

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12911271

Frame : 444/5TC	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 : 715 kg
Protection degree : IP55	Moment of inertia (J) : 3.68 kgm ²
Design : B	

Output [HP]	100	75	75	75	100	100	100
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]	242/121	110	106	105	147	139	135
L. R. Amperes [A]	1498/749	745	798	840	733	763	812
LRC [A]	6.2x(Code G)	6.8x(Code H)	7.5x(Code J)	8.0x(Code K)	5.0x(Code E)	5.5x(Code F)	6.0x(Code G)
No load current [A]	98.0/49.0	48.5	52.5	55.5	49.0	52.5	55.5
Rated speed [RPM]	1188	990	991	992	983	985	987
Slip [%]	1.00	1.00	0.90	0.80	1.70	1.50	1.30
Rated torque [kgfm]	61	54	54	54	73	73	73
Locked rotor torque [%]	210	229	250	270	170	190	200
Breakdown torque [%]	240	260	300	320	200	200	229
Service factor	1.25	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	36s (cold) 20s (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	69.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%						
	50%	94.5	93.8	93.8	93.7	94.5	94.0
	75%	95.0	94.3	94.6	94.6	94.0	94.0
	100%	95.0	94.2	94.5	94.6	93.6	94.0
Power Factor	25%						
	50%	0.68	0.64	0.60	0.57	0.73	0.68
	75%	0.78	0.75	0.72	0.71	0.81	0.77
	100%	0.82	0.81	0.79	0.77	0.83	0.82

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

Losses (%)	P1 (0,9;1,0)	5.2	6.1	5.8	5.7	6.8	6.3	6.3
	P2 (0,5;1,0)	4.2	4.9	4.6	4.6	5.5	5.1	5.1
	P3 (0,25;1,0)	3.8	4.5	4.2	4.2	5.0	4.7	4.7
	P4 (0,9;0,5)	2.7	3.2	3.0	3.0	3.6	3.3	3.3
	P5 (0,5;0,5)	1.8	2.2	2.0	2.0	2.4	2.2	2.2
	P6 (0,5;0,25)	1.3	1.5	1.4	1.4	1.7	1.6	1.6
	P7 (0,25;0,25)	0.9	1.0	0.9	0.9	1.1	1.0	1.0

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6319 C3	6316 C3	Max. traction : 1119 kgf
Sealing :	WSeal	WSeal	Max. compression : 1839 kgf
Lubrication interval :	13000 h	16000 h	
Lubricant amount :	45 g	34 g	
Lubricant type :	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 268A SF 1.10 SFA 294A

