

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase
Product code : 11166454

Frame : 586/7T	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 ² : 1582 kg
Protection degree : IP55	Moment of inertia (J) : 9.53 kgm ²
Design : B	

Output [HP]	250	220	220	220	250	250	250
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]	598/299	310	298	291	361	341	333
L. R. Amperes [A]	3648/1824	1705	1818	1892	1733	1841	1931
LRC [A]	6.1x(Code G)	5.5x(Code F)	6.1x(Code G)	6.5x(Code G)	4.8x(Code E)	5.4x(Code F)	5.8x(Code F)
No load current [A]	240/120	118	128	137	118	128	137
Rated speed [RPM]	1192	992	993	994	990	991	992
Slip [%]	0.67	0.80	0.70	0.60	1.00	0.90	0.80
Rated torque [kgfm]	152	161	161	161	183	183	183
Locked rotor torque [%]	190	160	180	210	140	160	180
Breakdown torque [%]	210	190	220	229	170	190	200
Service factor	1.15	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	105 K	105 K	80 K	105 K	105 K	105 K
Locked rotor time	54s (cold) 30s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)
Noise level ²	77.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
Efficiency (%)	25%						
	50%	95.0	94.8	94.9	94.5	95.4	95.0
	75%	95.4	95.3	95.5	95.4	95.0	95.4
	100%	95.8	95.6	95.6	95.6	95.0	95.4
Power Factor	25%						
	50%	0.68	0.69	0.65	0.62	0.74	0.67
	75%	0.77	0.79	0.77	0.74	0.80	0.78
	100%	0.81	0.82	0.81	0.80	0.82	0.82

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

Losses (%)	P1 (0,9;1,0)	4.7	4.7	4.7	4.7	4.7	4.7
	P2 (0,5;1,0)	3.4	3.4	3.4	3.4	3.4	3.4
	P3 (0,25;1,0)	2.7	2.7	2.7	2.7	2.7	2.7
	P4 (0,9;0,5)	2.9	2.9	2.9	2.9	2.9	2.9
	P5 (0,5;0,5)	1.8	1.8	1.8	1.8	1.8	1.8
	P6 (0,5;0,25)	1.4	1.4	1.4	1.4	1.4	1.4
	P7 (0,25;0,25)	0.8	0.8	0.8	0.8	0.8	0.8

Bearing type	: Drive end : NU-322 C3	Non drive end : 6319 C3	Foundation loads Max. traction : 1713 kgf Max. compression : 3295 kgf
Sealing	: Taconite	Taconite	
	: Labyrinth	Labyrinth	
Lubrication interval	: 7000 h	13000 h	
Lubricant amount	: 60 g	45 g	
Lubricant type	: Mobil Polyrex EM		

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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Notes
USABLE @208V 661A SF 1.00 SFA 661A

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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Space heater information

