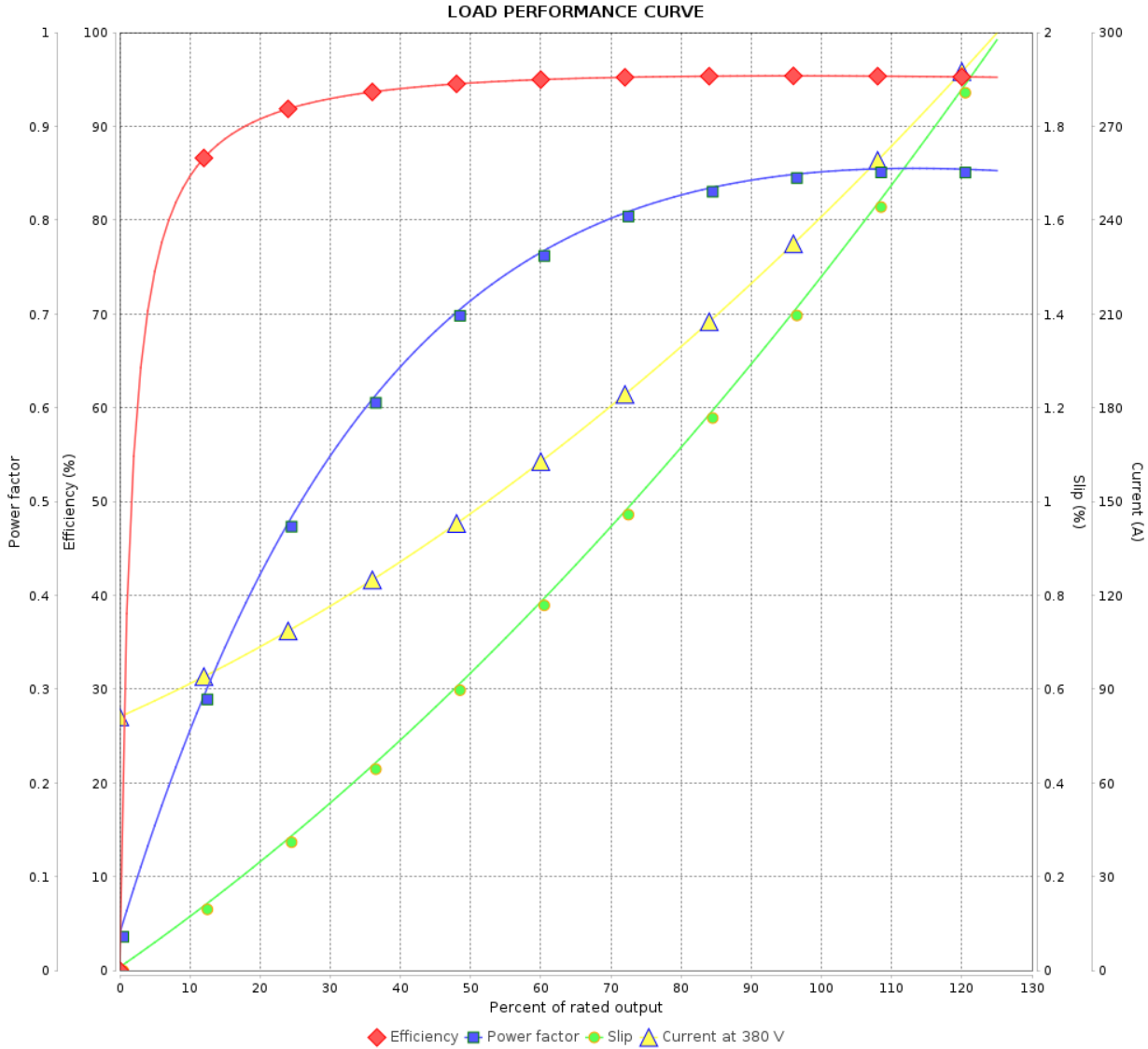
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14171928



Performance : 380 V 50 Hz 6P IE3

Rated current	: 247 A	Moment of inertia (J)	: 6.09 kgm ²
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 129 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

