

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11943199

Frame	: 364/5T	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	: 408 kg
Protection degree	: IP55	Moment of inertia (J)	: 1.36 kgm ²
Design	: B		

Output [HP]	50	40	40	40	50	50	50
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]	57.4	57.7	55.5	53.5	71.3	67.2	65.5
L. R. Amperes [A]	367	358	377	396	349	370	400
LRC [A]	6.4x(Code G)	6.2x(Code G)	6.8x(Code H)	7.4x(Code J)	4.9x(Code E)	5.5x(Code F)	6.1x(Code G)
No load current [A]	20.0	20.0	21.5	22.5	20.5	21.5	22.5
Rated speed [RPM]	1183	983	985	985	975	979	980
Slip [%]	1.42	1.70	1.50	1.50	2.50	2.10	2.00
Rated torque [kgfm]	30.7	29.5	29.5	29.5	37.2	37.1	37.0
Locked rotor torque [%]	200	200	229	250	160	180	200
Breakdown torque [%]	240	240	260	290	190	210	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	80 K	80 K
Locked rotor time	32s (cold) 18s (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	66.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%						
	50%	93.6	92.7	92.7	92.6	93.0	93.0
	75%	94.1	92.8	93.1	93.1	92.4	93.0
	100%	94.1	92.9	92.9	92.9	91.7	92.4
Power Factor	25%						
	50%	0.74	0.72	0.70	0.66	0.77	0.75
	75%	0.83	0.82	0.80	0.79	0.84	0.83
	100%	0.86	0.85	0.84	0.84	0.86	0.86

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

Losses (%)	P1 (0,9;1,0)	6.2	6.2	6.2	6.2	6.2	6.2
	P2 (0,5;1,0)	5.2	5.2	5.2	5.2	5.2	5.2
	P3 (0,25;1,0)	4.6	4.6	4.6	4.6	4.6	4.6
	P4 (0,9;0,5)	2.8	2.8	2.8	2.8	2.8	2.8
	P5 (0,5;0,5)	1.9	1.9	1.9	1.9	1.9	1.9
	P6 (0,5;0,25)	1.2	1.2	1.2	1.2	1.2	1.2
	P7 (0,25;0,25)	0.8	0.8	0.8	0.8	0.8	0.8

Bearing type	: Drive end 6314 C3 Non drive end 6314 C3	Foundation loads Max. traction : 753 kgf Max. compression : 1160 kgf
Sealing	: Taconite Labyrinth Labyrinth	
Lubrication interval	: 17000 h 17000 h	
Lubricant amount	: 27 g 27 g	
Lubricant type	: Mobil Polyrex EM	