Voltage: 200 - 240 V

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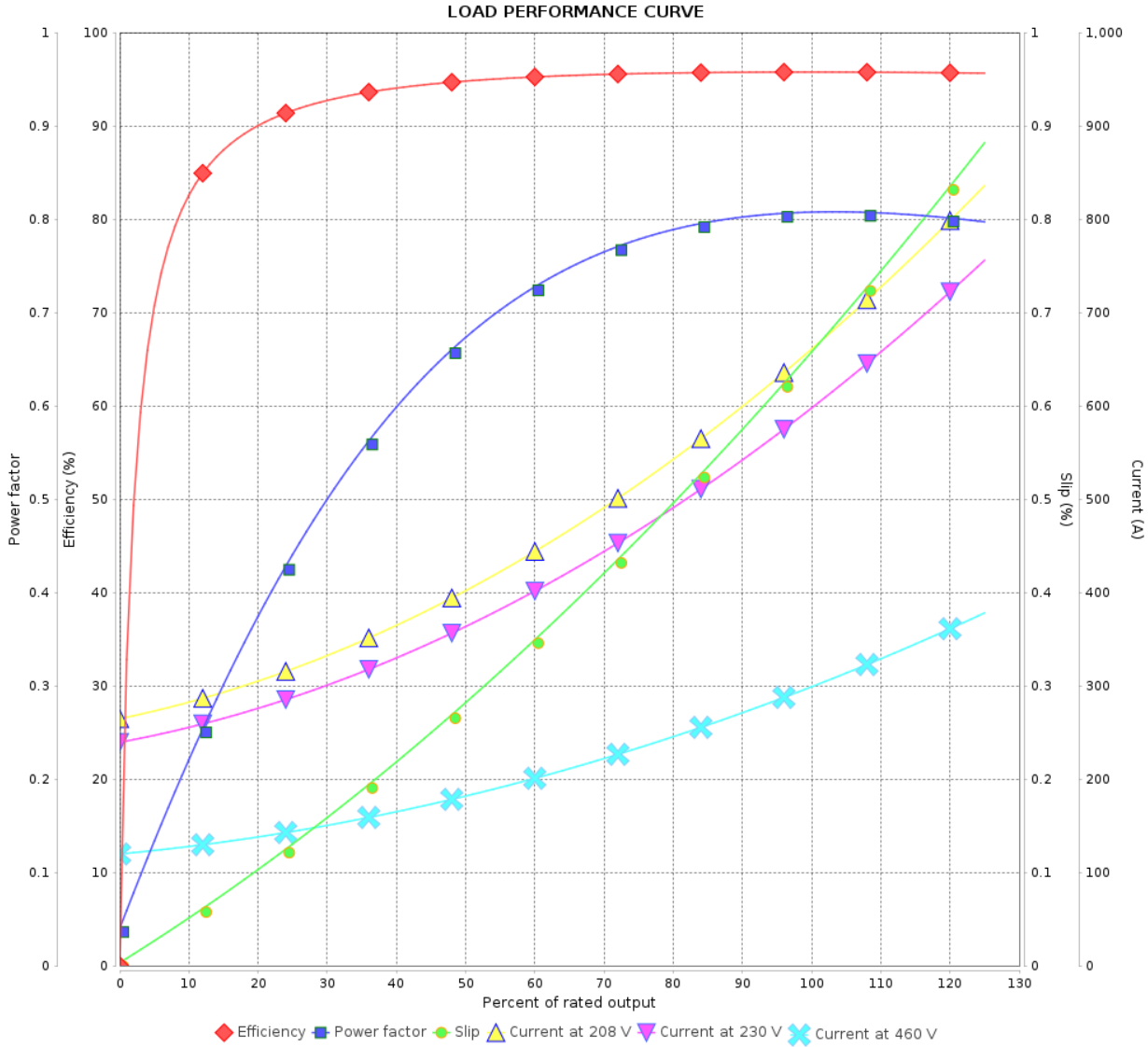
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11166454



Performance : 230/460 V 60 Hz 6P

Rated current : 598/299 A
 LRC : 6.1
 Rated torque : 152 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 210 %
 Rated speed : 1192 rpm