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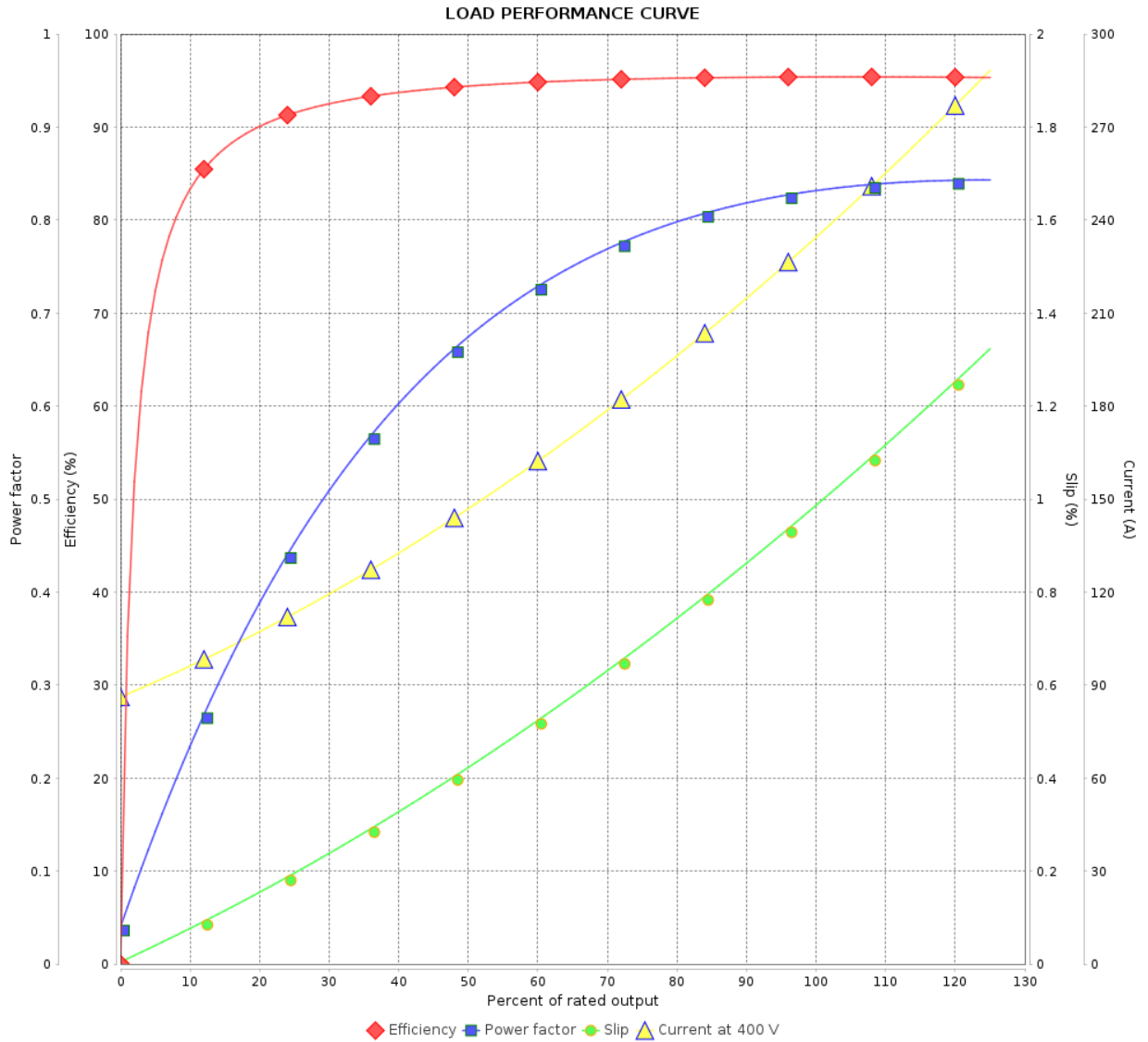
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14171928



Performance : 400 V 50 Hz 6P IE3

Rated current : 241 A
 LRC : 6.2
 Rated torque : 128 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 240 %
 Rated speed : 990 rpm

