DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 12603094

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	: 223 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.3861 kgm²
Design	: B		

Output [HP]		40	30	30	30	40	40	40
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		94.2/47.1	42.8	41.5	41.1	57.4	54.1	52.8
L. R. Amperes [A]		574/287	291	307	316	287	303	317
LRC [A]		6.1x(Code G)	6.8x(Code H)	7.4x(Code J)	7.7x(Code J)	5.0x(Code E)	5.6x(Code F)	6.0x(Code G)
No load current [A]		34.6/17.3	16.8	18.0	19.0	16.8	18.0	19.0
Rated speed [RPM]		1775	1477	1480	1480	1460	1465	1470
Slip [%]		1.39	1.53	1.33	1.33	2.67	2.33	2.00
Rated torque [kgfm]		16	14	14	14	19	19	19
Locked rotor torque [%]		229	240	270	280	170	190	210
Breakdown torque [%]		240	260	290	310	200	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	105 K	105 K
Locked rotor time		36s (cold) 20s (hot)	25s (cold) 14s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	19s (cold) 11s (hot)	21s (cold) 12s (hot)	23s (cold) 13s (hot)
Noise level²		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%	0.000				0.000		
	50%	93.6	92.9	92.4	91.7	93.6	93.6	93.0
	75%	94.1	93.1	93.0	92.6	93.0	93.0	93.0
	100%	94.1	93.0	93.2	93.1	92.4	93.0	93.0
Power Factor	25%	0.00				0.00		
	50%	0.72	0.68	0.64	0.62	0.77	0.74	0.72
	75%	0.80	0.78	0.75	0.73	0.84	0.82	0.80
	100%	0.85	0.84	0.82	0.80	0.86	0.86	0.85

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

Losses (%)	P1 (0,9;1,0)	6.2	7.5	7.3	7.4	8.2	7.5	7.5
	P2 (0,5;1,0)	5.4	6.5	6.3	6.4	7.1	6.5	6.5
	P3 (0,25;1,0)	4.9	5.9	5.7	5.8	6.5	5.9	5.9
	P4 (0,9;0,5)	2.8	3.4	3.2	3.3	3.7	3.4	3.4
	P5 (0,5;0,5)	2.0	2.4	2.4	2.4	2.7	2.4	2.4
	P6 (0,5;0,25)	1.3	1.5	1.5	1.5	1.6	1.5	1.5
	P7 (0,25;0,25)	0.9	1.1	1.0	1.1	1.2	1.1	1.1

		Drive end	Non drive end
Bearing type	:	6312 C3	6212 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	13 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 447 kgf

Max. compression : 696 kgf

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes
USABLE @208V 104A SF 1.15 SFA 120A

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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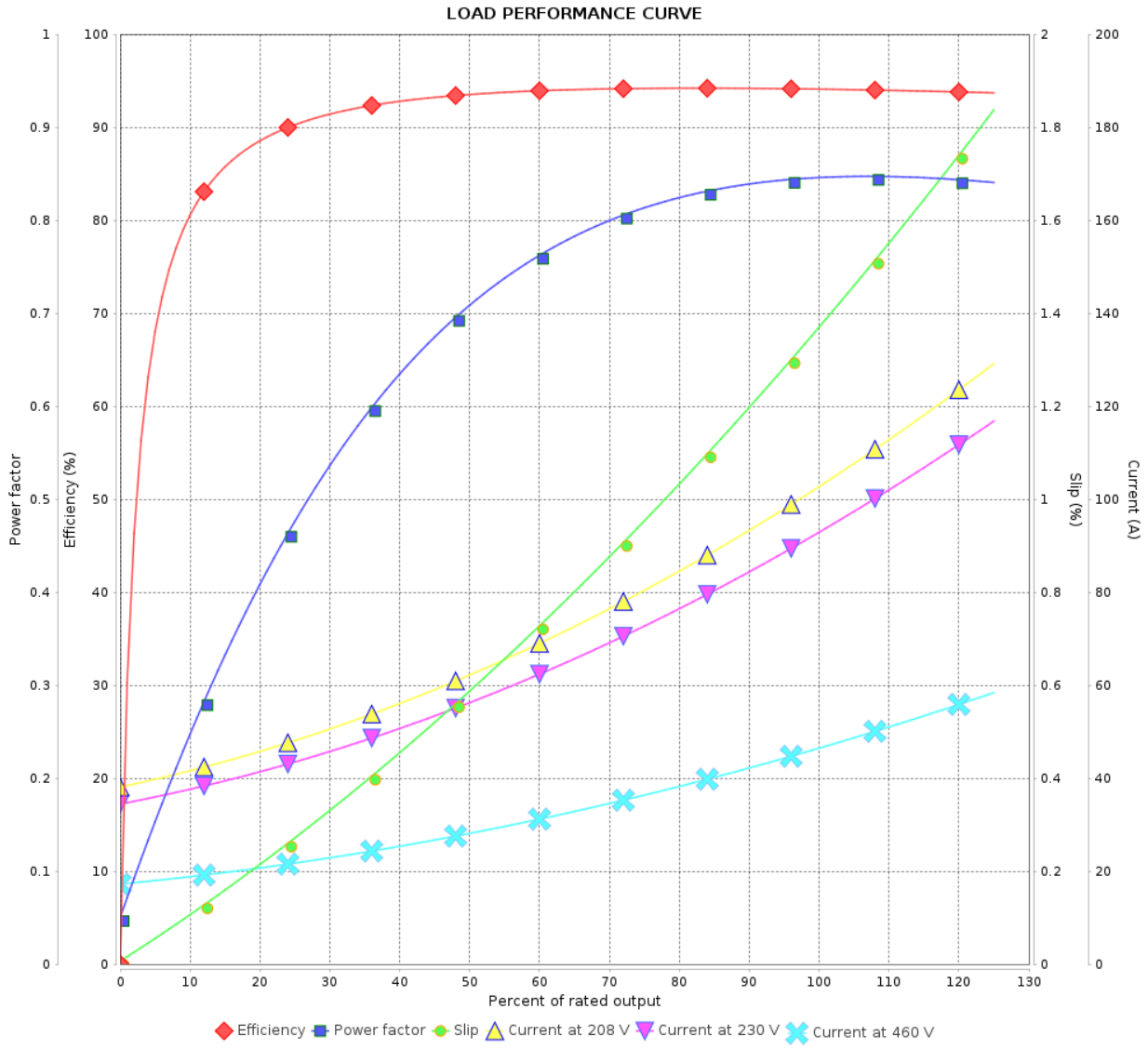
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	12603094



