DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase

Product code : 14732255

Frame	: 324/6JP	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 265 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.2422 kgm²
Design	: B		

Output [HP]		50	40	40	40	50	50	50
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		115/57.4	55.7	53.4	52.6	69.4	66.2	64.0
L. R. Amperes [A]		723/362	368	379	405	361	371	403
LRC [A]		6.3x(Code G)	6.6x(Code G)	7.1x(Code H)	7.7x(Code J)	5.2x(Code E)	5.6x(Code F)	6.3x(Code G)
No load current [A]		31.8/15.9	14.8	16.5	18.0	14.8	16.5	18.0
Rated speed [RPM]		3560	2960	2965	2969	2950	2955	2957
Slip [%]		1.11	1.33	1.17	1.03	1.67	1.50	1.43
Rated torque [kgfm]		10	9	9	9	12	12	12
Locked rotor torque [%]		240	240	260	280	190	210	220
Breakdown torque [%]		240	229	250	280	200	200	250
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)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	30s (cold) 17s (hot)	21s (cold) 12s (hot)	23s (cold) 13s (hot)	21s (cold) 12s (hot)
Noise level²		76.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)
Efficiency (%)	25%	0.000						
	50%	93.0	92.8	92.2	92.2	93.0	93.0	93.0
	75%	93.0	92.9	92.8	93.1	92.4	92.4	93.0
	100%	93.0	93.0	93.3	93.3	91.0	91.7	92.4
Power Factor	25%	0.00						
	50%	0.78	0.80	0.75	0.72	0.84	0.80	0.78
	75%	0.85	0.86	0.83	0.81	0.88	0.86	0.85
	100%	0.87	0.88	0.87	0.85	0.89	0.88	0.87

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

Losses (%)	P1 (0,9;1,0)	7.0	7.0	6.7	6.7	9.2	8.4	7.6
	P2 (0,5;1,0)	5.1	5.1	4.9	4.9	6.7	6.1	5.6
	P3 (0,25;1,0)	4.6	4.6	4.4	4.4	6.1	5.5	5.0
	P4 (0,9;0,5)	3.8	3.8	3.6	3.6	5.0	4.5	4.1
	P5 (0,5;0,5)	2.1	2.1	2.0	2.0	2.7	2.5	2.3
	P6 (0,5;0,25)	1.4	1.4	1.3	1.3	1.8	1.7	1.5
	P7 (0,25;0,25)	0.8	0.8	0.7	0.7	1.0	0.9	0.8

		Drive end	Non drive end
Bearing type	:	6312 C3	6212 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	12000 h	15000 h
Lubricant amount	:	21 g	13 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 266 kgf

