

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11944760

Frame : 444/5T	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 ² : 0.0 kg
Protection degree : IP55	Moment of inertia (J) : 4.37 kgm ²
Design : B	

Output [HP]	125	100	100	100	125	125	125
Poles	6	6	6	6	6	6	6
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	143	143	138	136	172	165	160
L. R. Amperes [A]	901	901	966	1020	860	924	976
LRC [A]	6.3x(Code G)	6.3x(Code G)	7.0x(Code H)	7.5x(Code J)	5.0x(Code E)	5.6x(Code F)	6.1x(Code G)
No load current [A]	50.0	49.4	53.3	56.3	49.4	53.3	56.3
Rated speed [RPM]	1185	985	985	985	980	980	985
Slip [%]	1.25	1.50	1.50	1.50	2.00	2.00	1.50
Rated torque [kgfm]	76.4	73.5	73.4	73.3	92.3	92.1	91.9
Locked rotor torque [%]	210	200	229	250	160	180	200
Breakdown torque [%]	229	229	250	280	180	200	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	34s (cold) 19s (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%	95.0	94.8	94.7	94.7	95.0	95.0
	75%	95.4	94.9	94.9	95.1	94.5	94.5
	100%	95.0	94.6	94.4	94.8	93.6	93.6
Power Factor	25%						
	50%	0.70	0.68	0.65	0.62	0.76	0.73
	75%	0.79	0.79	0.77	0.75	0.82	0.81
	100%	0.83	0.84	0.83	0.81	0.85	0.84

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

Losses (%)	P1 (0,9;1,0)	5.7	6.2	6.4	5.9	7.4	7.4	6.8
	P2 (0,5;1,0)	4.4	4.9	5.1	4.6	6.1	6.1	5.5
	P3 (0,25;1,0)	3.9	4.4	4.6	4.1	5.5	5.5	4.9
	P4 (0,9;0,5)	3.2	3.4	3.5	3.3	4.0	4.0	3.7
	P5 (0,5;0,5)	2.1	2.3	2.4	2.2	2.7	2.7	2.5
	P6 (0,5;0,25)	1.6	1.7	1.7	1.6	2.0	2.0	1.8
	P7 (0,25;0,25)	1.0	1.1	1.1	1.0	1.3	1.3	1.2

Bearing type	: Drive end 6319 C3 Non drive end 6316 C3	Foundation loads Max. traction : 1772 kgf Max. compression : 1772 kgf
Sealing	: Taconite Labyrinth Labyrinth	
Lubrication interval	: 13000 h 16000 h	
Lubricant amount	: 45 g 34 g	
Lubricant type	: Mobil Polyrex EM	