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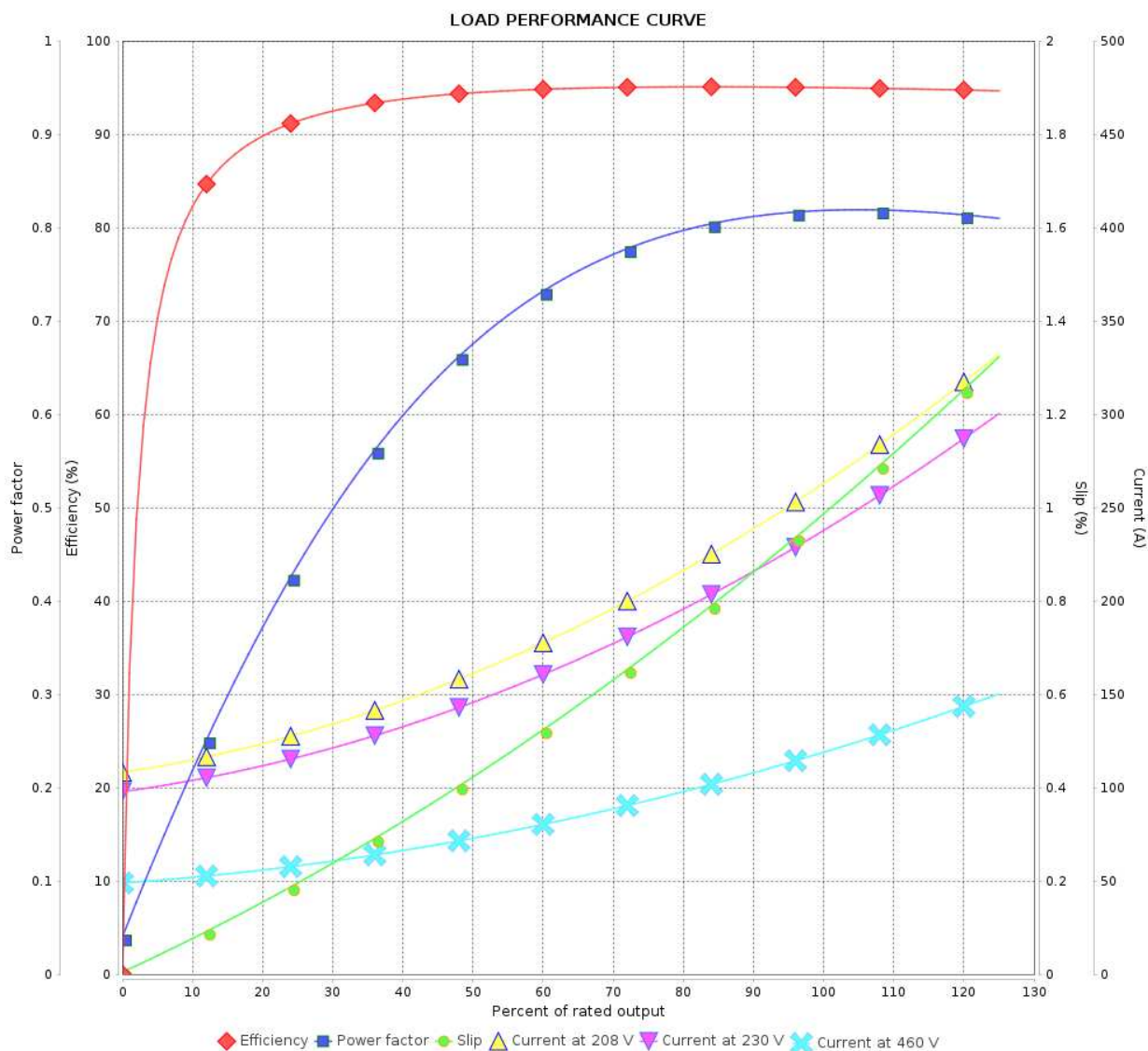
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12911271



Performance : 230/460 V 60 Hz 6P

Rated current : 242/121 A
LRC : 6.2
Rated torque : 61 kgfm
Locked rotor torque : 210 %
Breakdown torque : 240 %
Rated speed : 1188 rpm