Max. compression : 506 kgf

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes

This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +3dB(A).
(3) Approximate weight subject to changes after manufacturing process.
(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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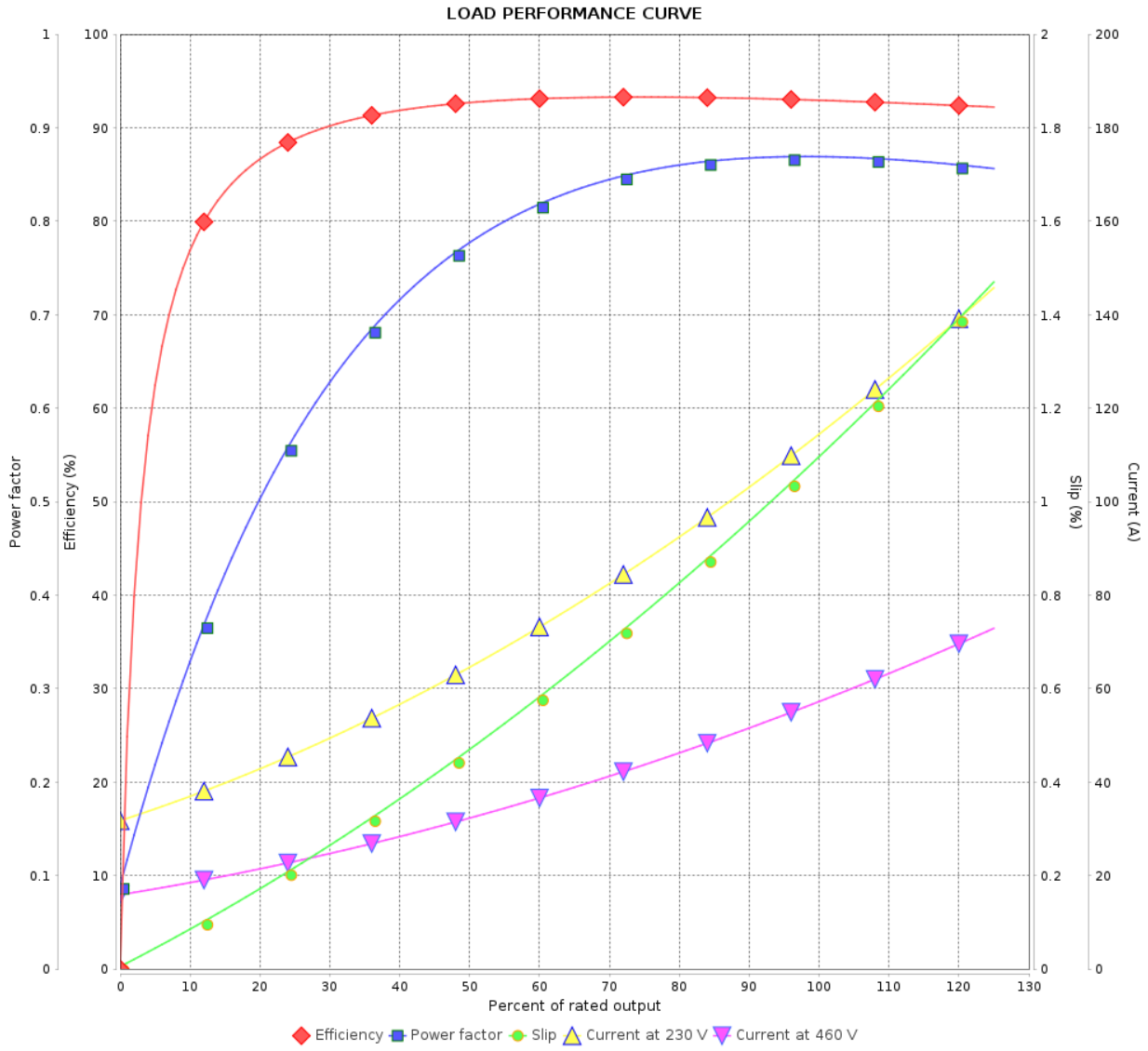
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	14732255



Performance	: 230/460 V 60 Hz 2P

Rated current	: 115/57.4 A	Moment of inertia (J)	: 0.2422 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 10 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: B