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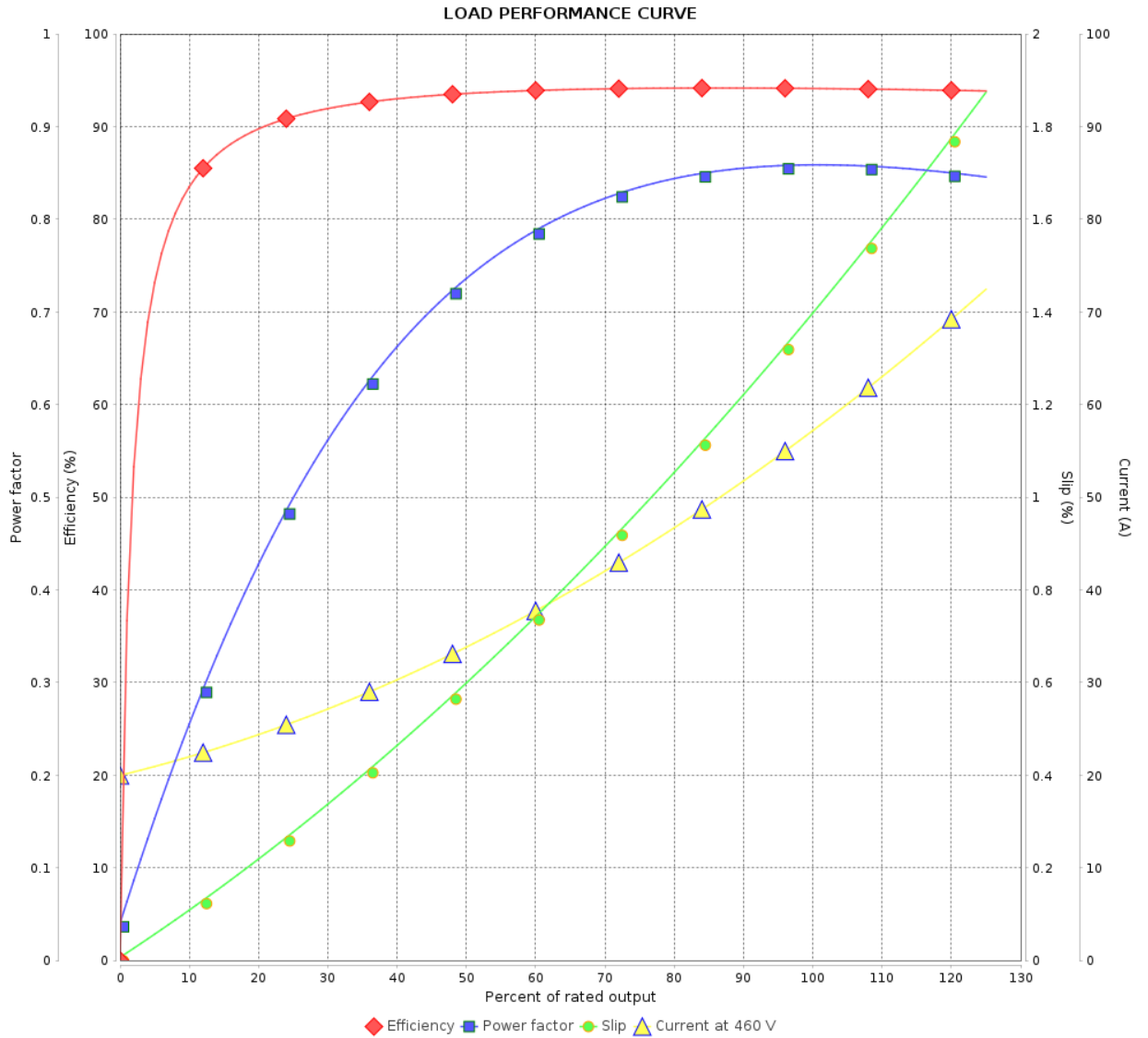
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11943199



Performance : 460 V 60 Hz 6P

Rated current : 57.4 A
 LRC : 6.4
 Rated torque : 30.7 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 1183 rpm