Moment of inertia (J) : 3.68 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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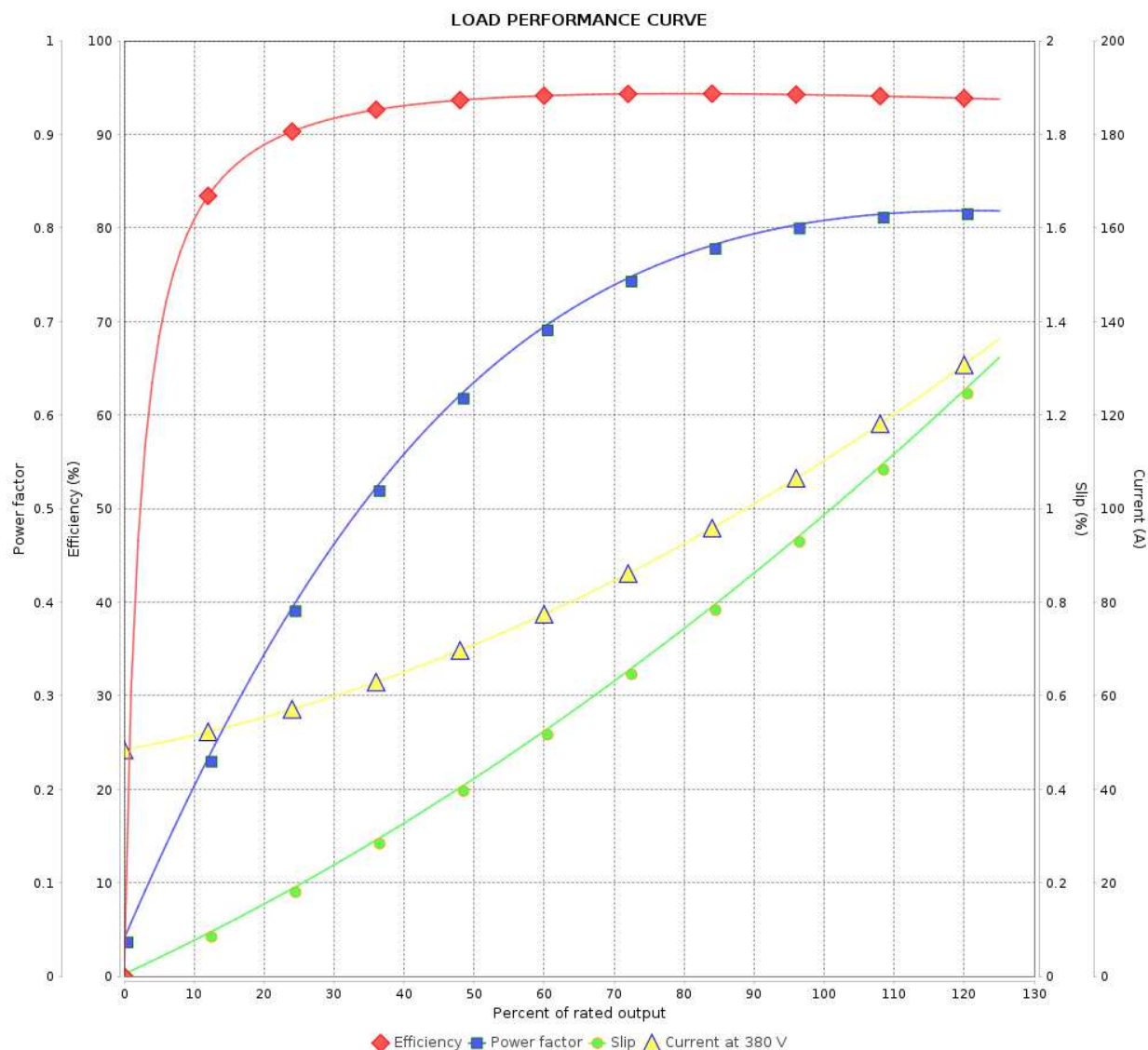
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12911271



Performance : 380 V 50 Hz 6P IE3

Rated current : 110 A
LRC : 6.8
Rated torque : 54 kgfm
Locked rotor torque : 229 %
Breakdown torque : 260 %
Rated speed : 990 rpm