Moment of inertia (J) : 6.09 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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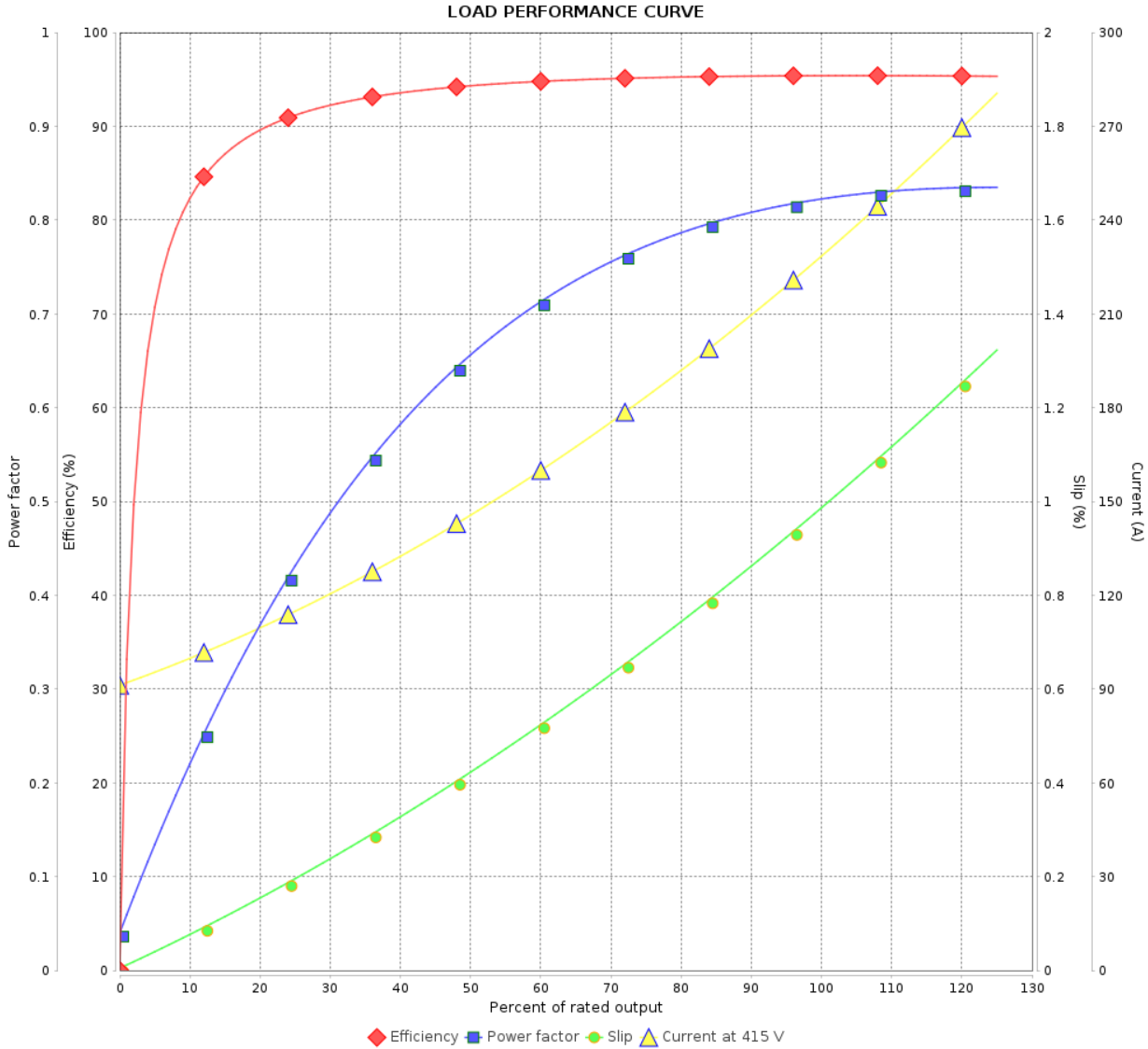
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14171928



Performance : 415 V 50 Hz 6P IE3

Rated current	: 235 A	Moment of inertia (J)	: 6.09 kgm ²
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 128 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: B