Moment of inertia (J) : 1.36 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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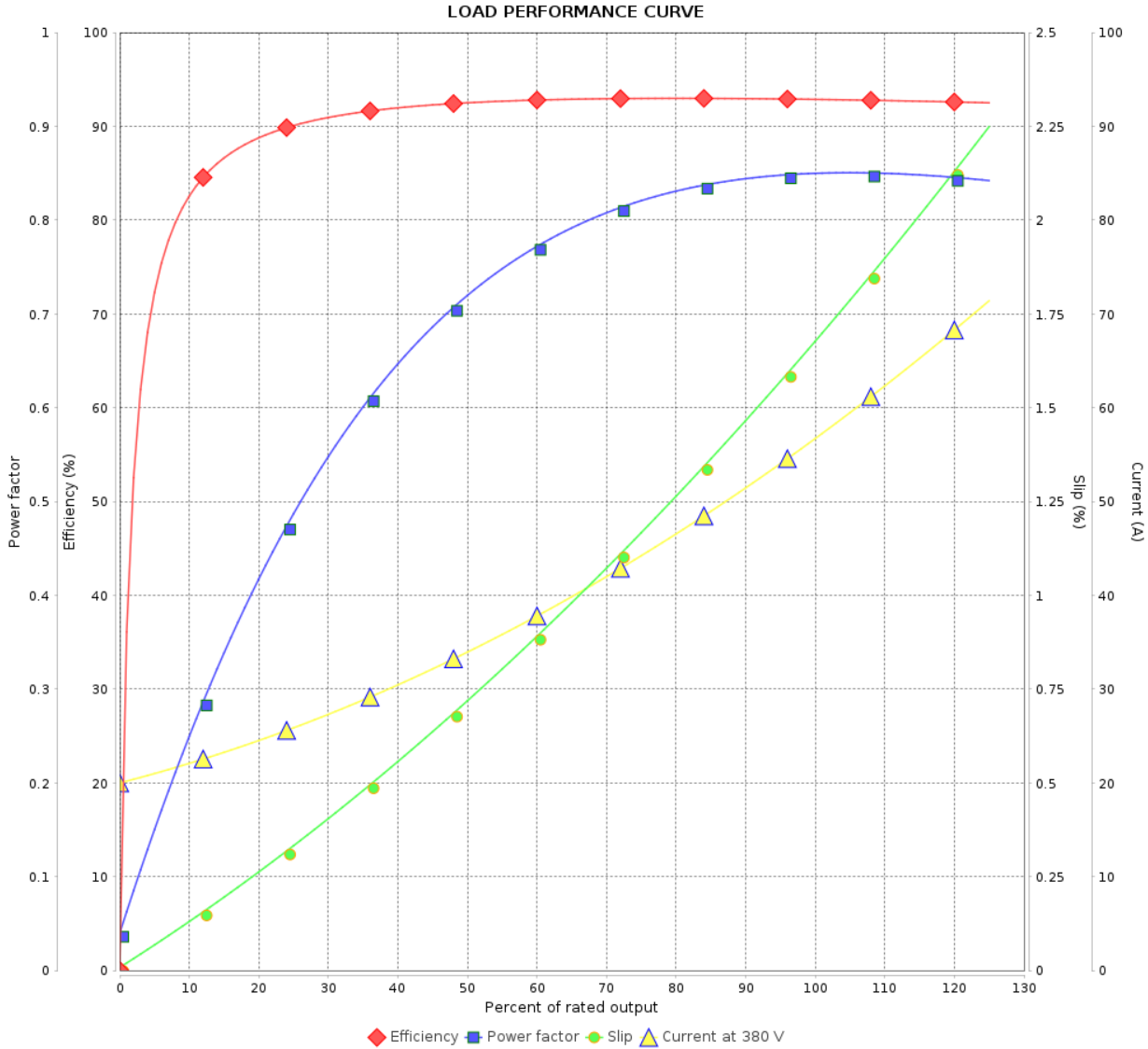
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11943199



Performance : 380 V 50 Hz 6P IE3

Rated current	: 57.7 A	Moment of inertia (J)	: 1.36 kgm ²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 29.5 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 983 rpm	Design	: B