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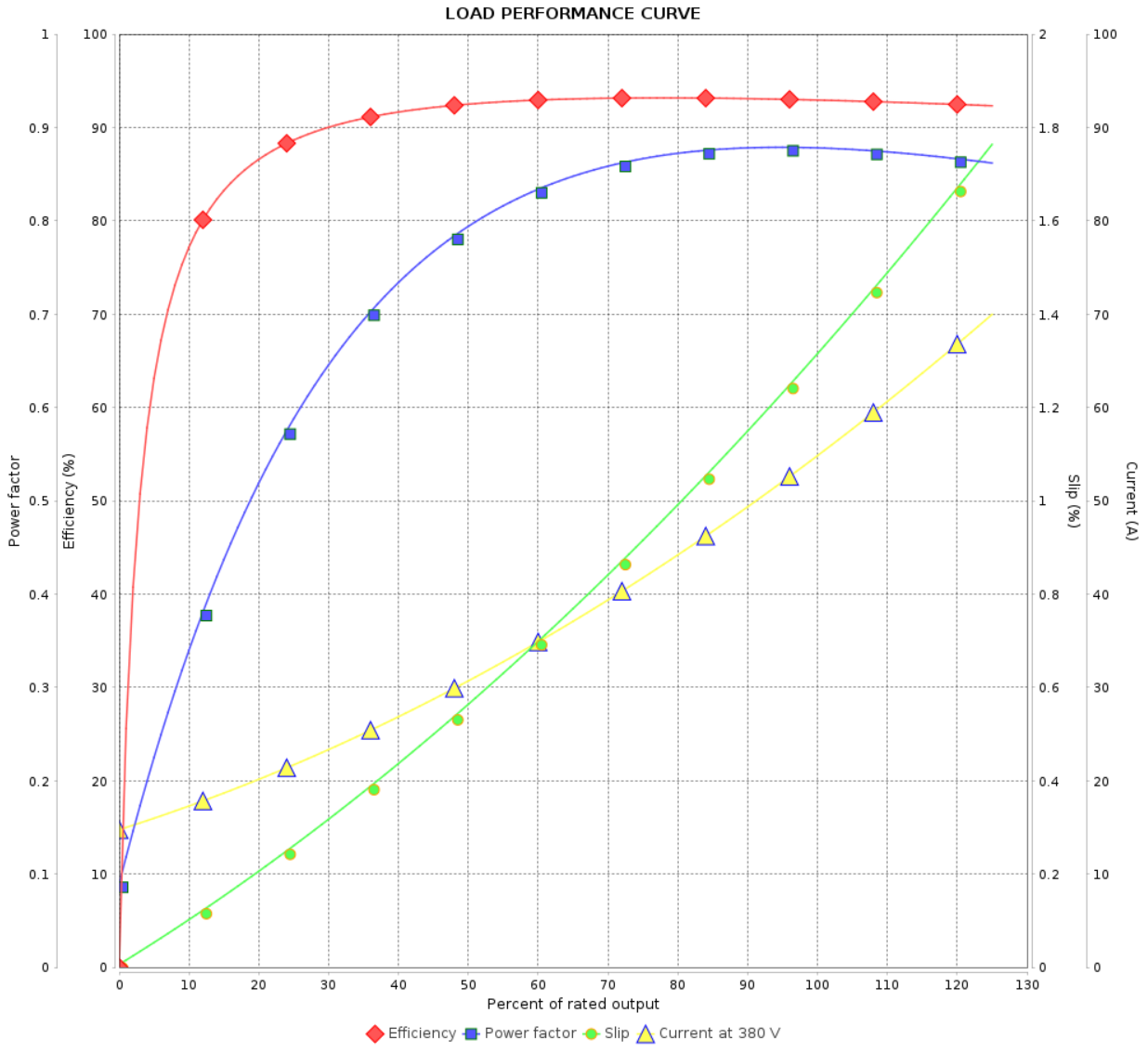
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	14732255



Performance	: 380 V 50 Hz 2P IE2

Rated current	: 55.7 A	Moment of inertia (J)	: 0.2422 kgm²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 9 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