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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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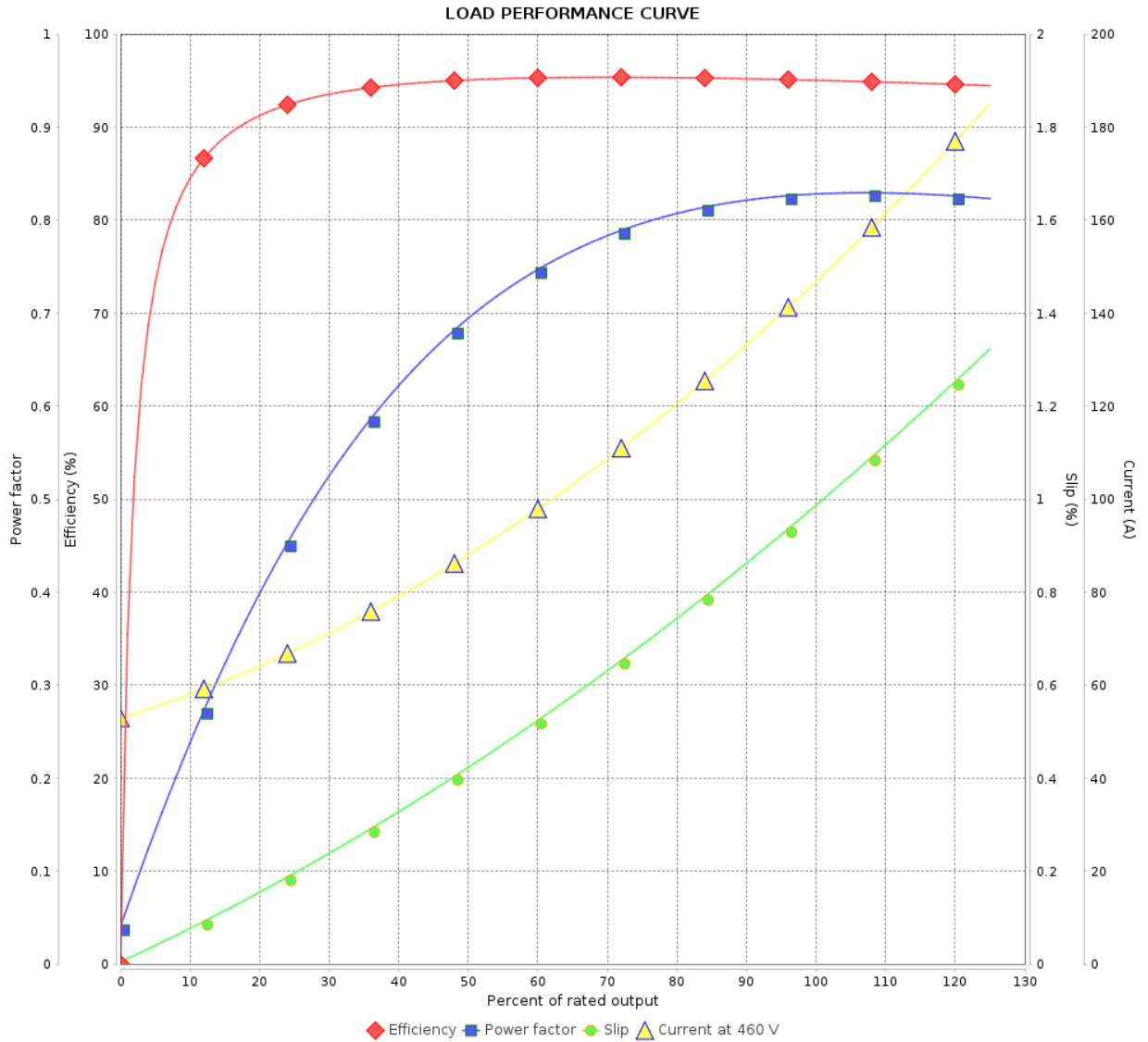
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency
Three-Phase

Product code : 11944760



Performance : 460 V 60 Hz 6P

Rated current : 143 A
 LRC : 6.3
 Rated torque : 76.4 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 229 %
 Rated speed : 1185 rpm