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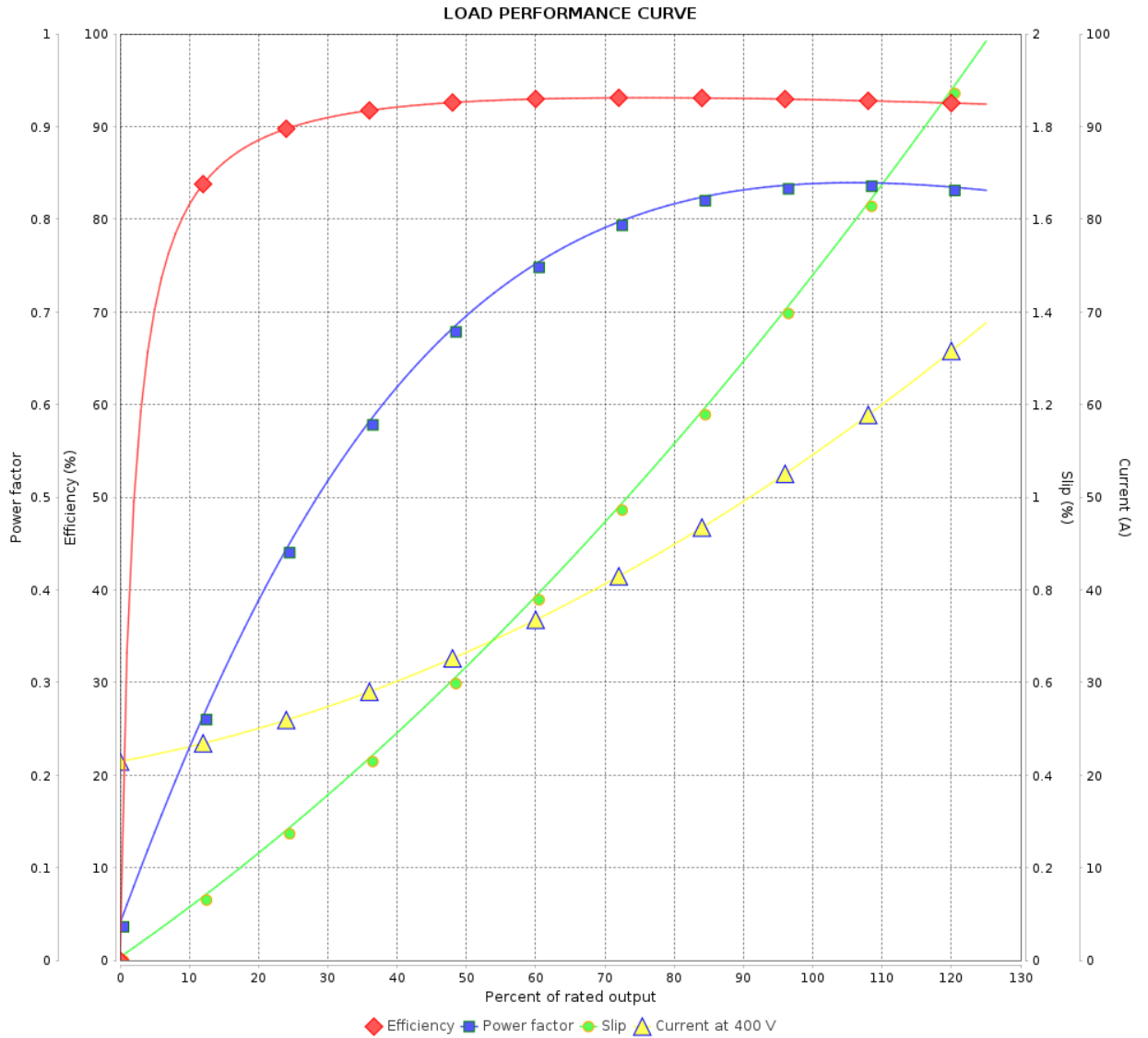
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11943199



Performance : 400 V 50 Hz 6P IE3

Rated current : 55.5 A
 LRC : 6.8
 Rated torque : 29.5 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 985 rpm