Moment of inertia (J) : 9.53 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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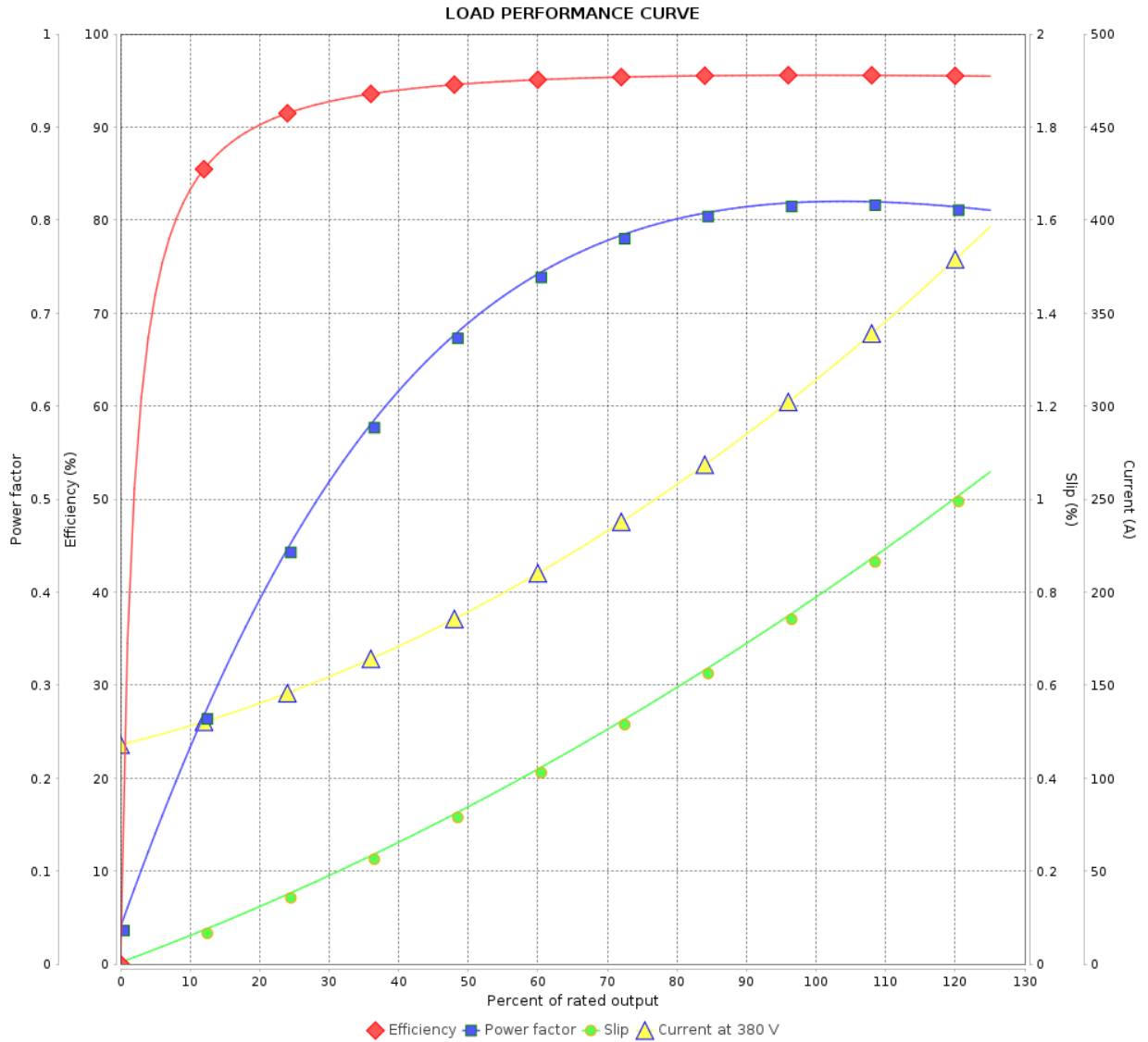
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11166454



Performance : 380 V 50 Hz 6P IE3

Rated current : 310 A
 LRC : 5.5
 Rated torque : 161 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 190 %
 Rated speed : 992 rpm