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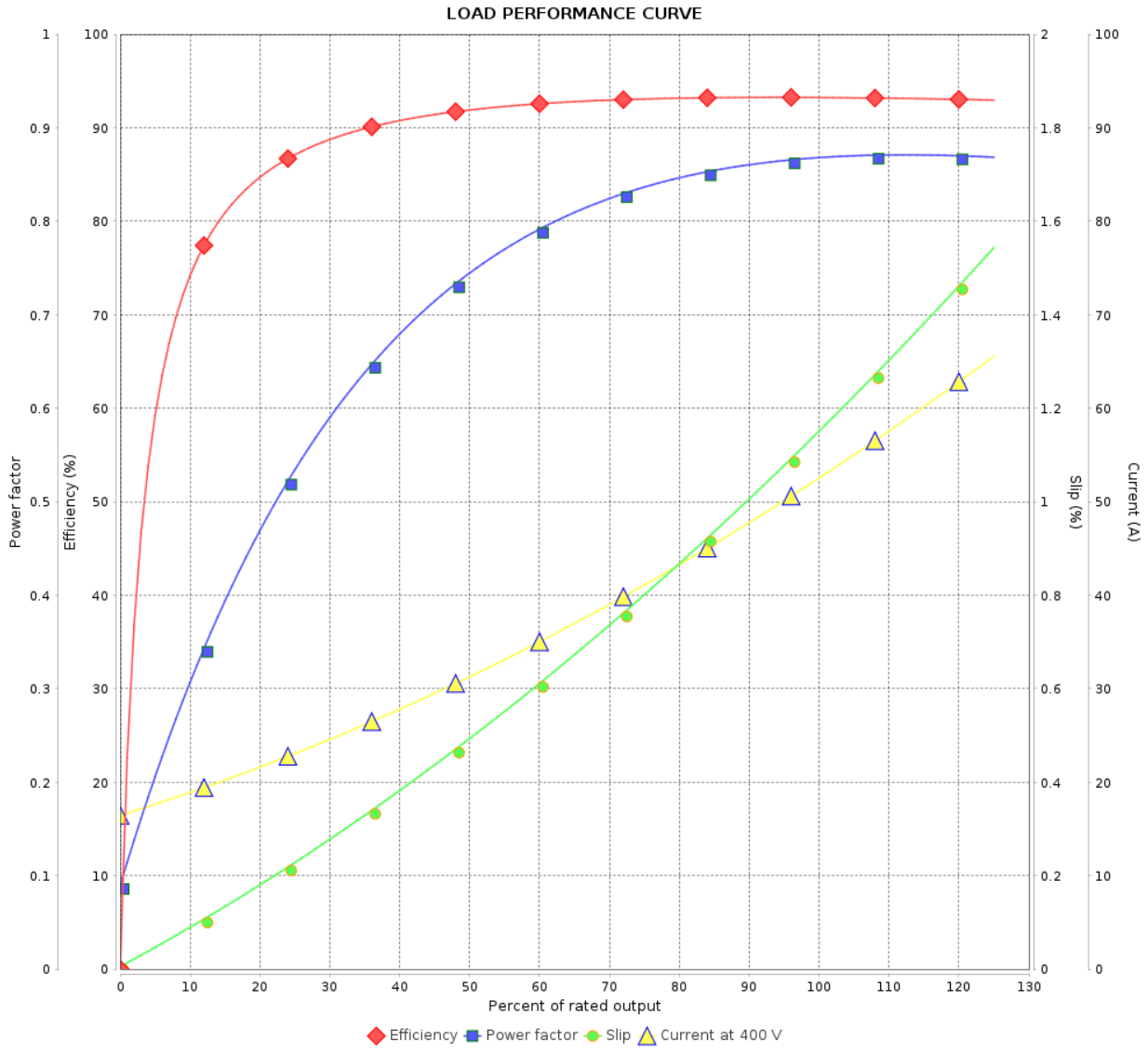
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	14732255



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 53.4 A	Moment of inertia (J)	: 0.2422 kgm²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 9 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