Moment of inertia (J) : 1.36 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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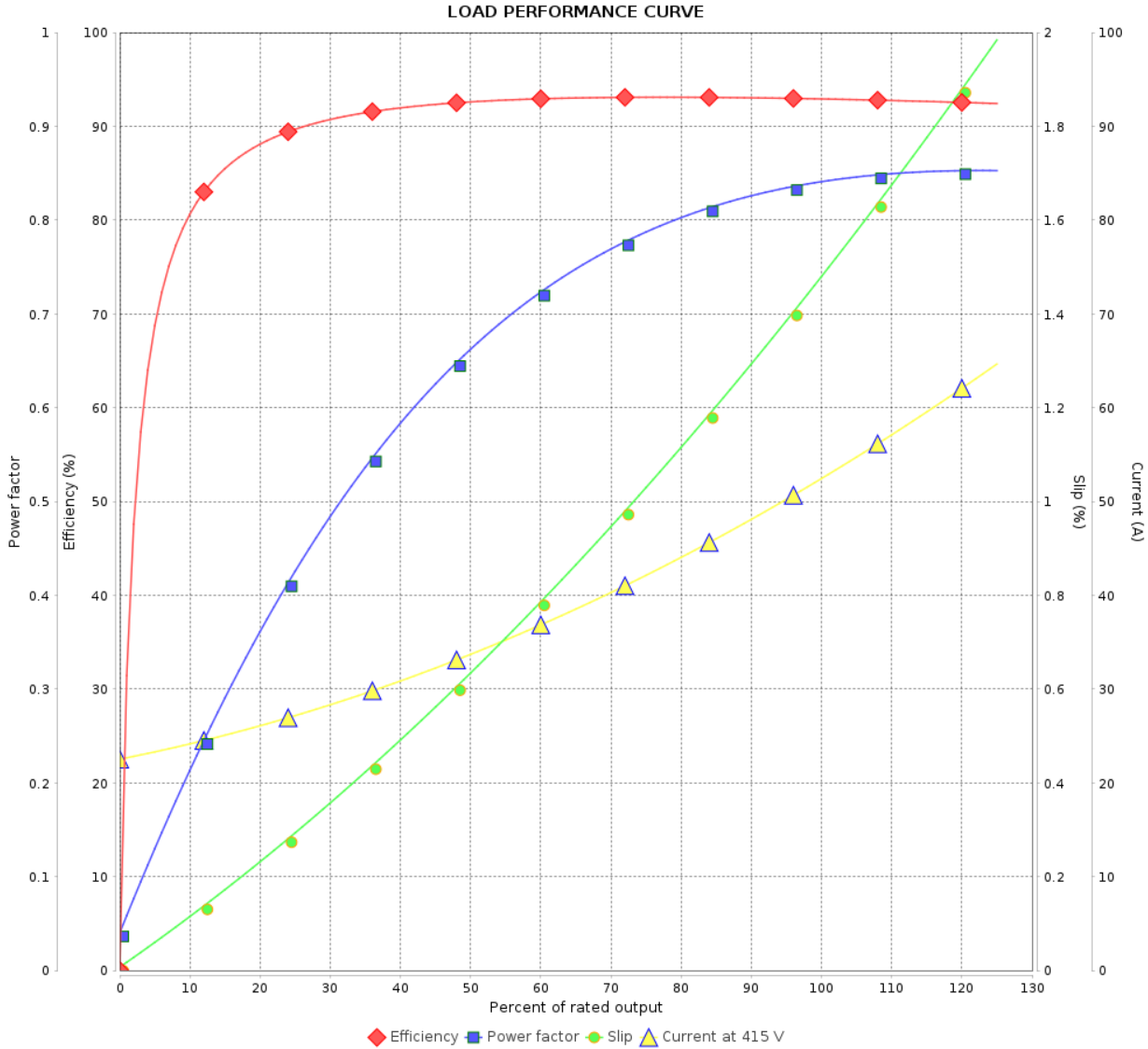
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11943199



Performance : 415 V 50 Hz 6P IE3

Rated current	: 53.5 A	Moment of inertia (J)	: 1.36 kgm ²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 29.5 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