Moment of inertia (J) : 9.53 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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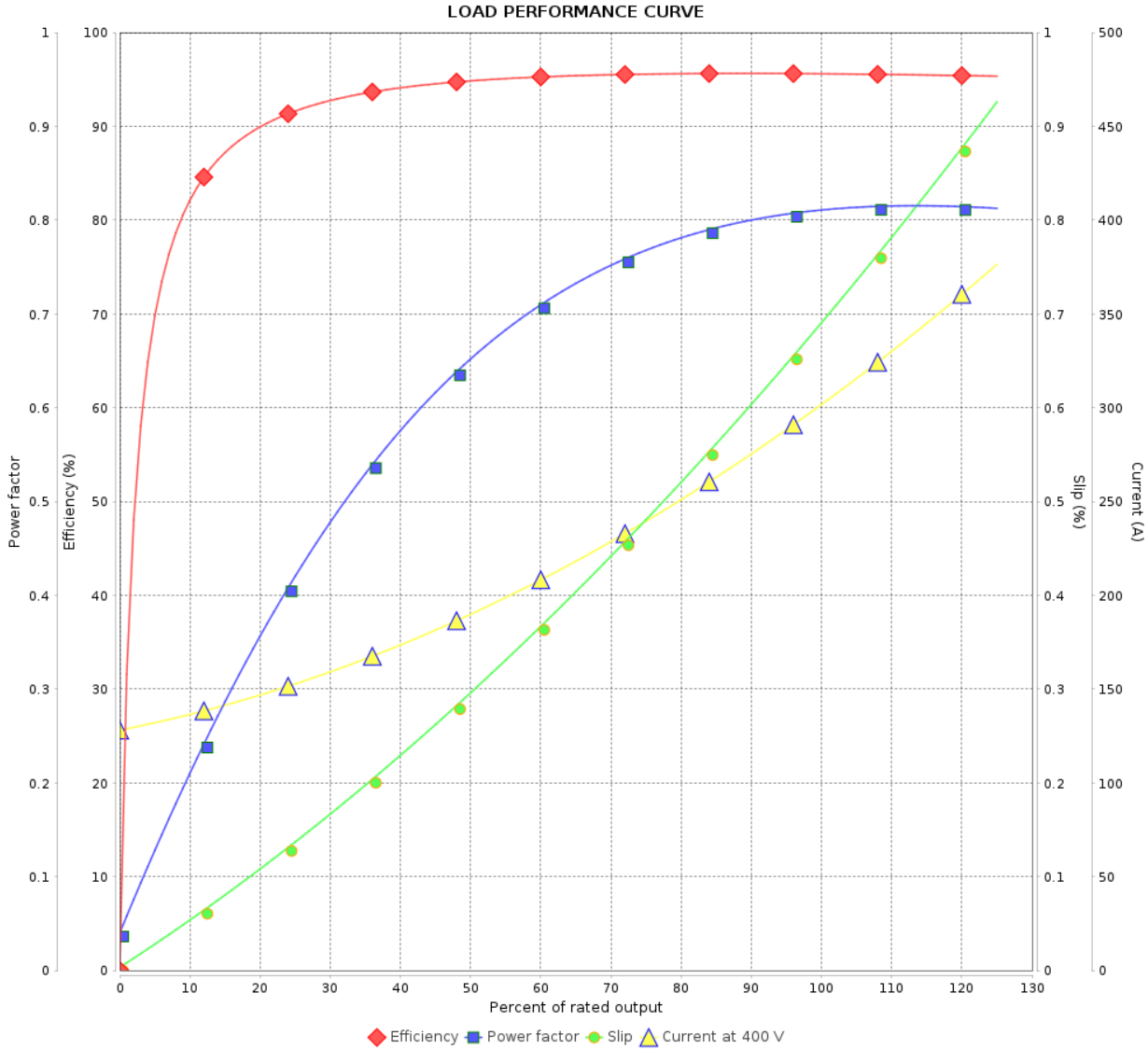
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11166454



Performance : 400 V 50 Hz 6P IE3

Rated current	: 298 A	Moment of inertia (J)	: 9.53 kgm ²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 161 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 993 rpm	Design	: B