Moment of inertia (J) : 3.68 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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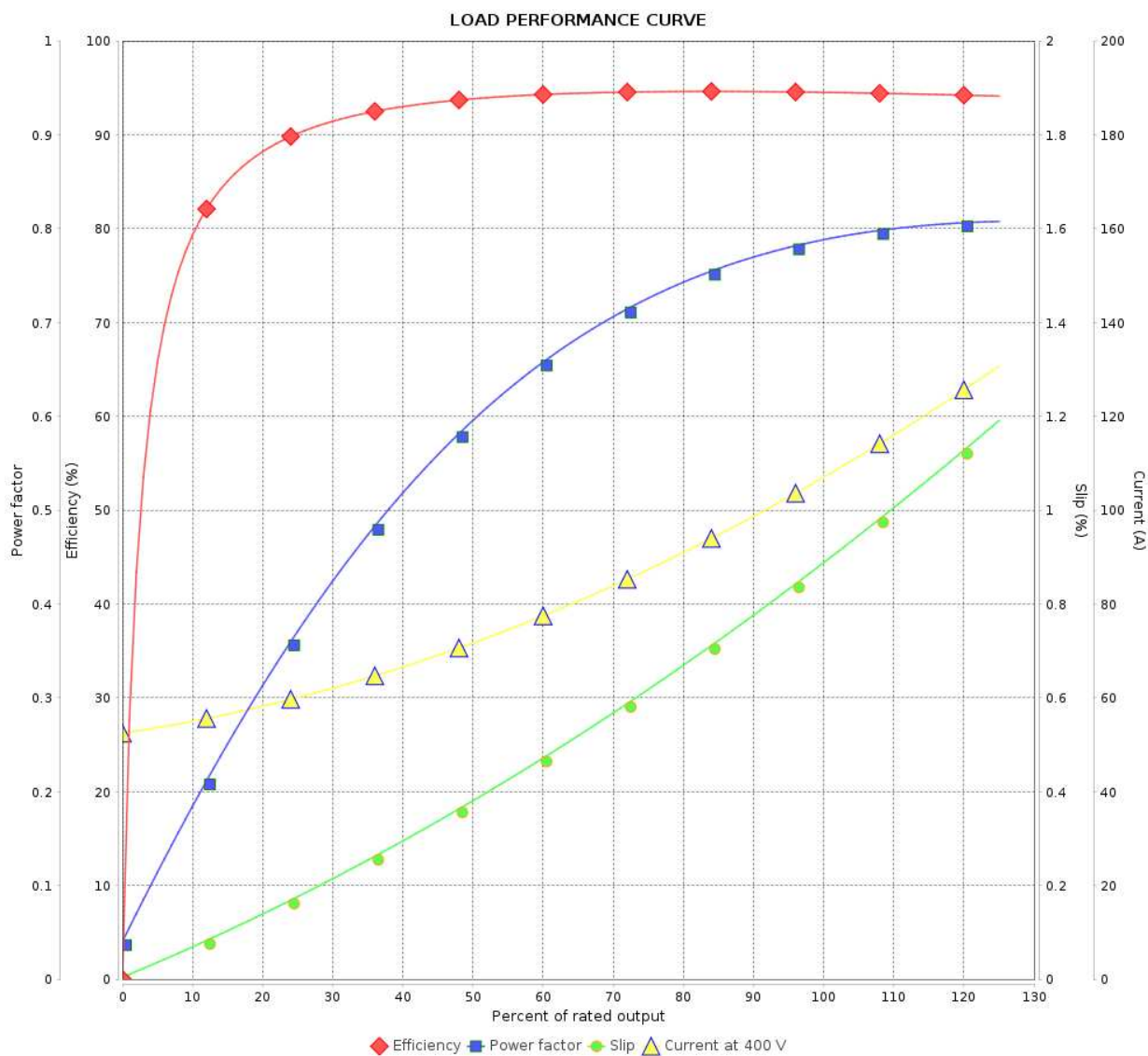
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12911271



Performance : 400 V 50 Hz 6P IE3

Rated current : 106 A
LRC : 7.5
Rated torque : 54 kgfm
Locked rotor torque : 250 %
Breakdown torque : 300 %
Rated speed : 991 rpm

