

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12447065

Frame	: 324/6T	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	: 237 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.4843 kgm ²
Design	: B		

Output [HP]	25	20	20	20	25	25	25
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]	61.6/30.8	30.3	29.4	29.0	36.8	35.1	34.2
L. R. Amperes [A]	382/191	182	191	203	180	189	199
LRC [A]	6.2x(Code G)	6.0x(Code G)	6.5x(Code H)	7.0x(Code J)	4.9x(Code E)	5.4x(Code F)	5.8x(Code G)
No load current [A]	28.0/14.0	13.2	14.2	14.9	13.2	14.2	14.9
Rated speed [RPM]	1180	980	983	985	975	975	980
Slip [%]	1.67	2.00	1.70	1.50	2.50	2.50	2.00
Rated torque [kgfm]	15.4	14.8	14.8	14.7	18.6	18.6	18.5
Locked rotor torque [%]	210	200	229	250	160	180	200
Breakdown torque [%]	260	250	290	310	200	229	250
Service factor	1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	46s (cold) 26s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%						
	50%	92.4	91.1	91.1	91.1	91.7	91.7
	75%	93.0	91.8	92.2	92.2	92.4	92.4
	100%	93.0	91.6	92.2	92.2	91.0	91.7
Power Factor	25%						
	50%	0.65	0.63	0.60	0.57	0.71	0.68
	75%	0.76	0.76	0.74	0.71	0.80	0.78
	100%	0.81	0.82	0.80	0.78	0.84	0.83

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

Losses (%)	P1 (0,9;1,0)	7.3	8.8	8.2	8.2	9.5	8.7	8.7
	P2 (0,5;1,0)	6.1	7.4	6.8	6.8	8.0	7.3	7.3
	P3 (0,25;1,0)	5.9	7.2	6.7	6.7	7.8	7.1	7.1
	P4 (0,9;0,5)	3.7	4.5	4.1	4.1	4.8	4.4	4.4
	P5 (0,5;0,5)	2.5	3.1	2.9	2.9	3.3	3.1	3.1
	P6 (0,5;0,25)	1.7	2.1	2.0	2.0	2.3	2.1	2.1
	P7 (0,25;0,25)	1.2	1.5	1.4	1.4	1.6	1.5	1.5

Bearing type	: 6312 C3	6212 C3	Foundation loads	
	: V'Ring	V'Ring		Max. traction : 464 kgf
	: 20000 h	20000 h		Max. compression : 701 kgf
	: 21 g	13 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 67.2A SF 1.15 SFA 77.3A