Moment of inertia (J) : 4.37 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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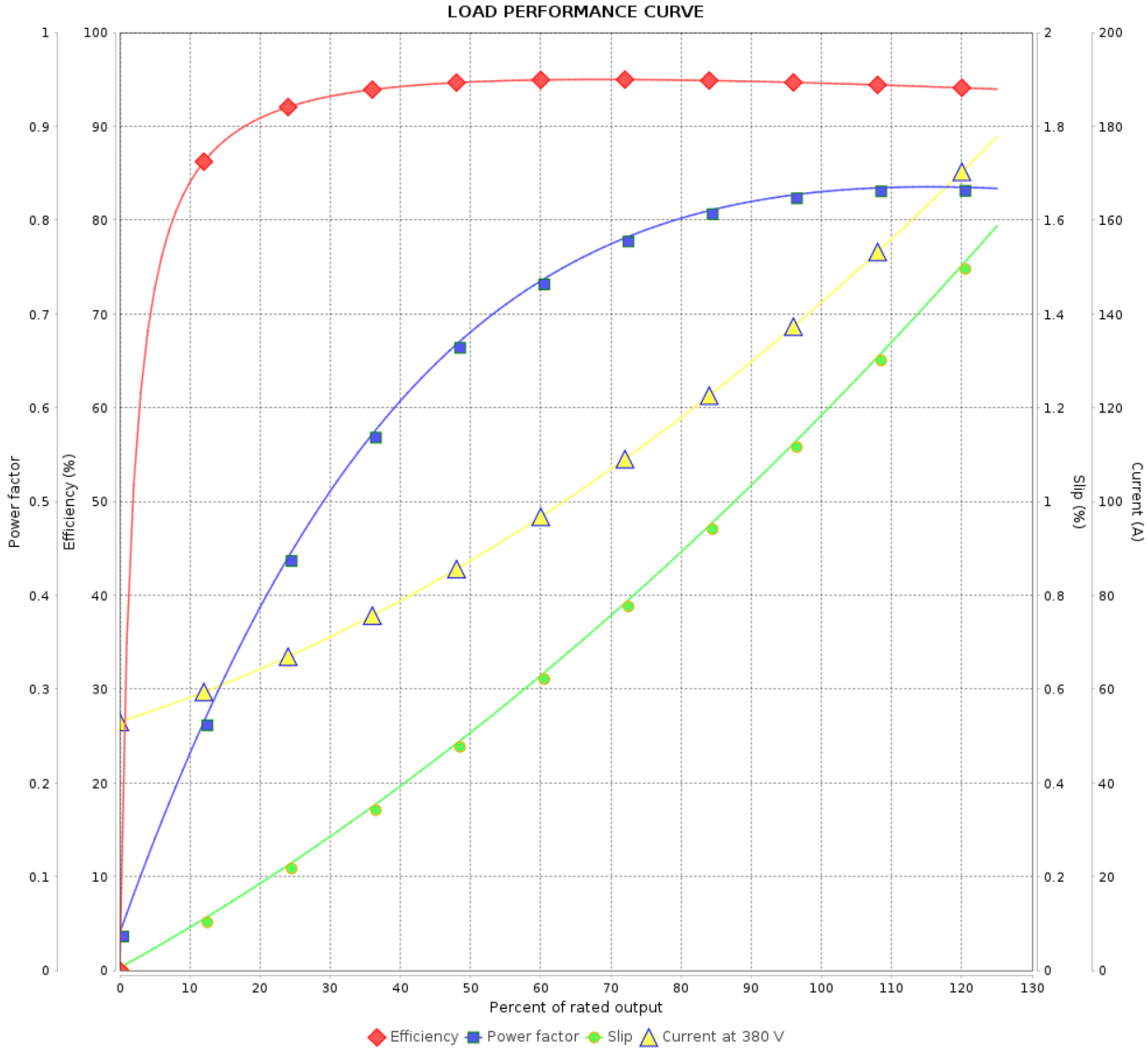
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11944760



Performance : 380 V 50 Hz 6P IE3

Rated current : 143 A	Moment of inertia (J) : 4.37 kgm ²
LRC : 6.3	Duty cycle : Cont.(S1)
Rated torque : 73.5 kgfm	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.00
Breakdown torque : 229 %	Temperature rise : 80 K
Rated speed : 985 rpm	Design : B