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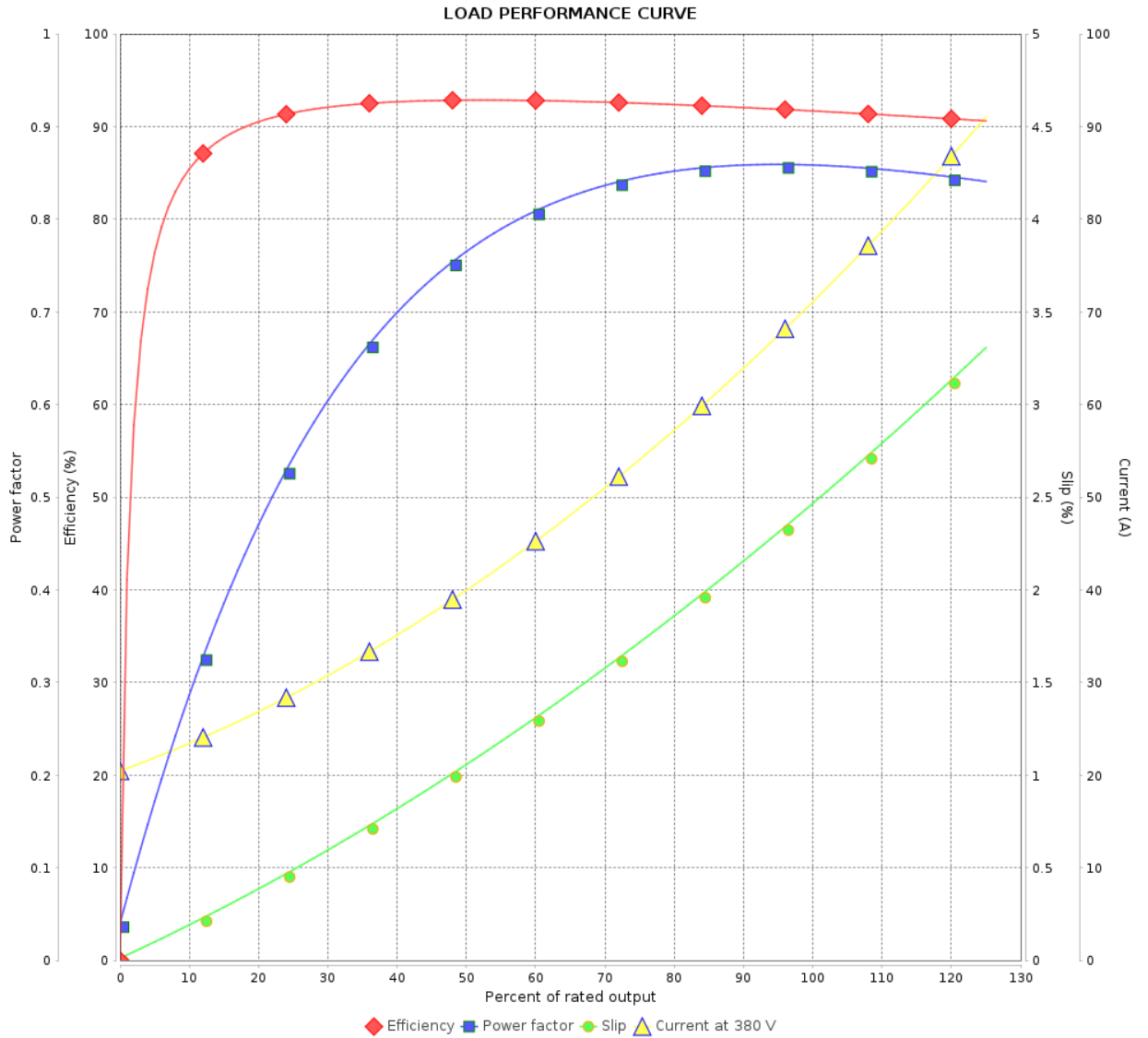
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11943199



Performance : 380 V 50 Hz 6P IE1

Rated current	: 71.3 A	Moment of inertia (J)	: 1.36 kgm ²
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 37.2 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 975 rpm	Design	: B