Moment of inertia (J) : 3.68 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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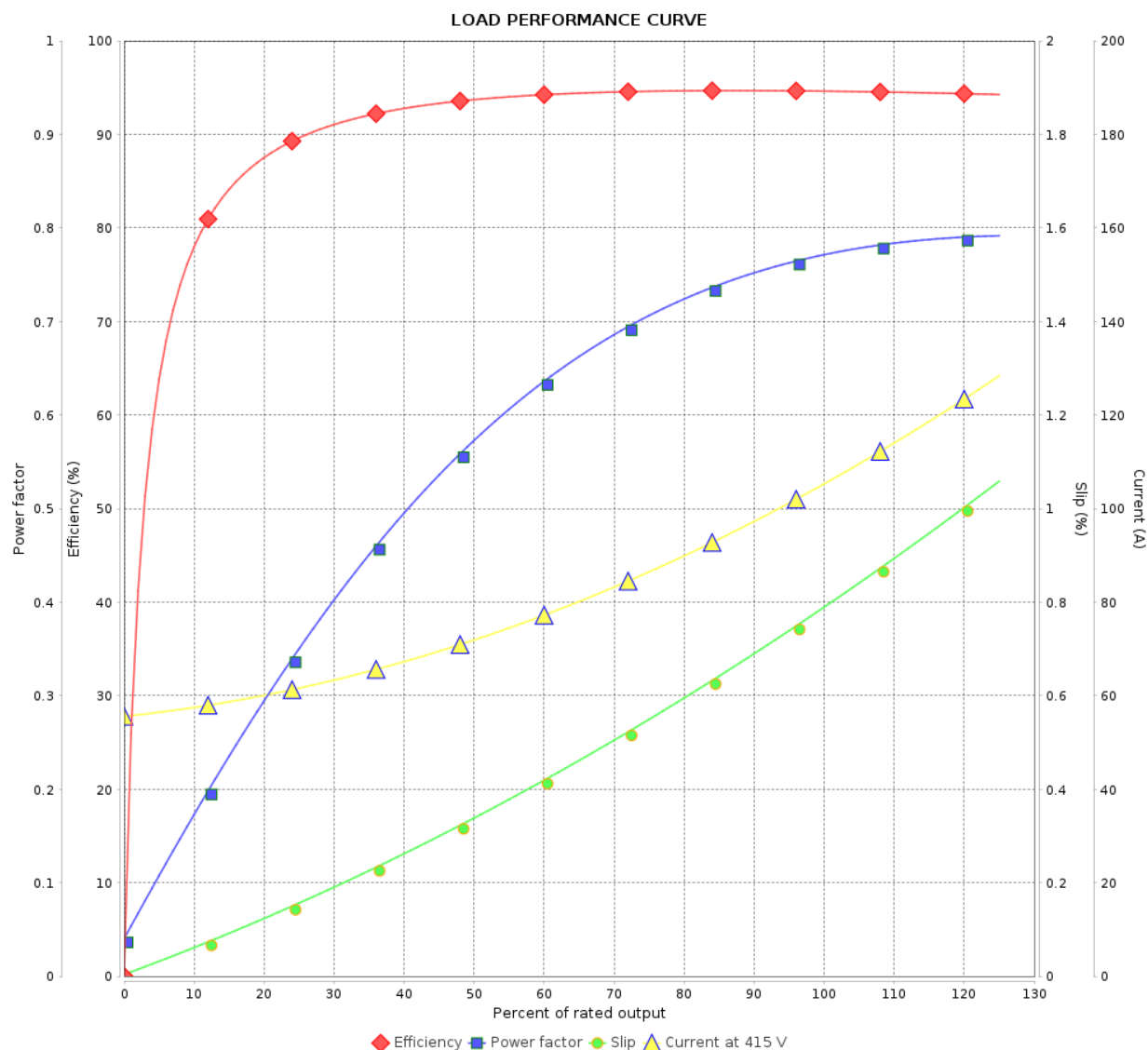
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12911271



Performance : 415 V 50 Hz 6P IE3

Rated current : 105 A
LRC : 8.0
Rated torque : 54 kgfm
Locked rotor torque : 270 %
Breakdown torque : 320 %
Rated speed : 992 rpm