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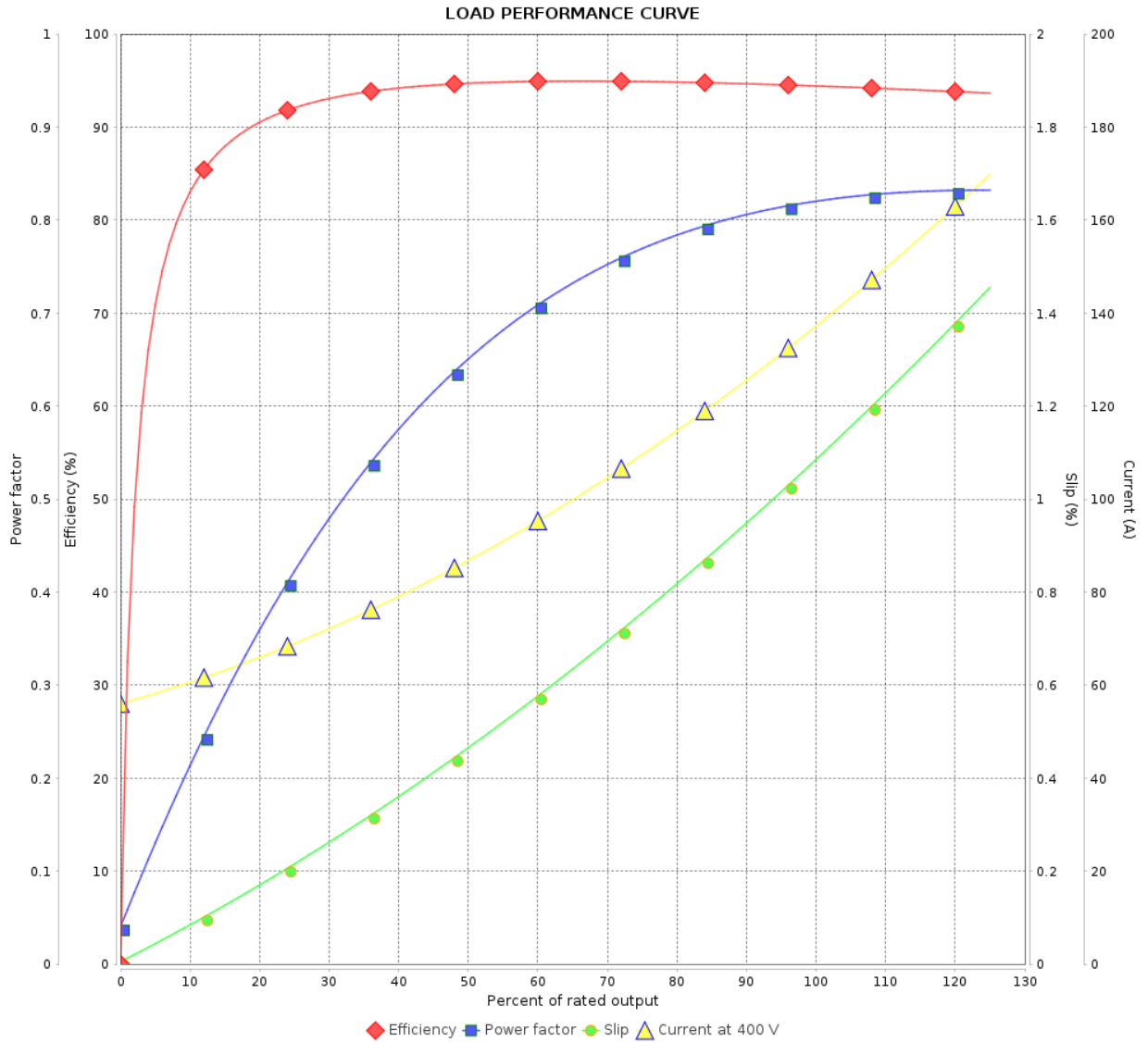
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11944760



Performance : 400 V 50 Hz 6P IE2

Rated current	: 138 A	Moment of inertia (J)	: 4.37 kgm ²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 73.4 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