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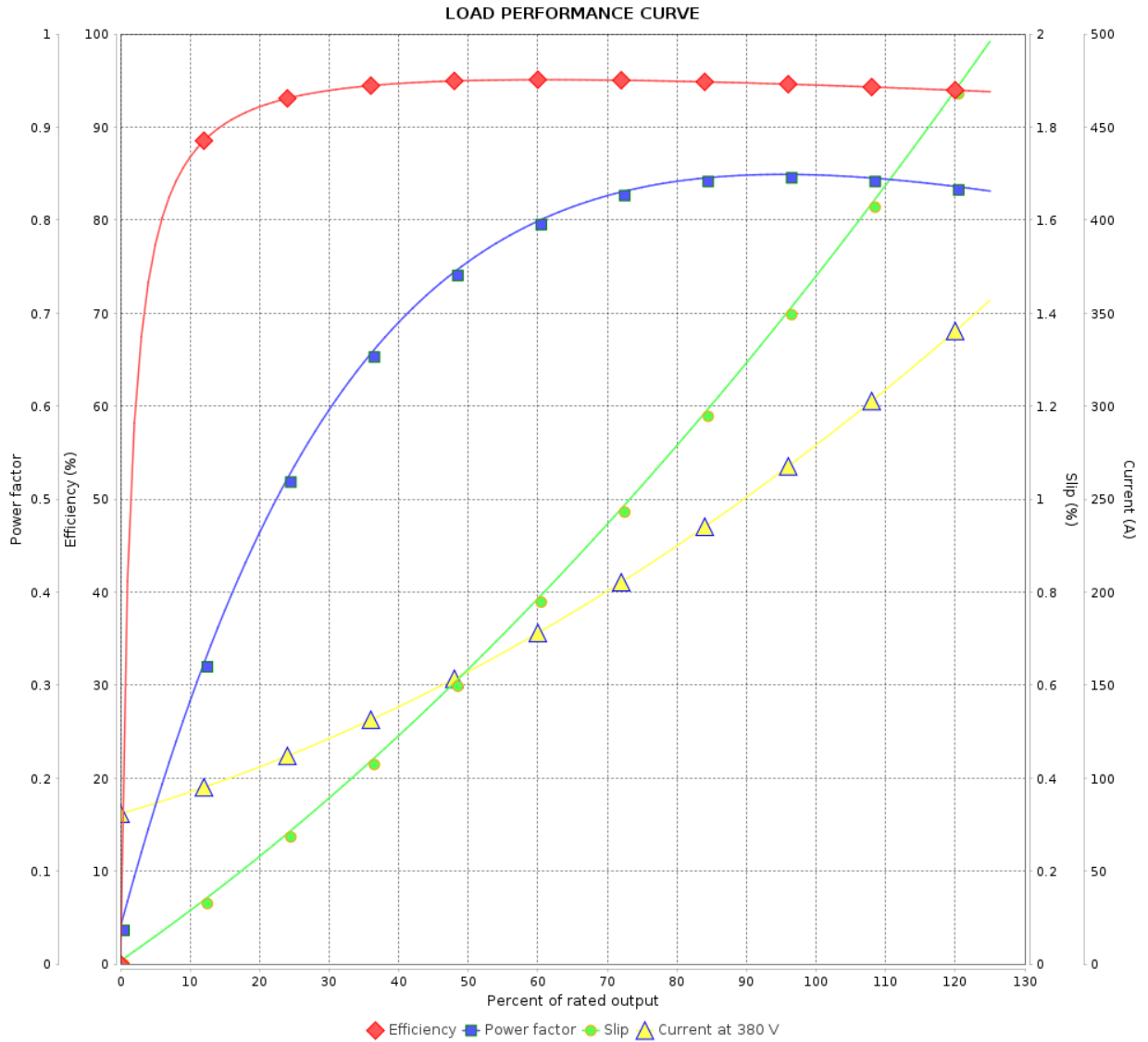
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14171928



Performance : 380 V 50 Hz 6P IE1

Rated current : 284 A
 LRC : 4.8
 Rated torque : 147 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 180 %
 Rated speed : 985 rpm