Moment of inertia (J) : 3.68 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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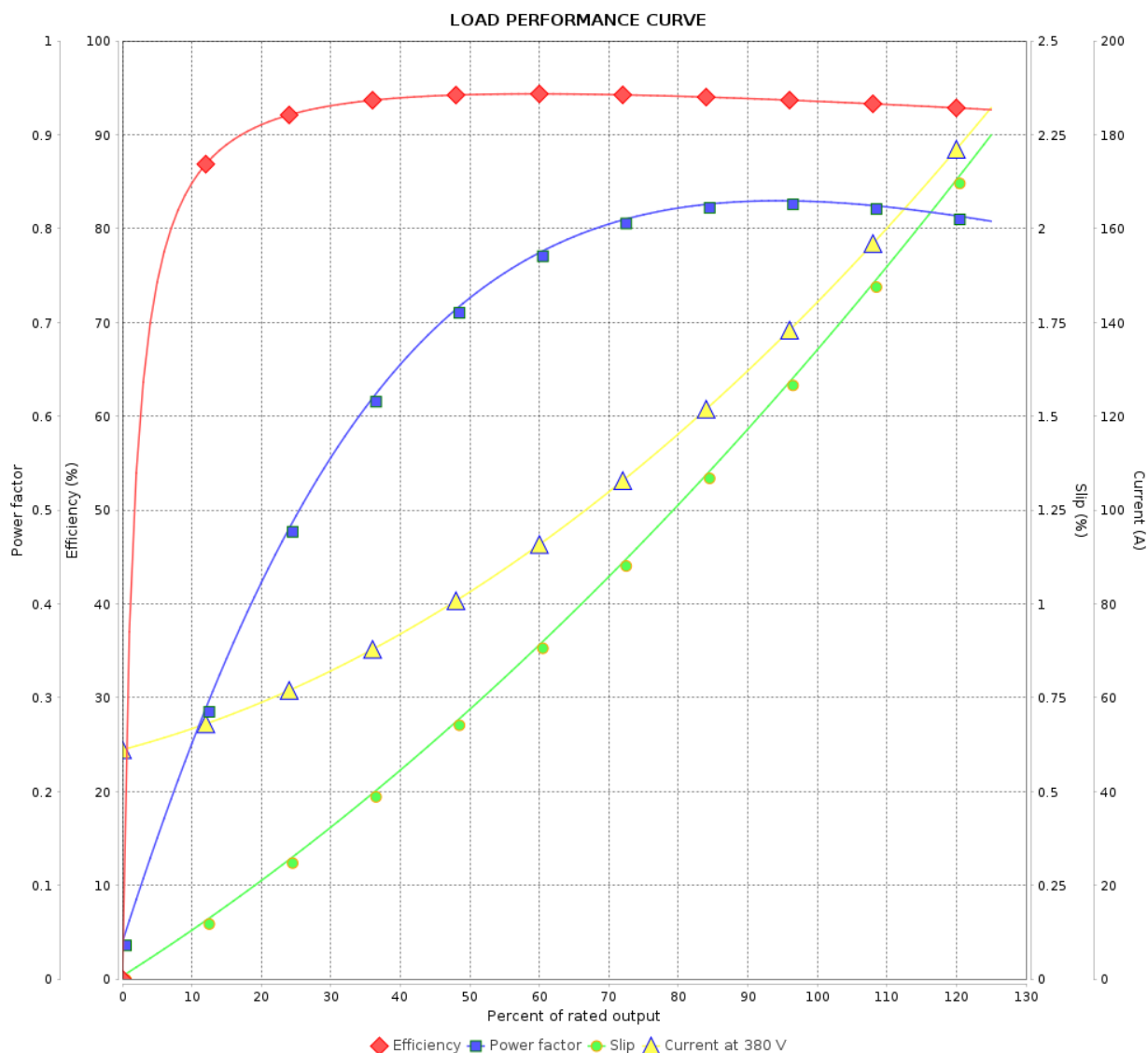
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12911271



Performance : 380 V 50 Hz 6P IE1

Rated current : 147 A
LRC : 5.0
Rated torque : 73 kgfm
Locked rotor torque : 170 %
Breakdown torque : 200 %
Rated speed : 983 rpm