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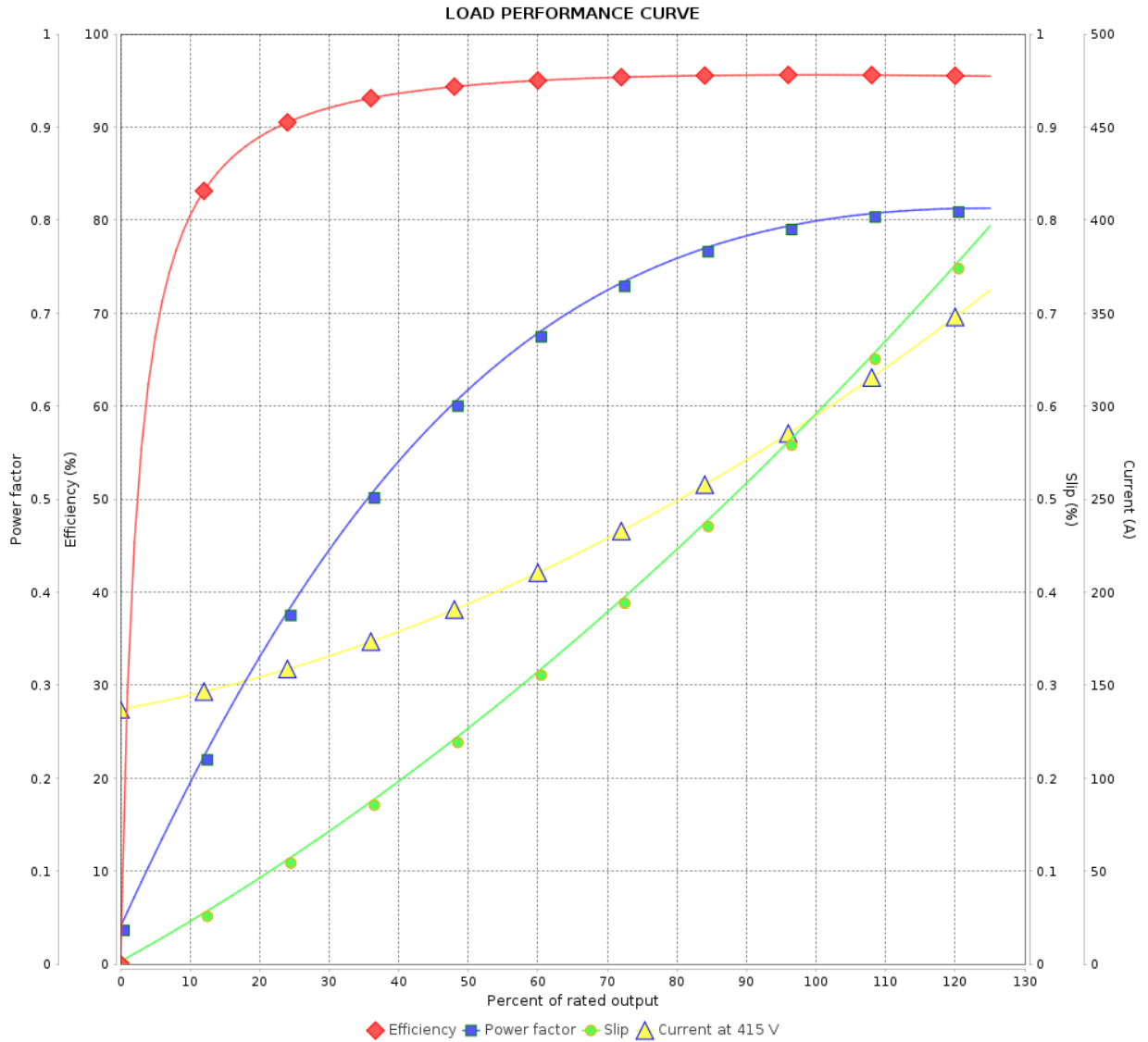
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11166454



Performance : 415 V 50 Hz 6P IE3

Rated current : 291 A
 LRC : 6.5
 Rated torque : 161 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 229 %
 Rated speed : 994 rpm