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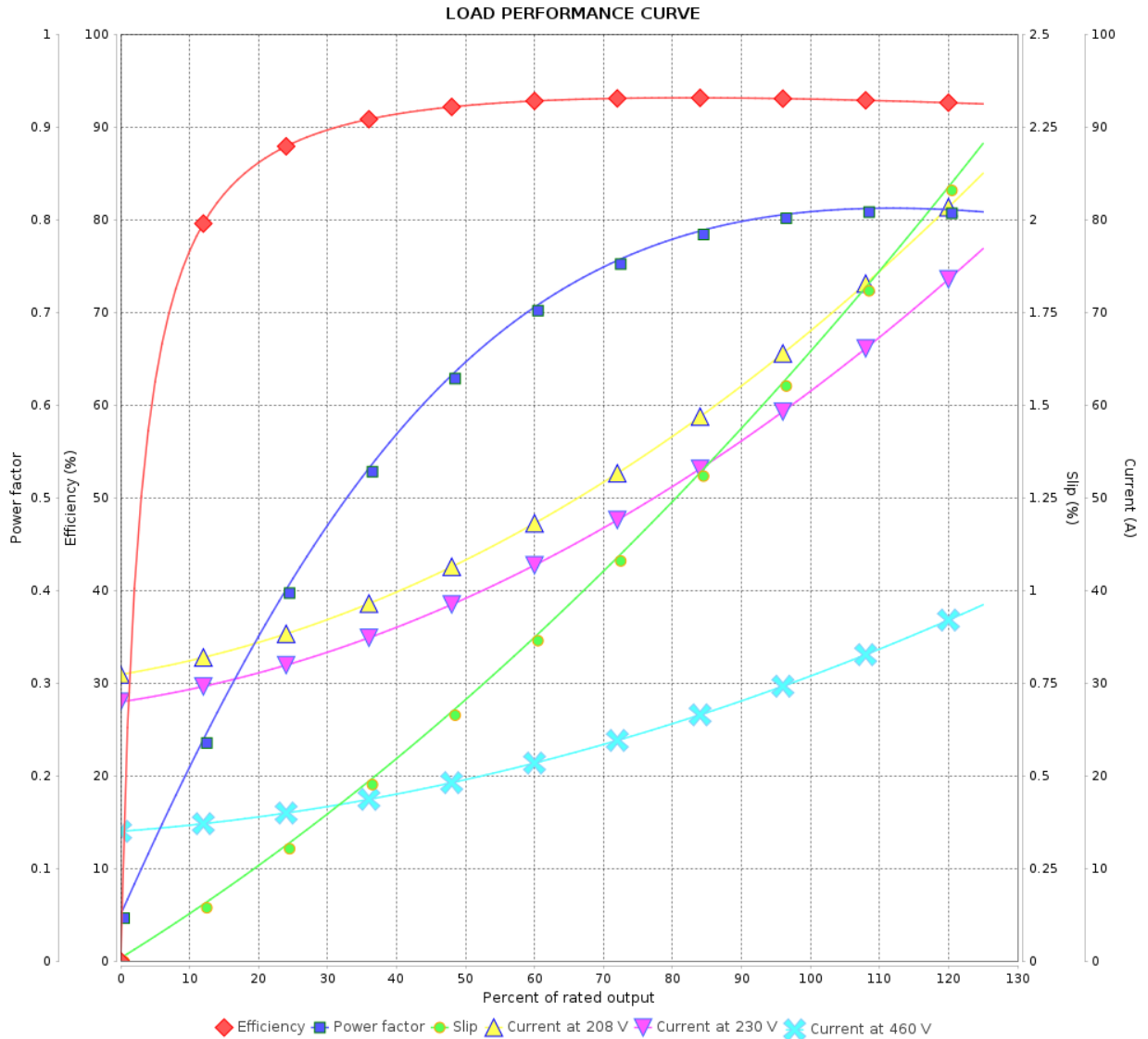
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447065



Performance : 230/460 V 60 Hz 6P

Rated current : 61.6/30.8 A
 LRC : 6.2
 Rated torque : 15.4 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 1180 rpm