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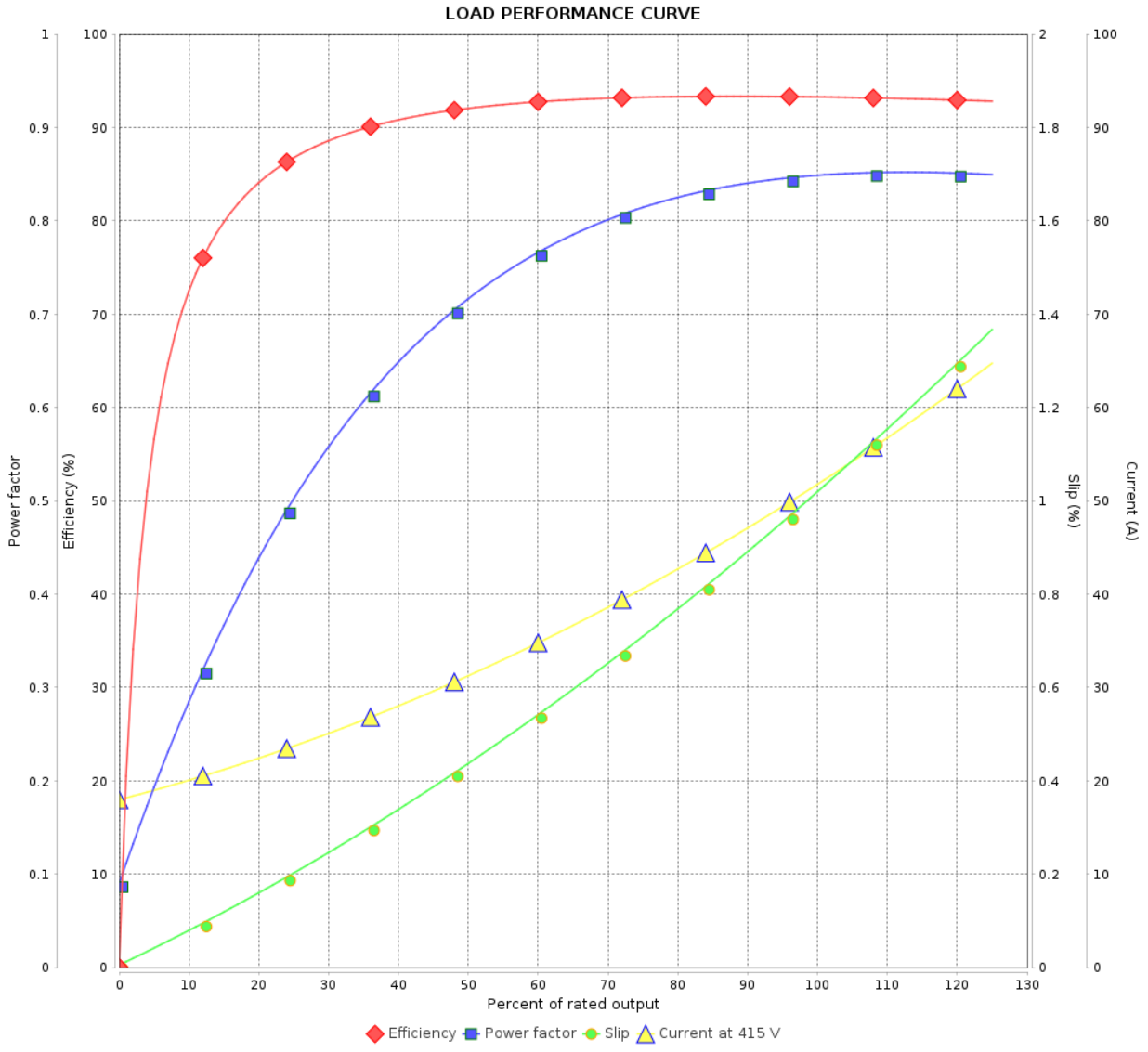
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	14732255



Performance	: 415 V 50 Hz 2P IE3

Rated current	: 52.6 A	Moment of inertia (J)	: 0.2422 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 9 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2969 rpm	Design	: B