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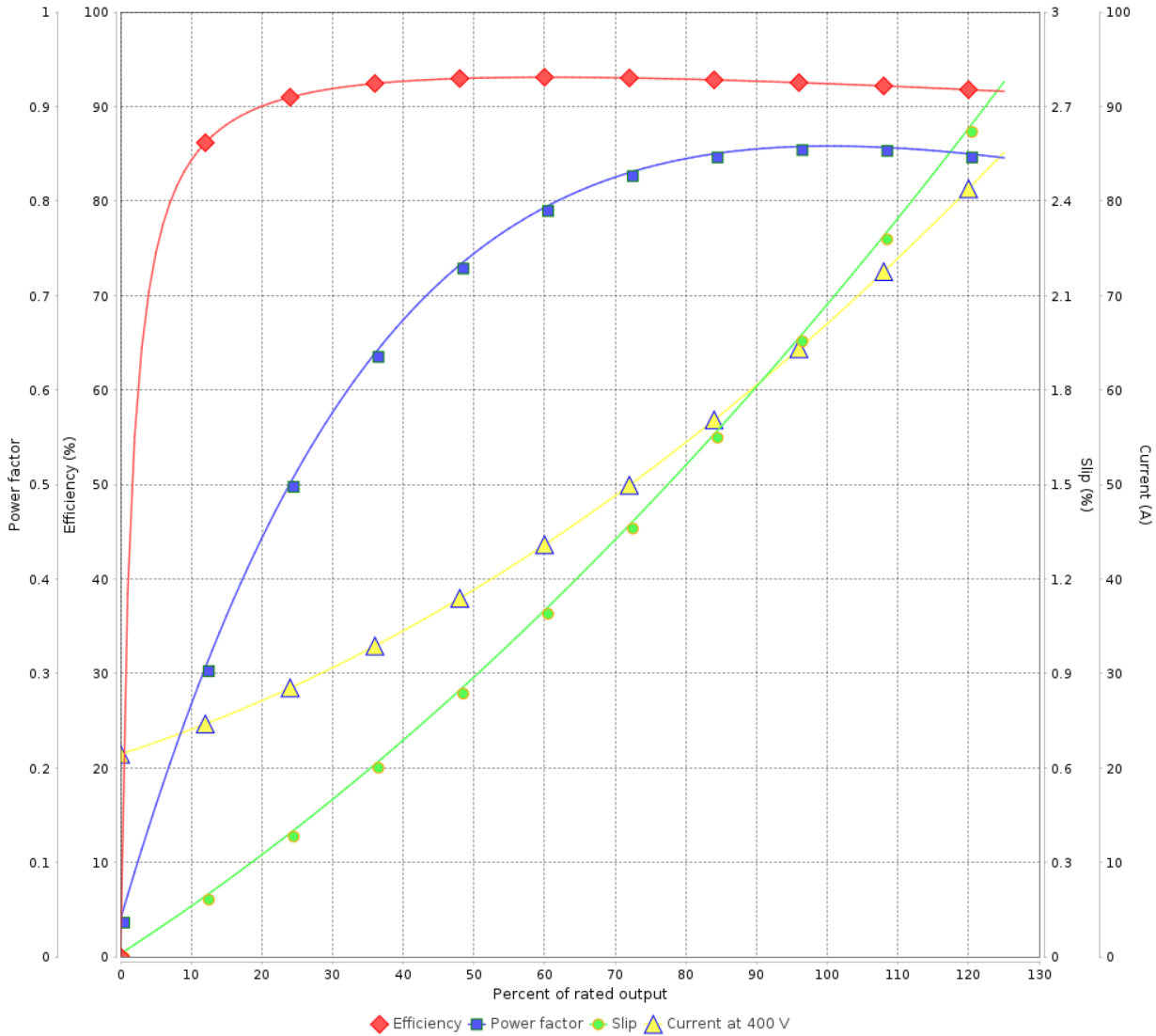
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Performance : 400 V 50 Hz 6P IE2

Rated current	: 67.2 A	Moment of inertia (J)	: 1.36 kgm ²
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 37.1 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 979 rpm	Design	: B