Moment of inertia (J) : 0.4843 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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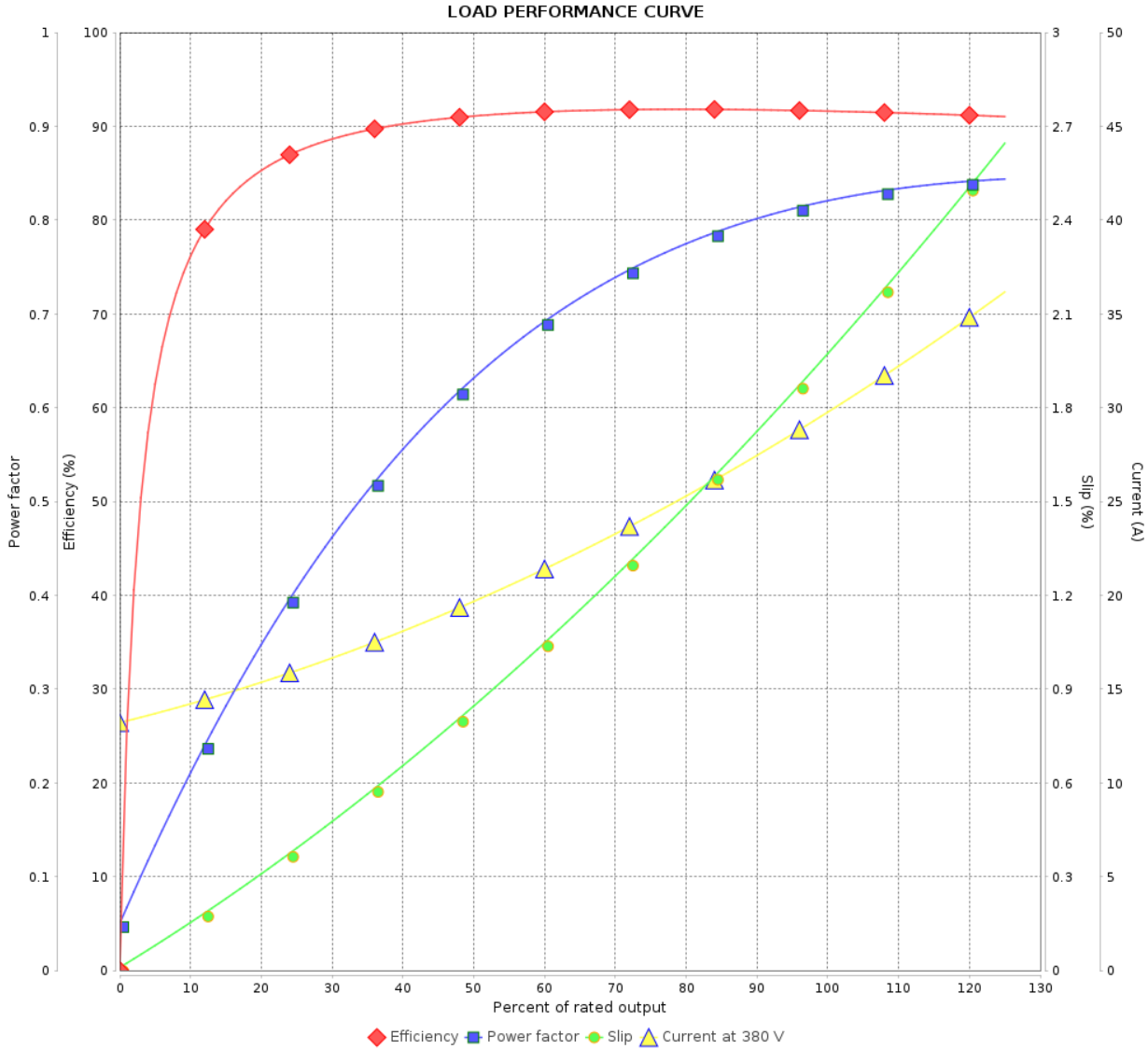
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447065



Performance : 380 V 50 Hz 6P IE3

Rated current : 30.3 A
 LRC : 6.0
 Rated torque : 14.8 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 980 rpm