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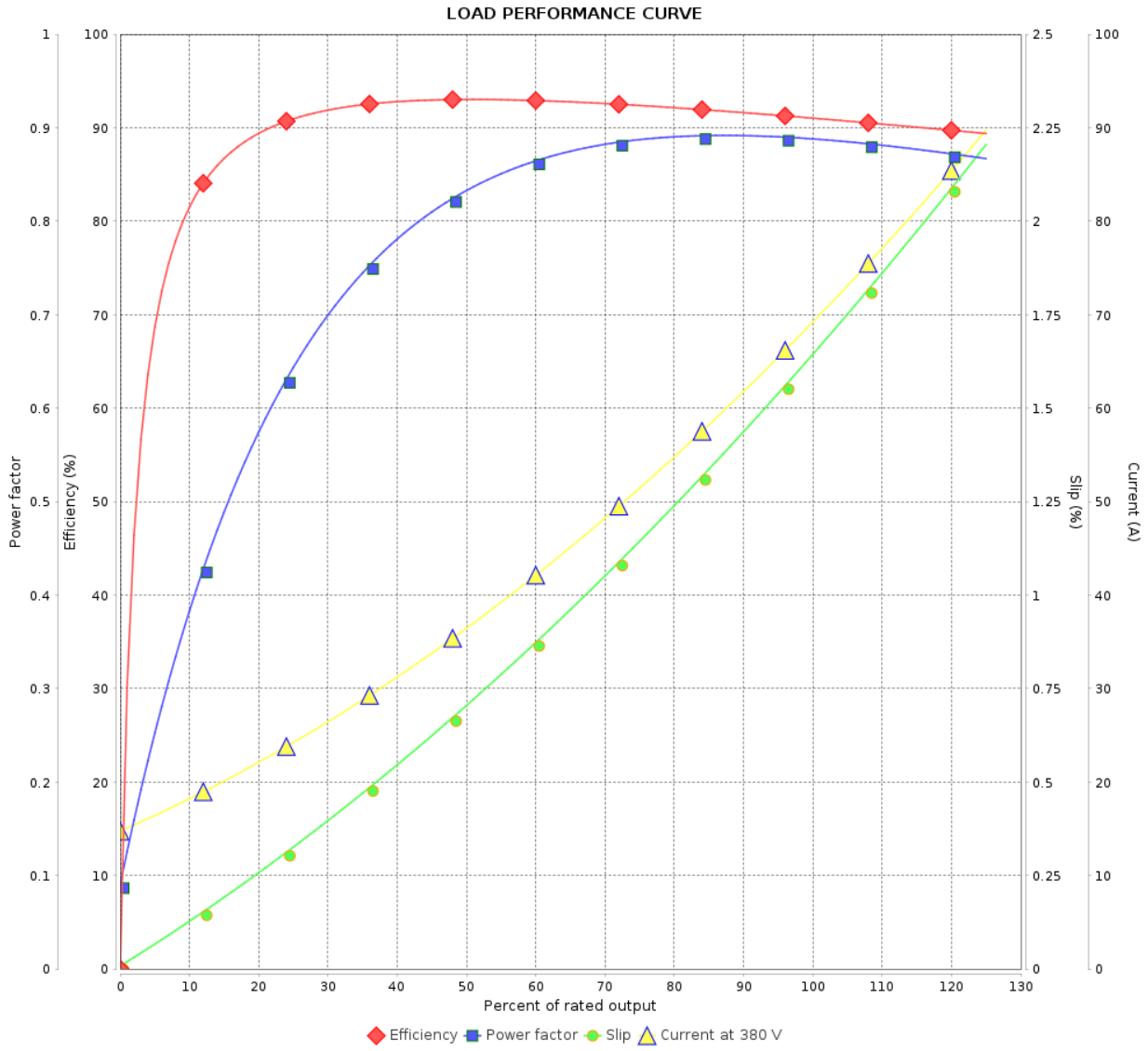
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	14732255



Performance	: 380 V 50 Hz 2P

Rated current	: 69.4 A	Moment of inertia (J)	: 0.2422 kgm²
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 12 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2950 rpm	Design	: B