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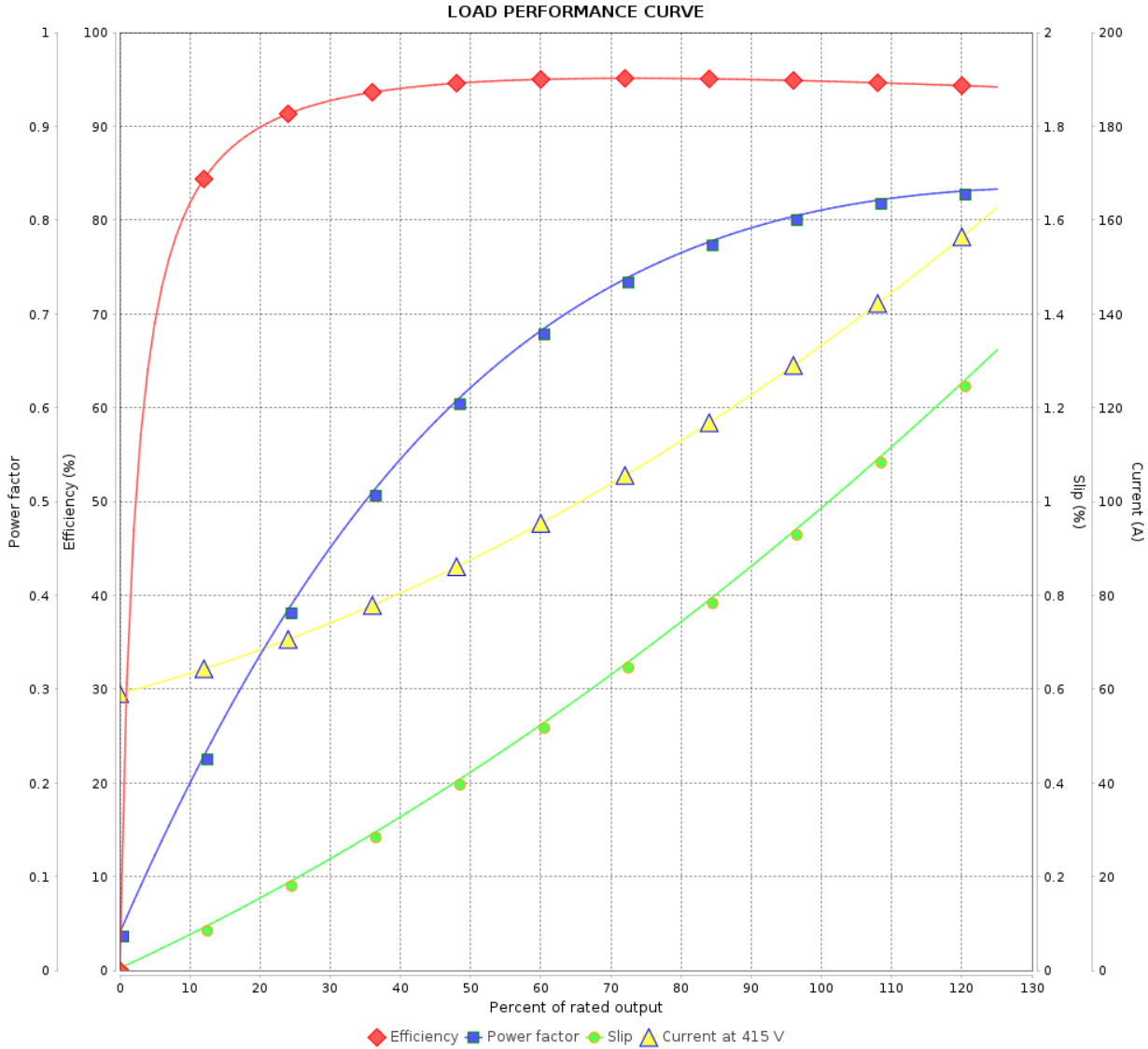
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11944760



Performance : 415 V 50 Hz 6P IE3

Rated current	: 136 A	Moment of inertia (J)	: 4.37 kgm ²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 73.3 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