Moment of inertia (J) : 0.4843 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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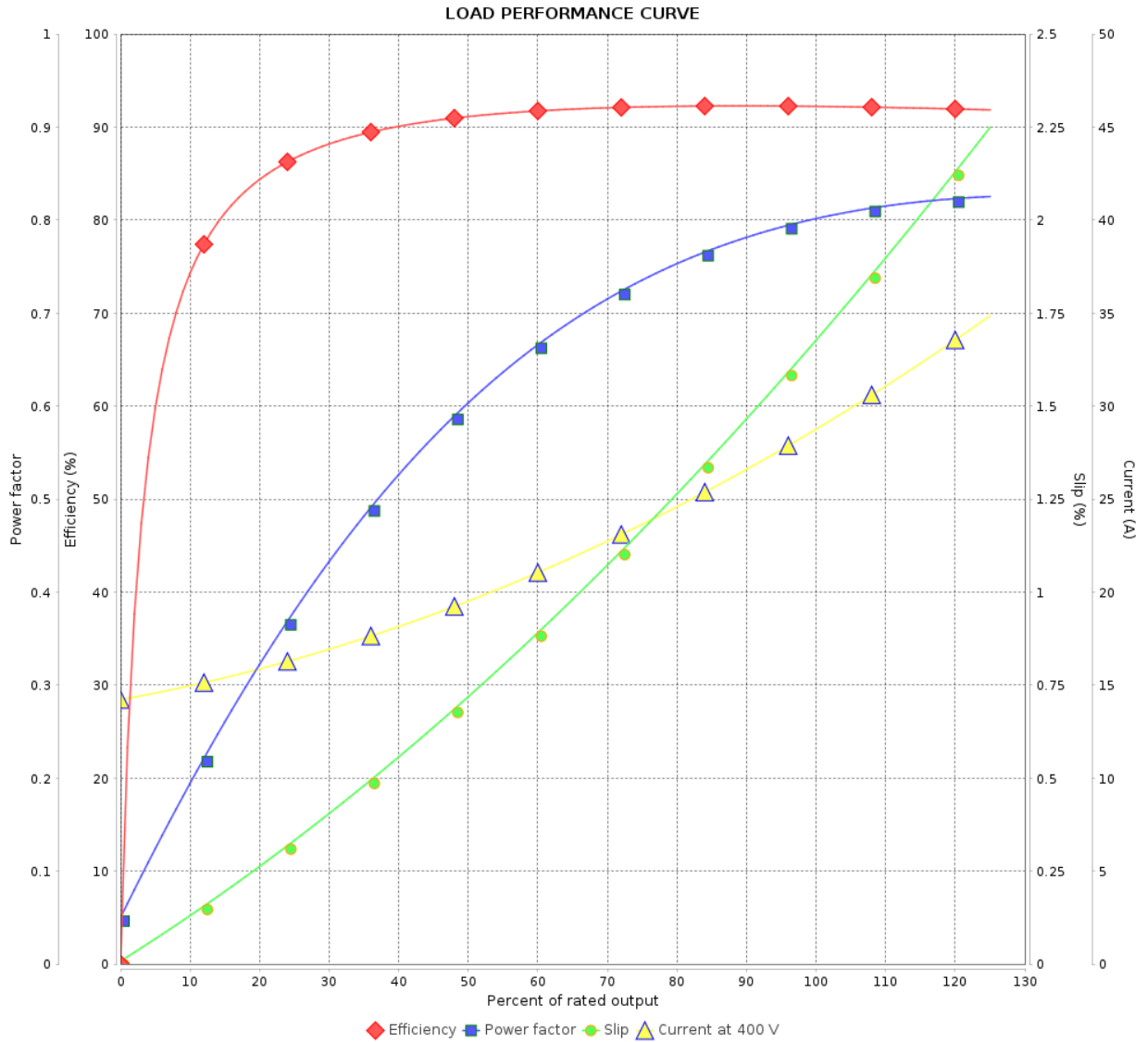
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447065



Performance : 400 V 50 Hz 6P IE3

Rated current : 29.4 A
 LRC : 6.5
 Rated torque : 14.8 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 983 rpm