Moment of inertia (J) : 3.68 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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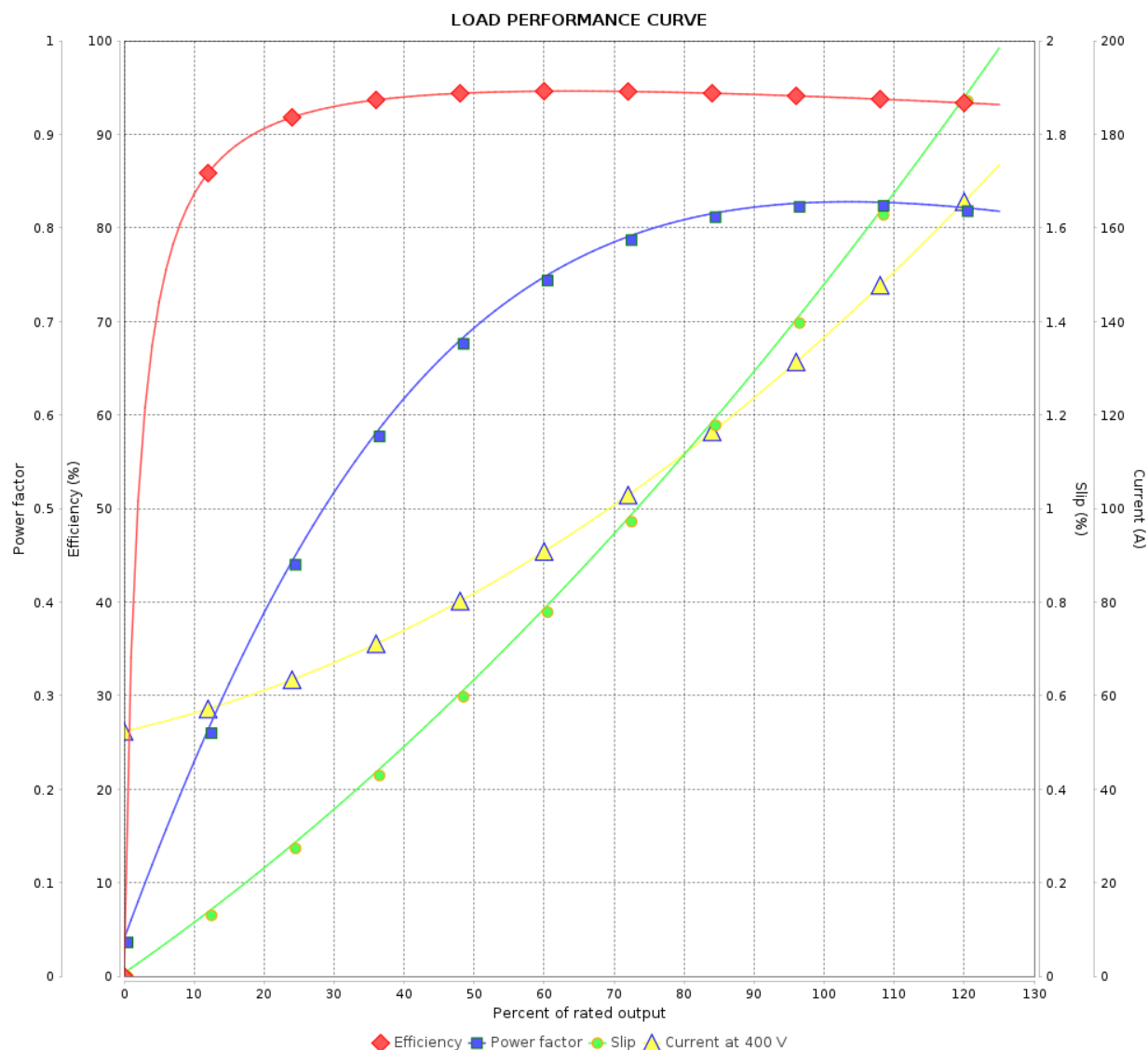
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12911271



Performance : 400 V 50 Hz 6P IE2

Rated current : 139 A
LRC : 5.5
Rated torque : 73 kgfm
Locked rotor torque : 190 %
Breakdown torque : 200 %
Rated speed : 985 rpm