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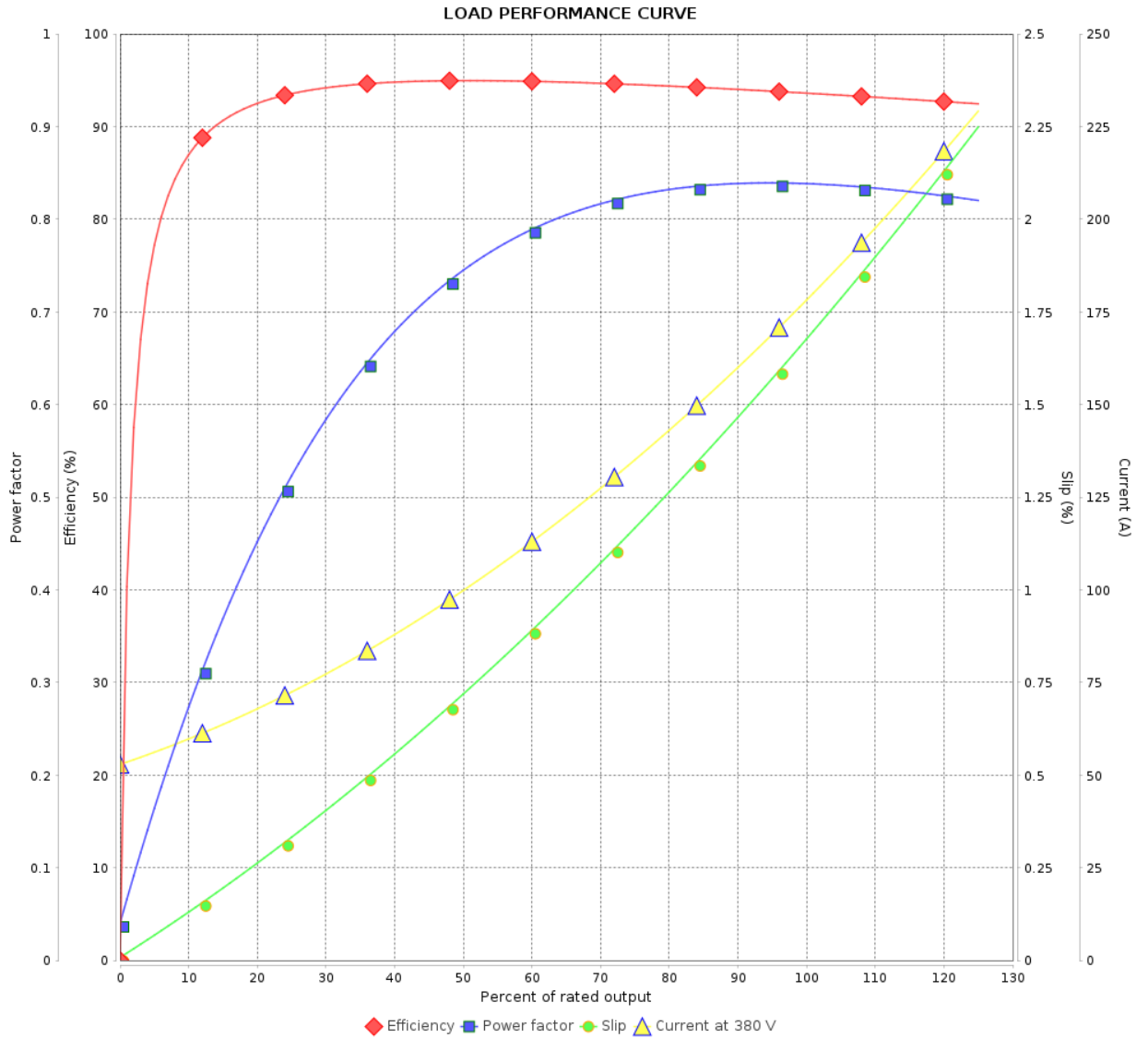
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11944760



Performance : 380 V 50 Hz 6P IE1

Rated current	: 172 A	Moment of inertia (J)	: 4.37 kgm ²
LRC	: 5.0	Duty cycle	: Cont.(S1)
Rated torque	: 92.3 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 180 %	Temperature rise	: 105 K
Rated speed	: 980 rpm	Design	: B