Moment of inertia (J) : 0.4843 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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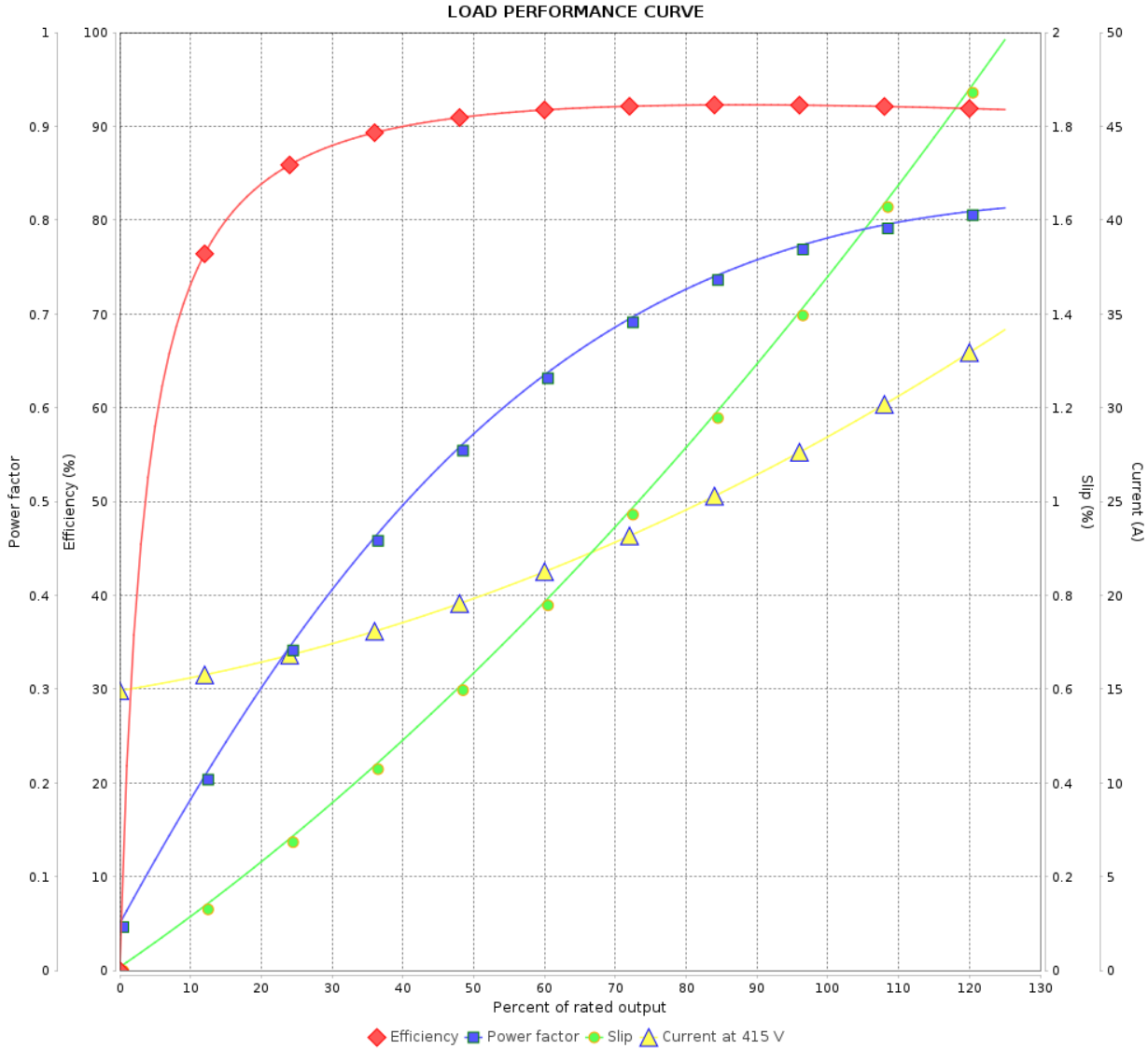
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447065



Performance : 415 V 50 Hz 6P IE3

Rated current : 29.0 A
 LRC : 7.0
 Rated torque : 14.7 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 310 %
 Rated speed : 985 rpm