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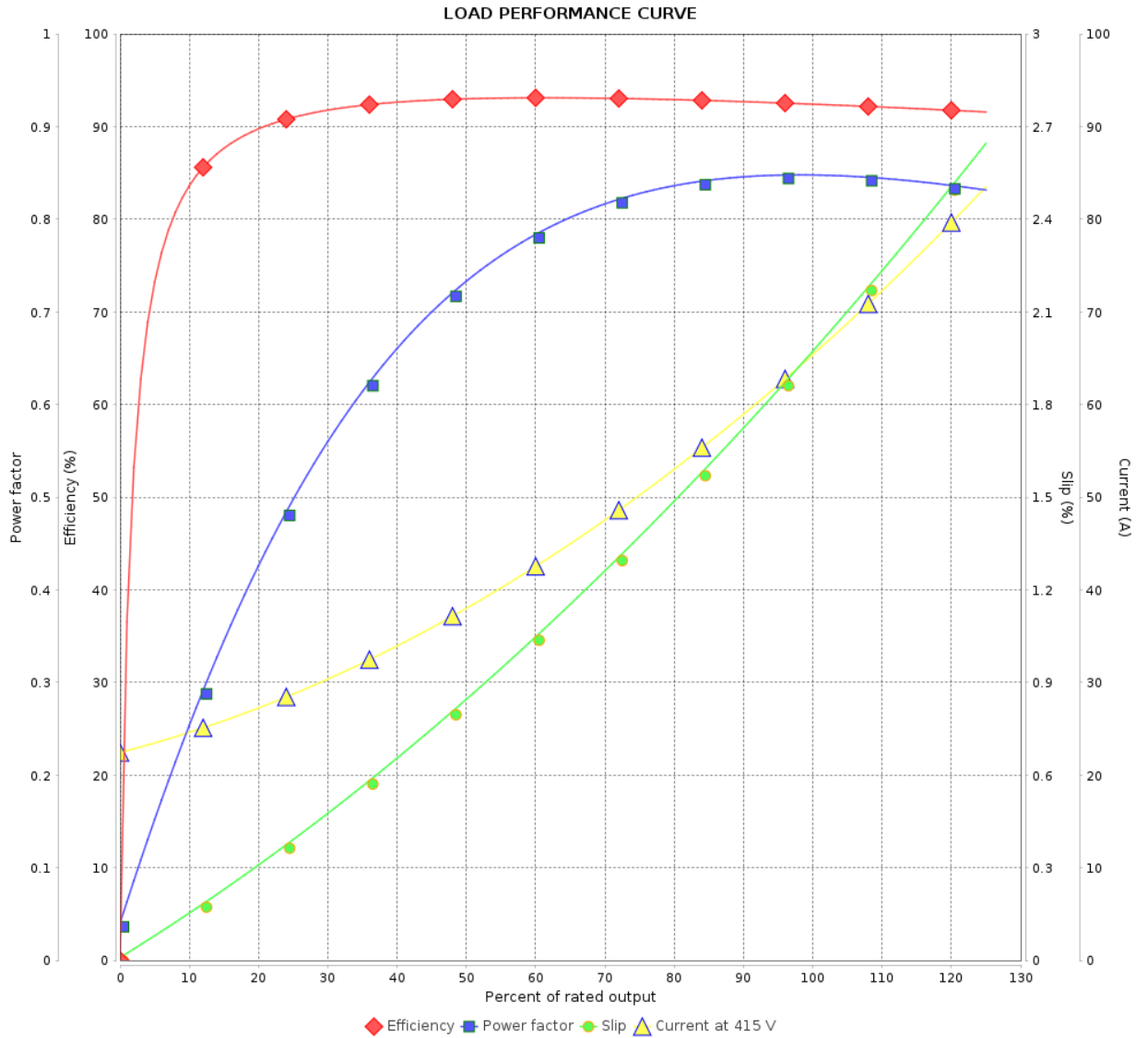
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11943199



Performance : 415 V 50 Hz 6P IE2

Rated current : 65.5 A
 LRC : 6.1
 Rated torque : 37.0 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 980 rpm

Moment of inertia (J) : 1.36 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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