Moment of inertia (J) : 9.53 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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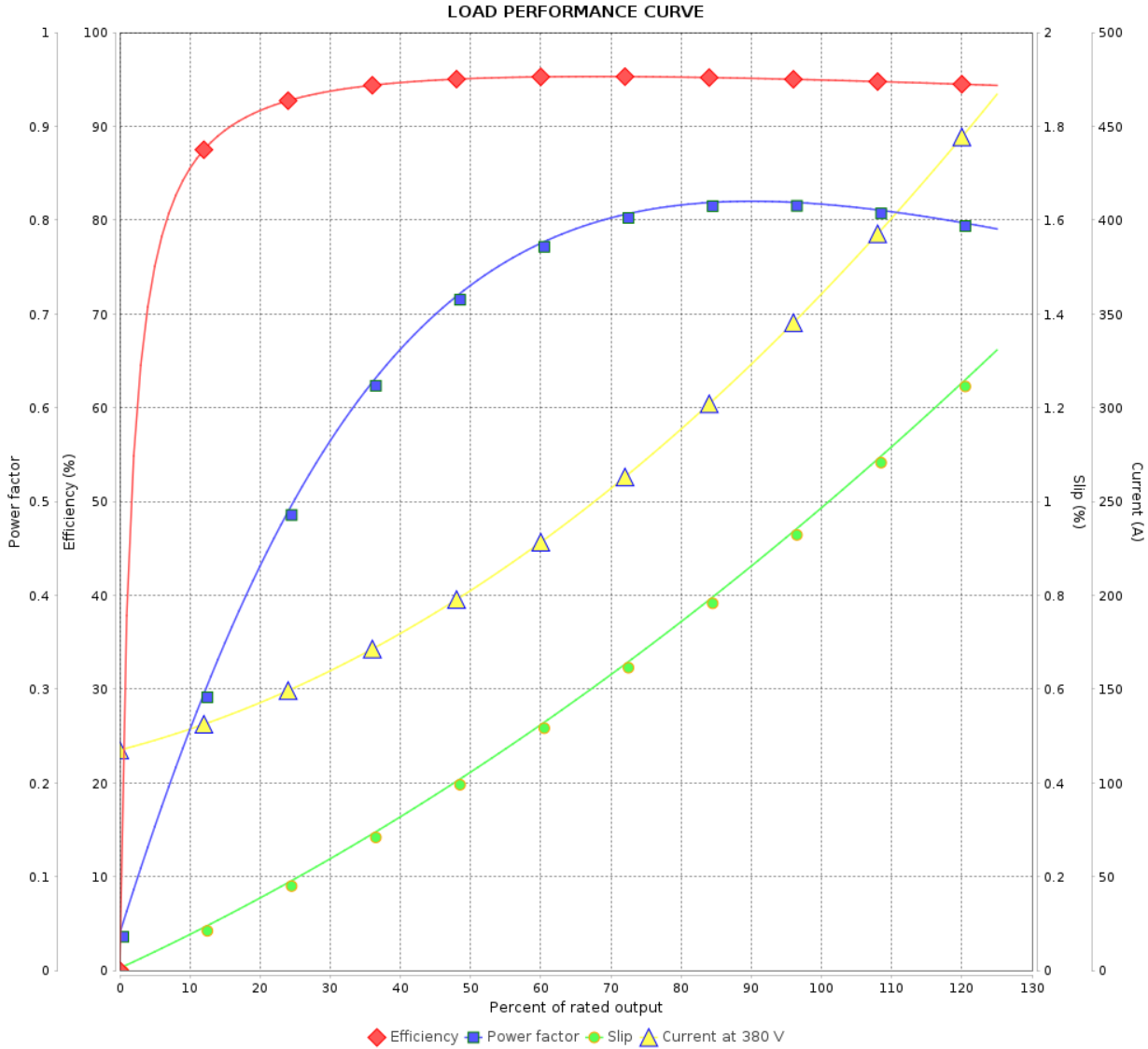
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11166454



Performance : 380 V 50 Hz 6P IE2

Rated current	: 361 A	Moment of inertia (J)	: 9.53 kgm ²
LRC	: 4.8	Duty cycle	: Cont.(S1)
Rated torque	: 183 kgfm	Insulation class	: F
Locked rotor torque	: 140 %	Service factor	: 1.00
Breakdown torque	: 170 %	Temperature rise	: 105 K
Rated speed	: 990 rpm	Design	: B