Moment of inertia (J) : 0.4843 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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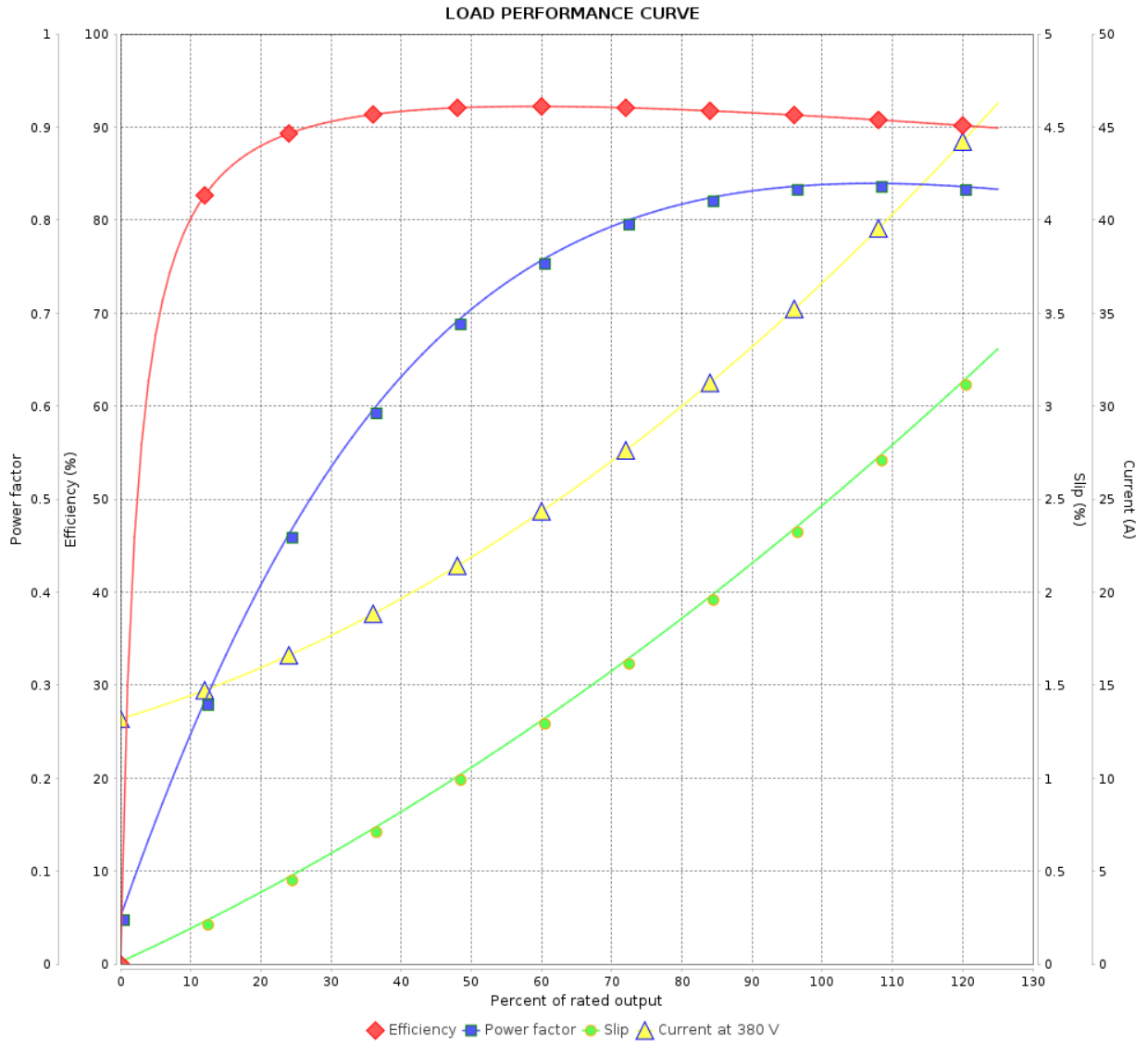
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447065



Performance : 380 V 50 Hz 6P IE2

Rated current : 36.8 A
 LRC : 4.9
 Rated torque : 18.6 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 200 %
 Rated speed : 975 rpm