Moment of inertia (J) : 3.68 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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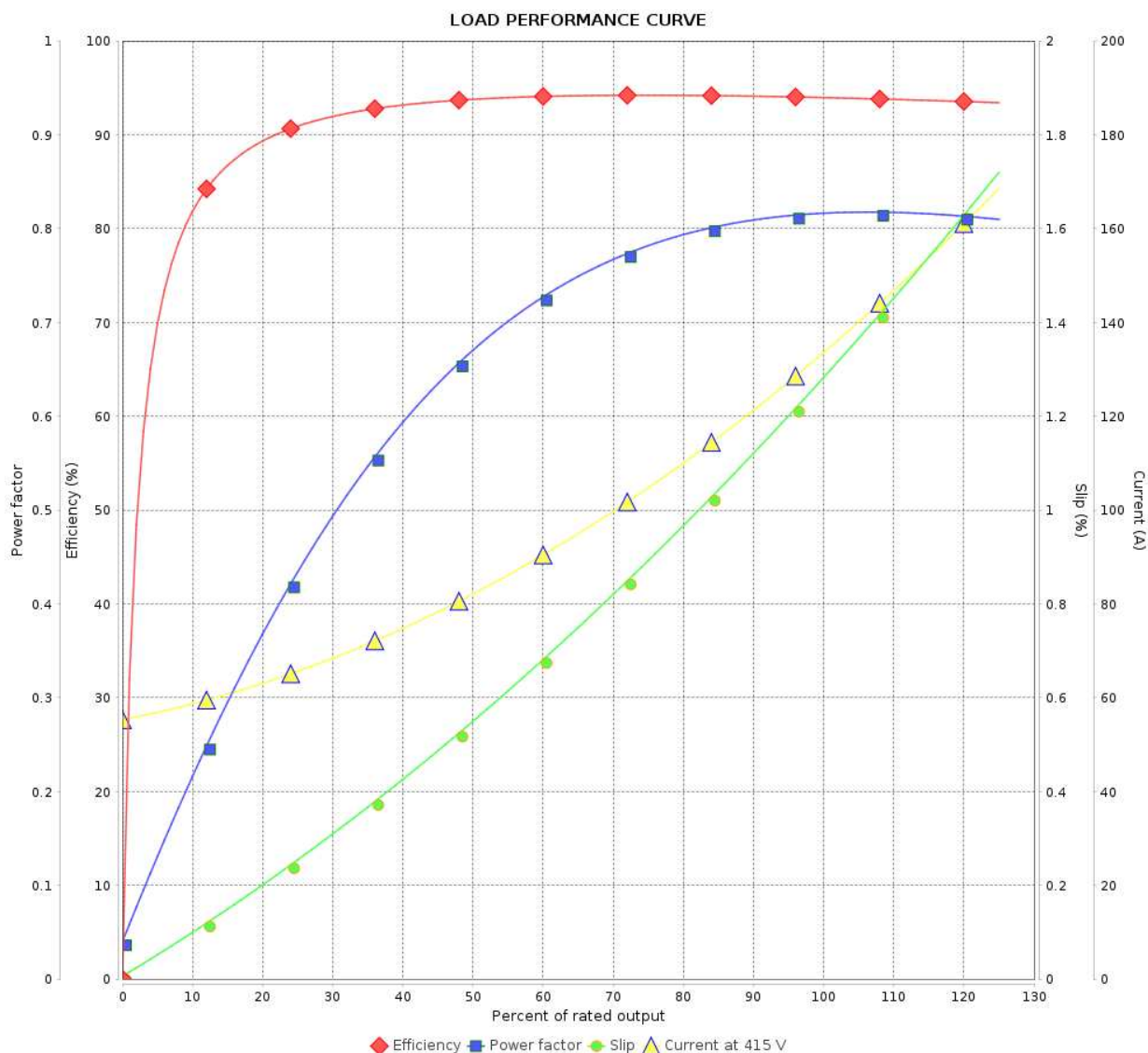
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12911271



Performance : 415 V 50 Hz 6P IE2

Rated current	: 135 A	Moment of inertia (J)	: 3.68 kgm ²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 73 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 987 rpm	Design	: B

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