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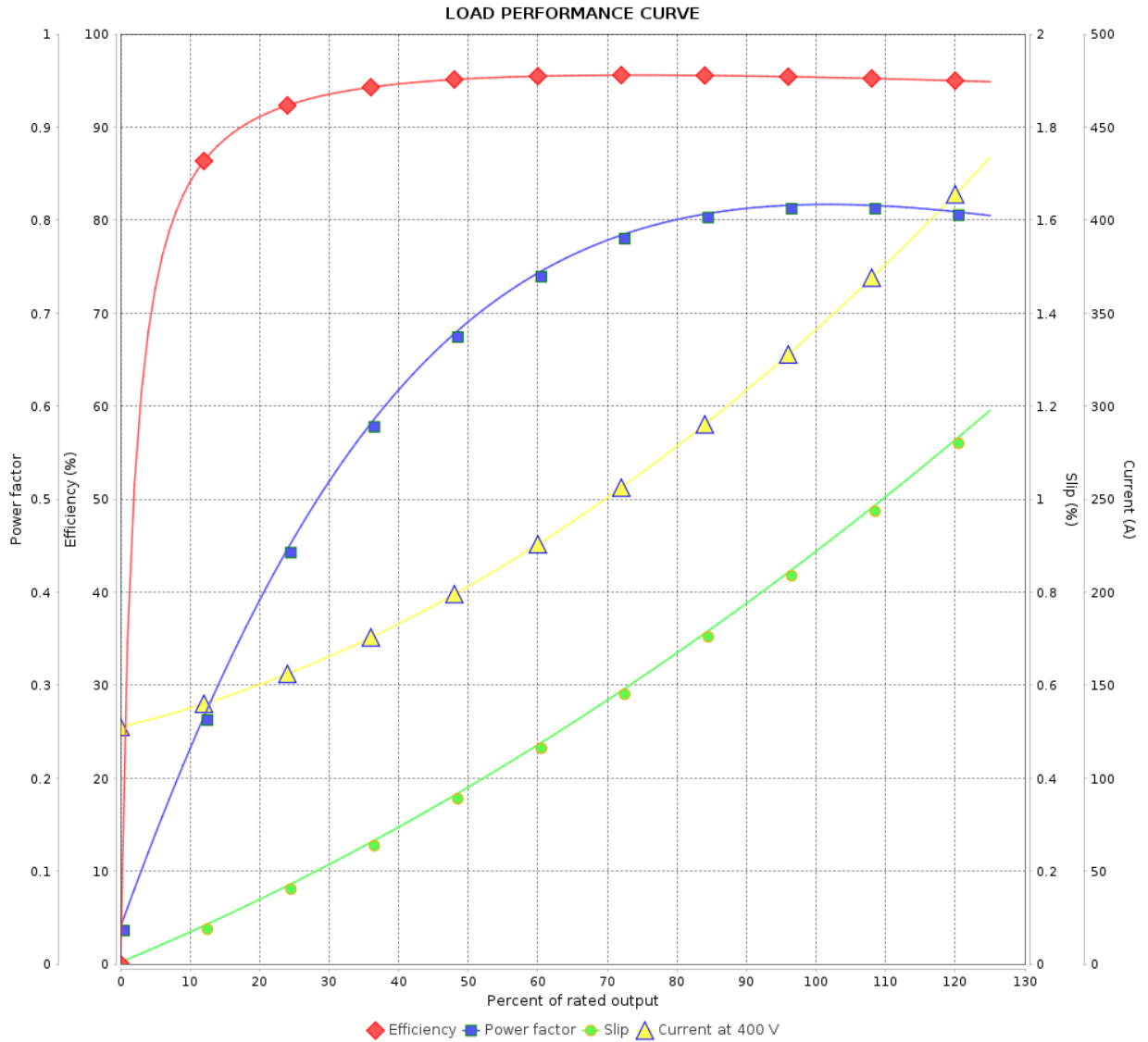
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11166454



Performance : 400 V 50 Hz 6P IE2

Rated current : 341 A
 LRC : 5.4
 Rated torque : 183 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 190 %
 Rated speed : 991 rpm