Moment of inertia (J) : 0.4843 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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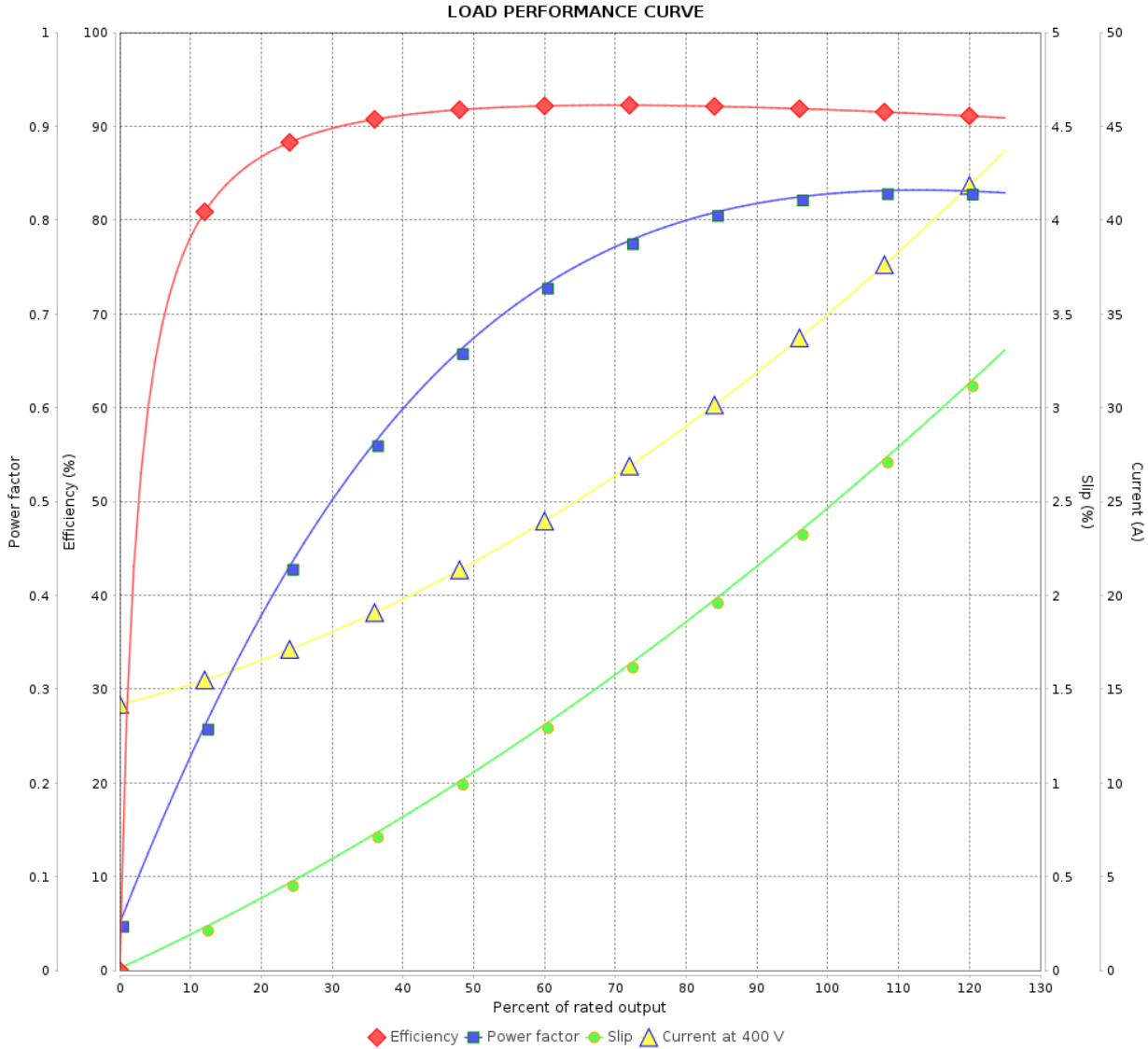
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447065



Performance : 400 V 50 Hz 6P IE3

Rated current : 35.1 A
 LRC : 5.4
 Rated torque : 18.6 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 229 %
 Rated speed : 975 rpm