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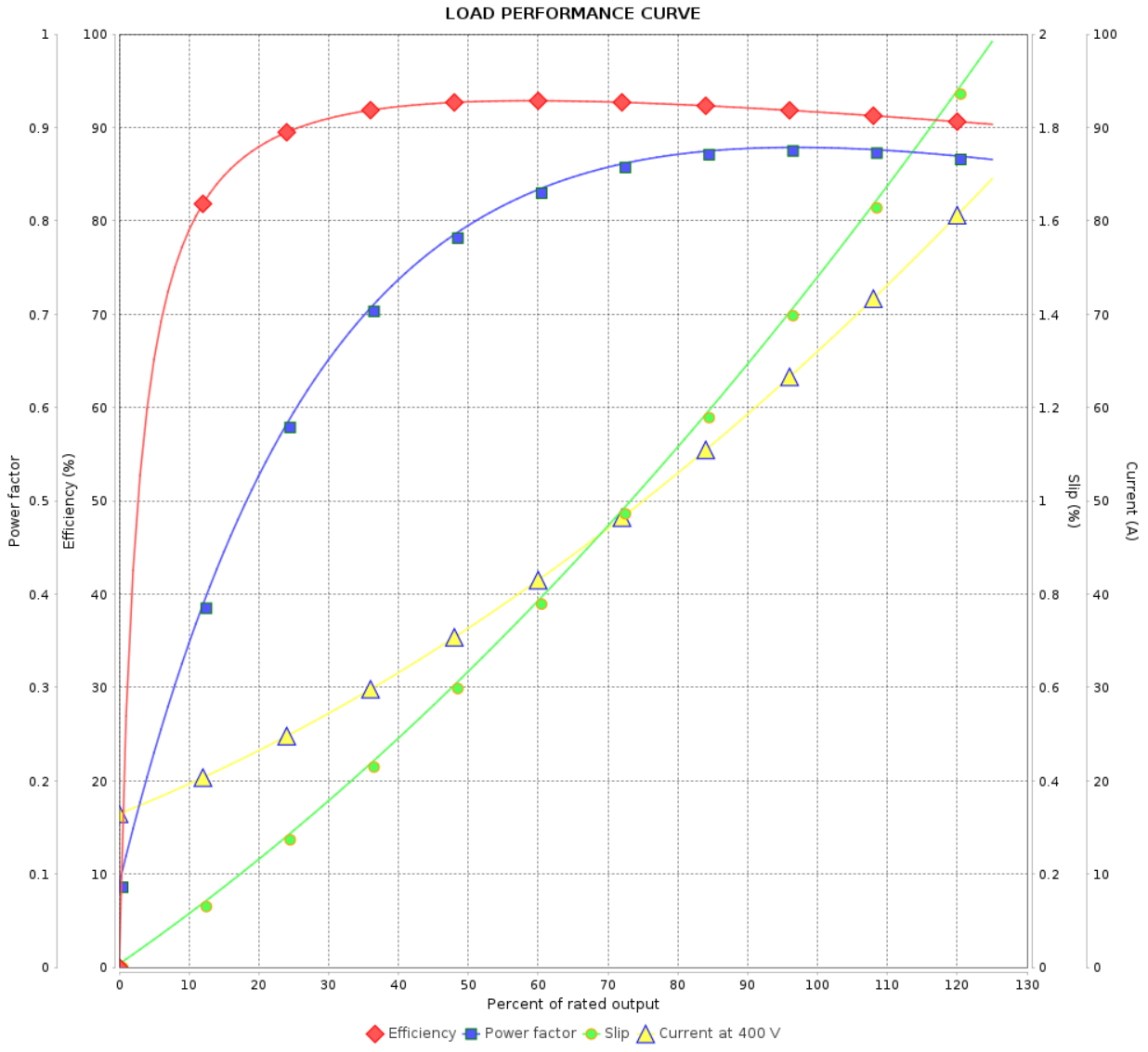
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	14732255



Performance	: 400 V 50 Hz 2P IE1		
Rated current	: 66.2 A	Moment of inertia (J)	: 0.2422 kgm²
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 12 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2955 rpm	Design	: B