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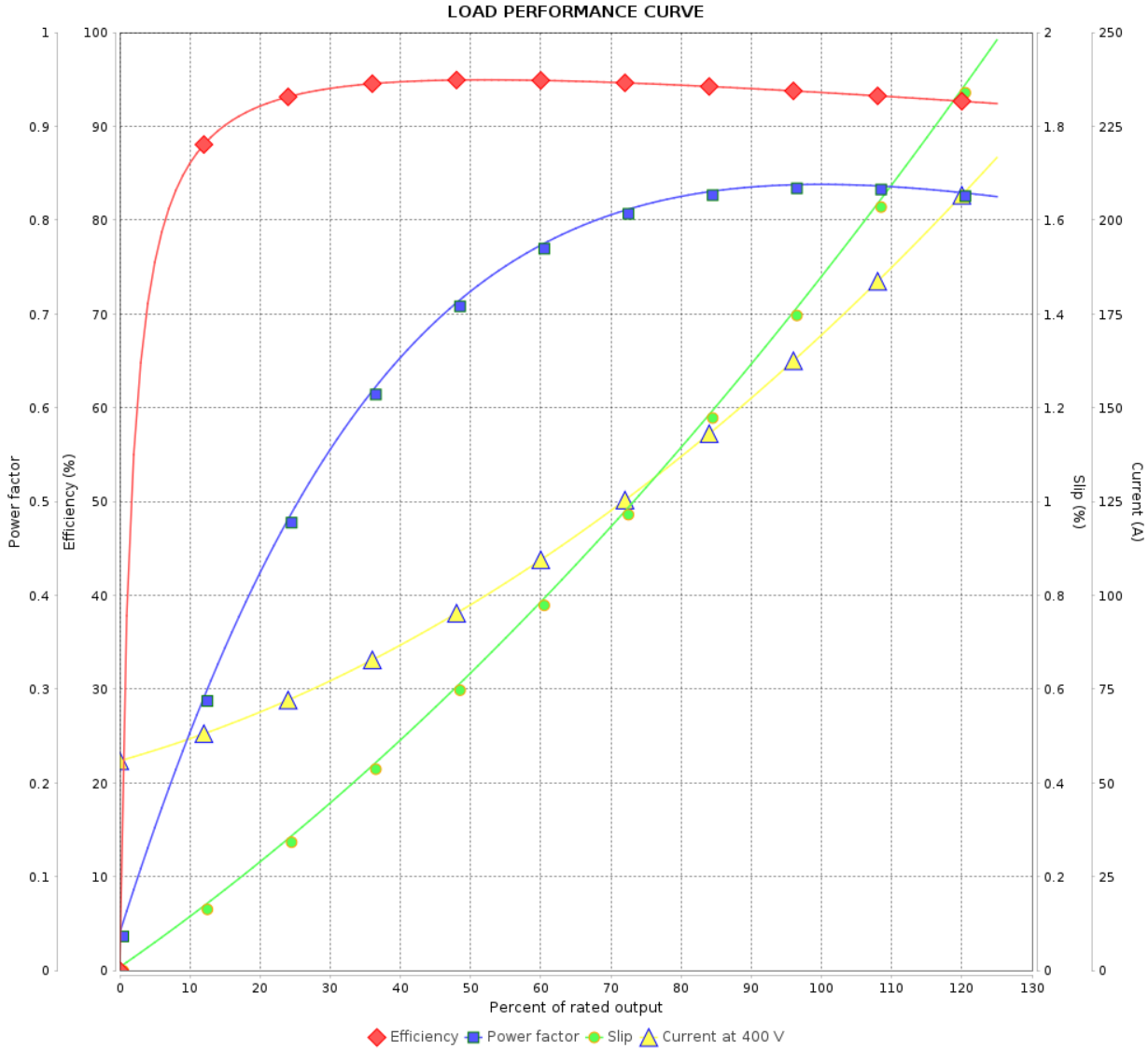
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Performance : 400 V 50 Hz 6P IE1

Rated current	: 165 A	Moment of inertia (J)	: 4.37 kgm ²
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 92.1 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 980 rpm	Design	: B