Moment of inertia (J) : 0.4843 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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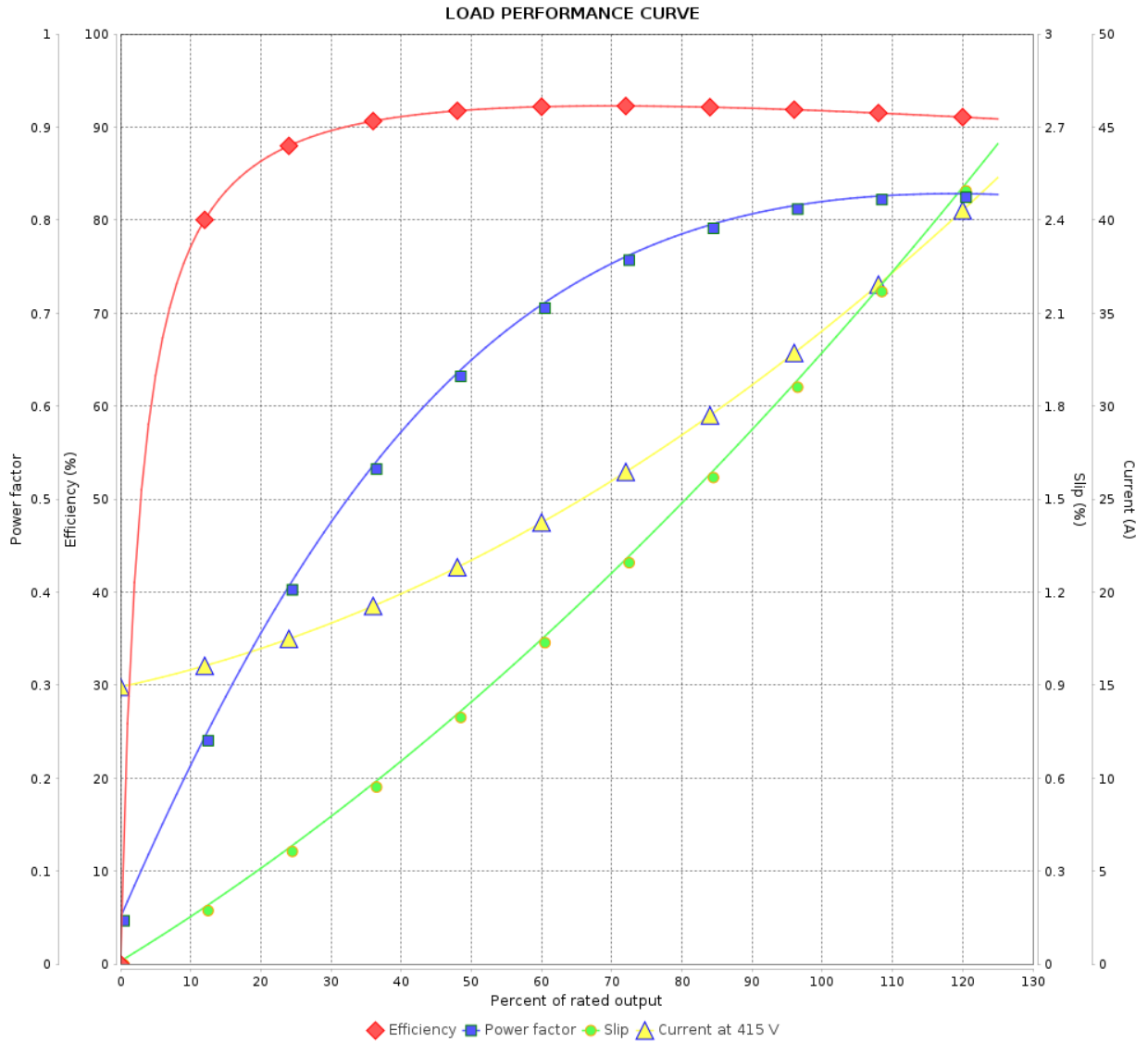
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447065



Performance : 415 V 50 Hz 6P IE3

Rated current : 34.2 A
 LRC : 5.8
 Rated torque : 18.5 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 980 rpm

Moment of inertia (J) : 0.4843 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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