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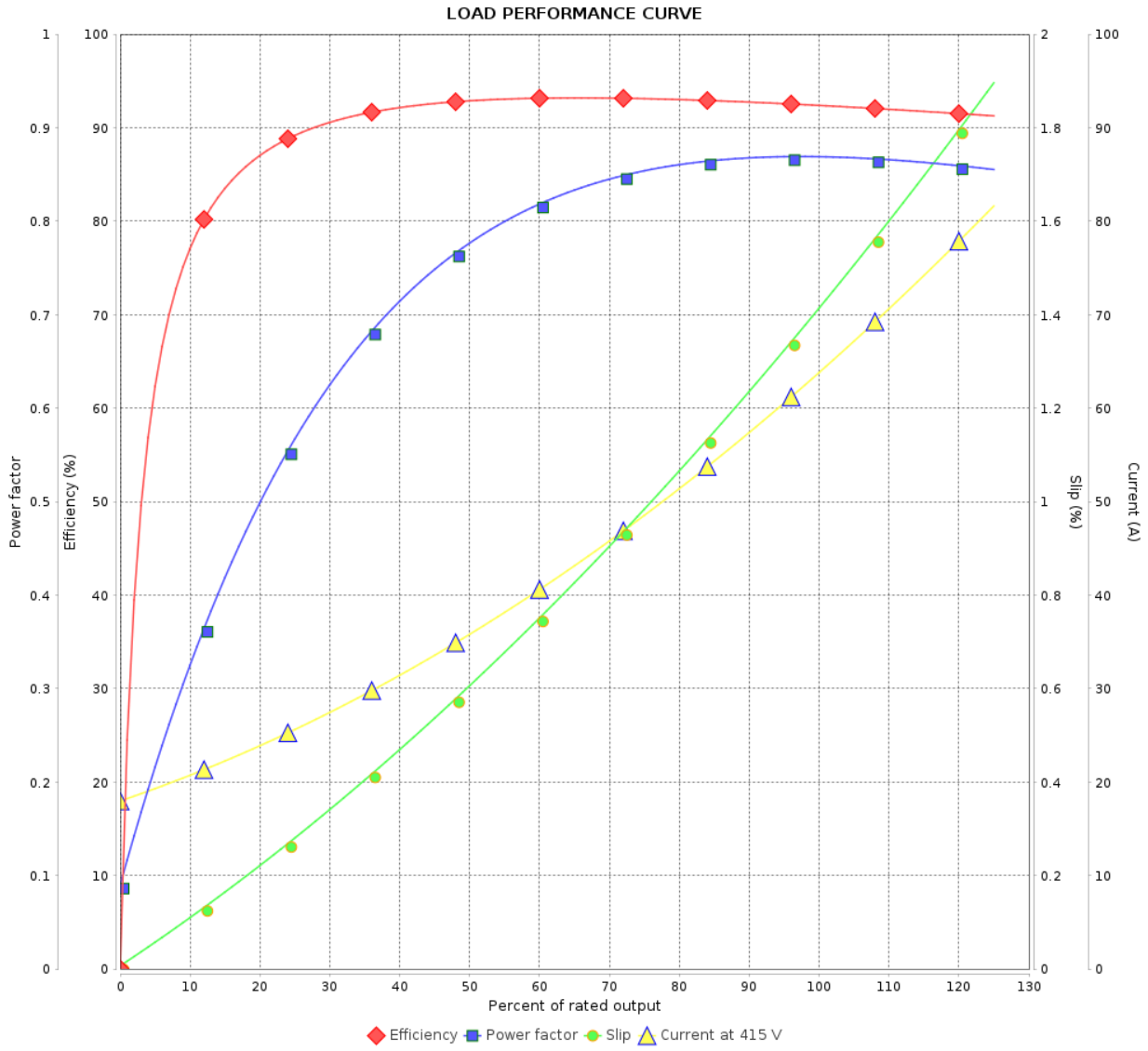
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	14732255



Performance	: 415 V 50 Hz 2P IE1

Rated current	: 64.0 A	Moment of inertia (J)	: 0.2422 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 12 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 2957 rpm	Design	: B

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