Moment of inertia (J) : 6.09 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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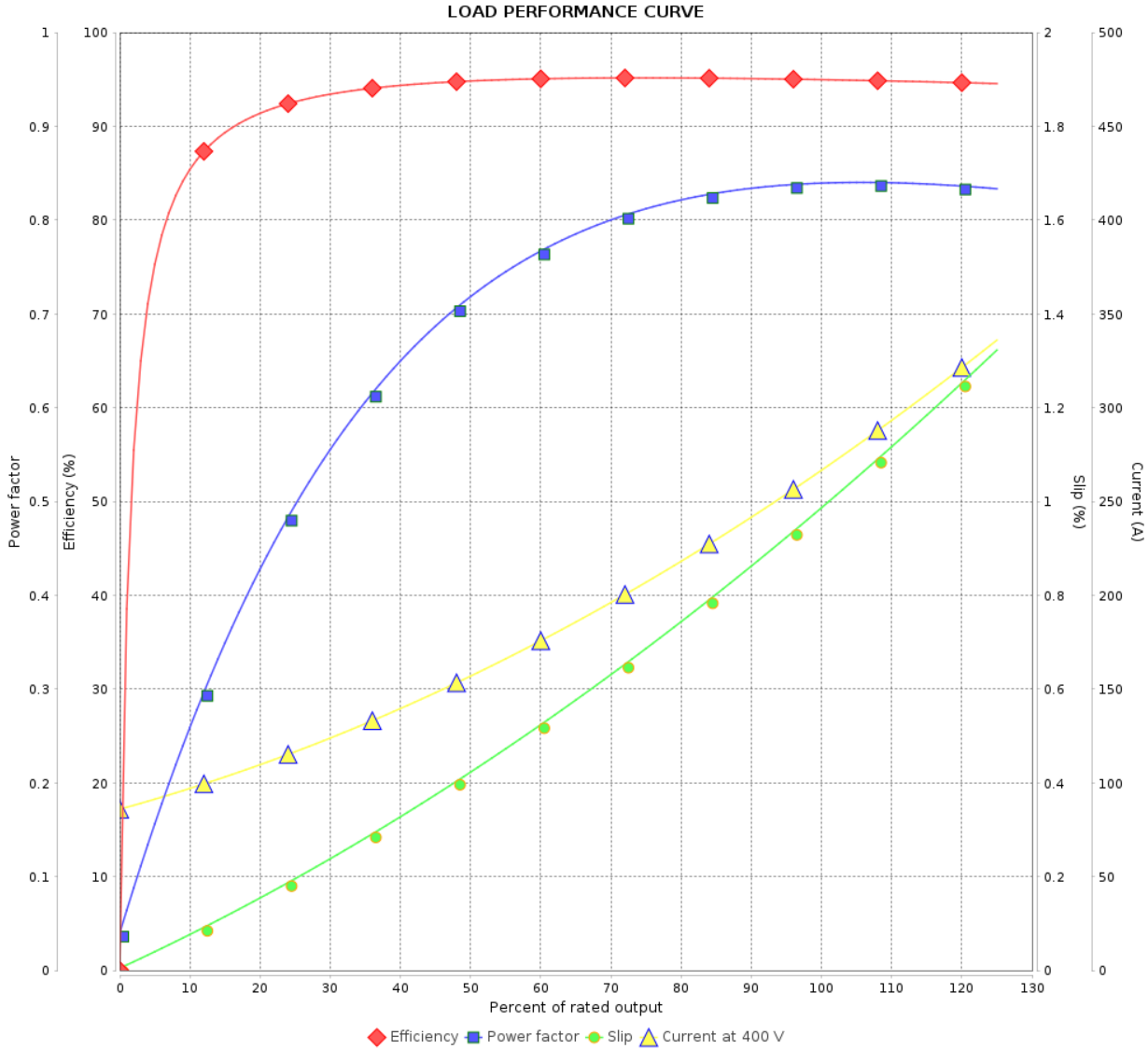
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14171928



Performance : 400 V 50 Hz 6P IE2

Rated current	: 271 A	Moment of inertia (J)	: 6.09 kgm ²
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 147 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 990 rpm	Design	: B