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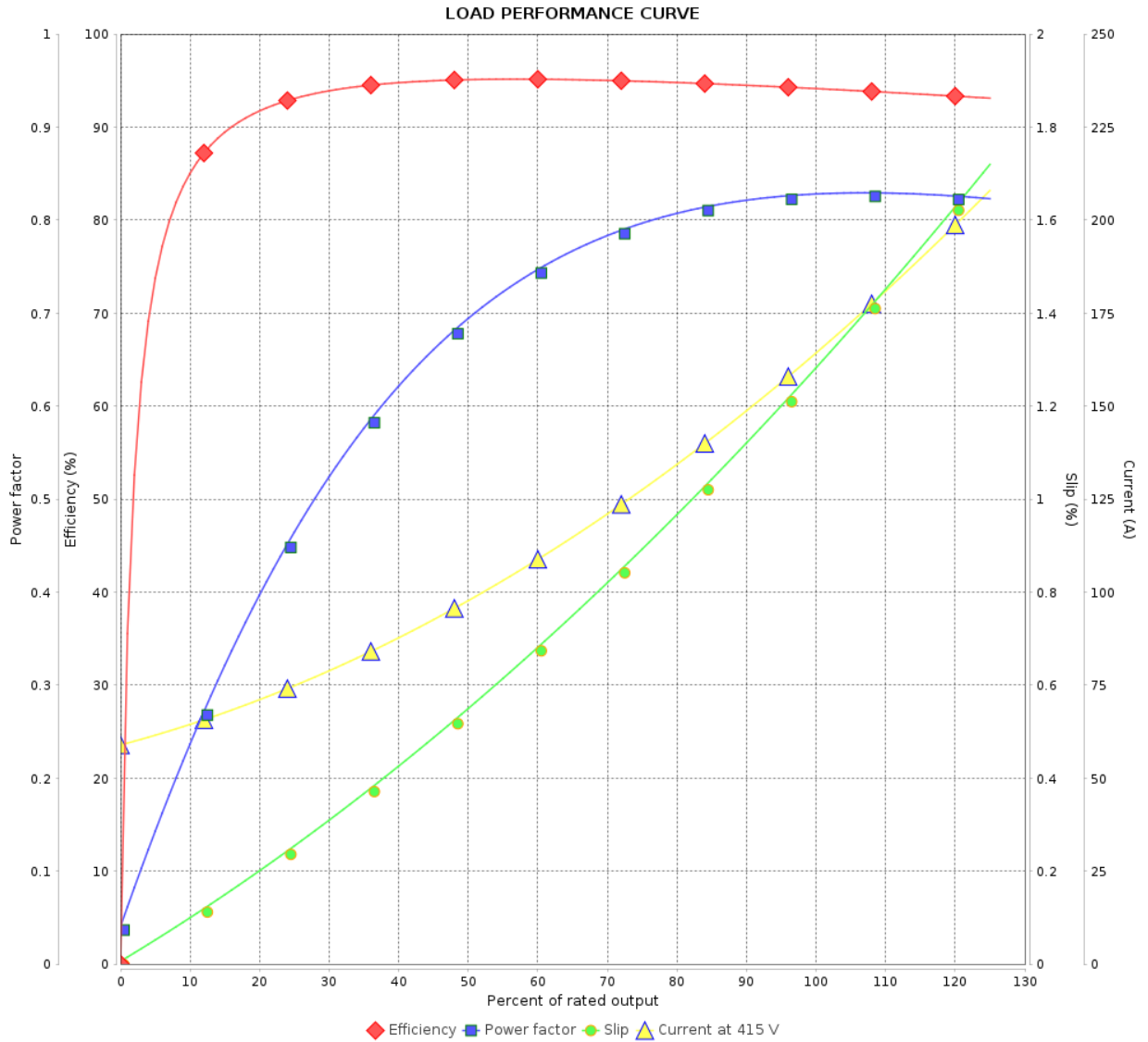
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11944760



Performance : 415 V 50 Hz 6P IE2

Rated current : 160 A	Moment of inertia (J) : 4.37 kgm ²
LRC : 6.1	Duty cycle : Cont.(S1)
Rated torque : 91.9 kgfm	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.00
Breakdown torque : 220 %	Temperature rise : 105 K
Rated speed : 985 rpm	Design : B

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