Moment of inertia (J) : 9.53 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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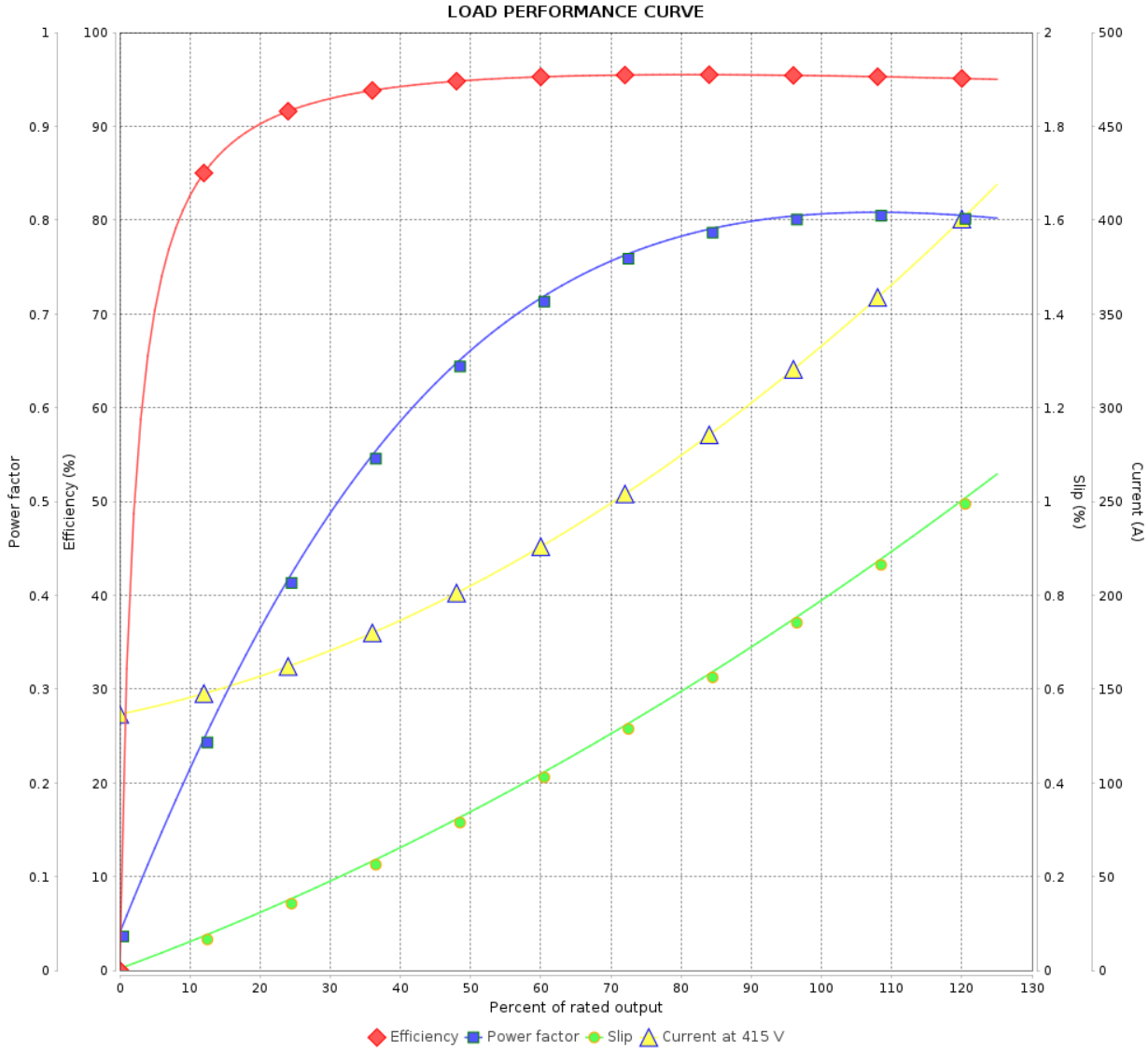
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11166454



Performance : 415 V 50 Hz 6P IE2

Rated current : 333 A
 LRC : 5.8
 Rated torque : 183 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 200 %
 Rated speed : 992 rpm

Moment of inertia (J) : 9.53 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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