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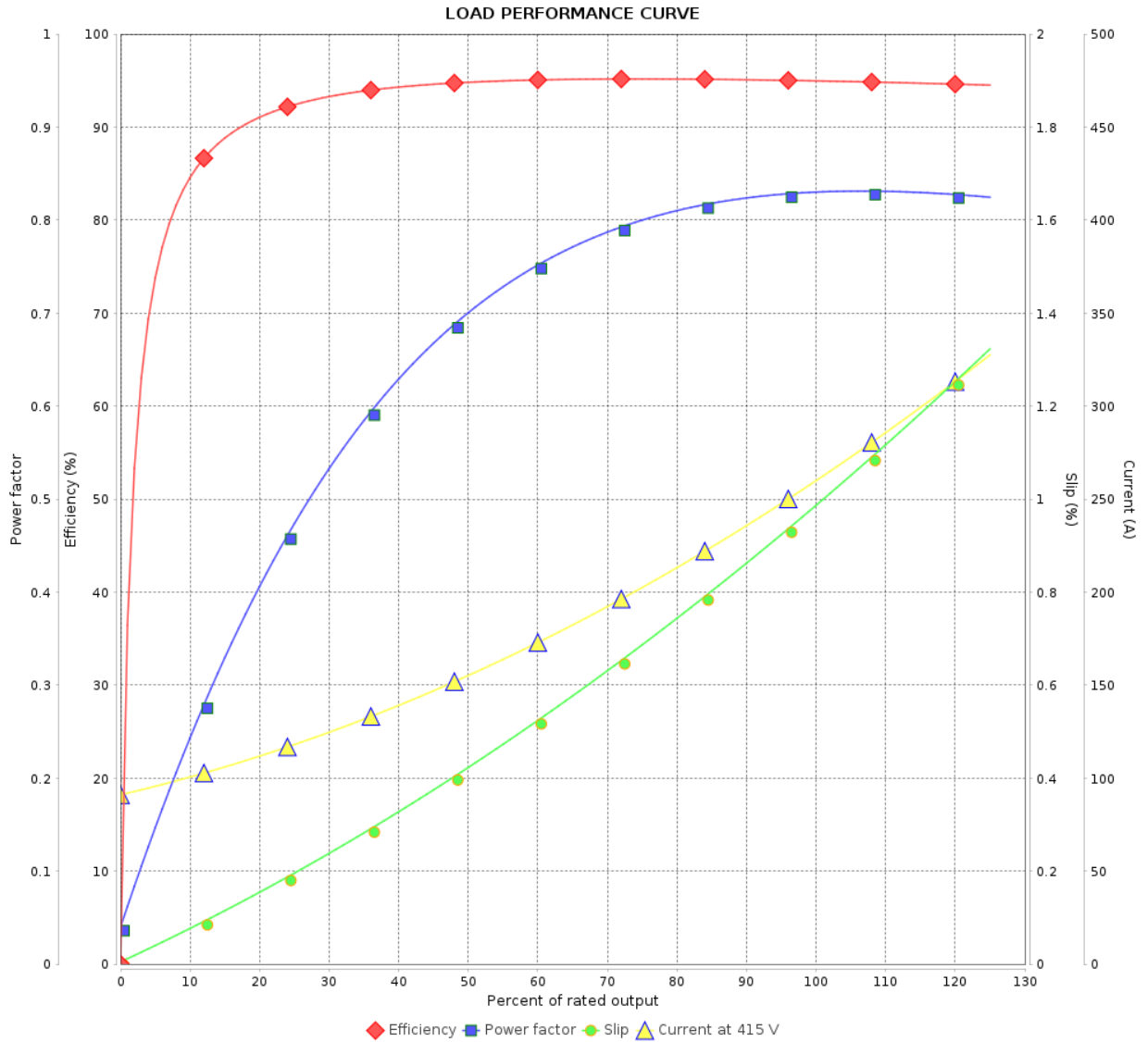
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14171928



Performance : 415 V 50 Hz 6P IE2

Rated current : 265 A
 LRC : 6.0
 Rated torque : 147 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 220 %
 Rated speed : 990 rpm

Moment of inertia (J) : 6.09 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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