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 94.2/47.1 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 16 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

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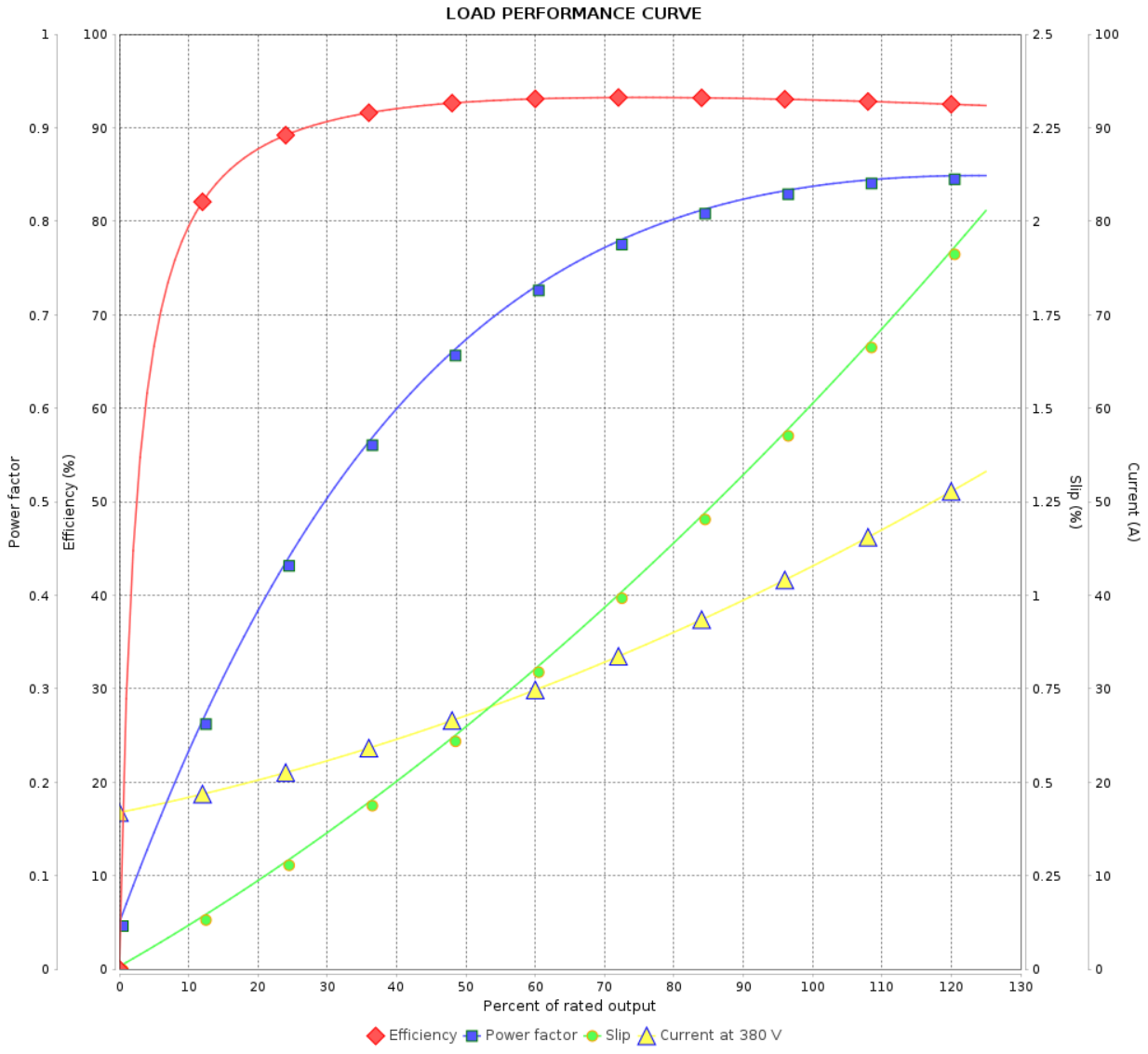
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	12603094



Performance	: 380 V 50 Hz 4P IE3

Rated current	: 42.8 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 14 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1477 rpm	Design	: B

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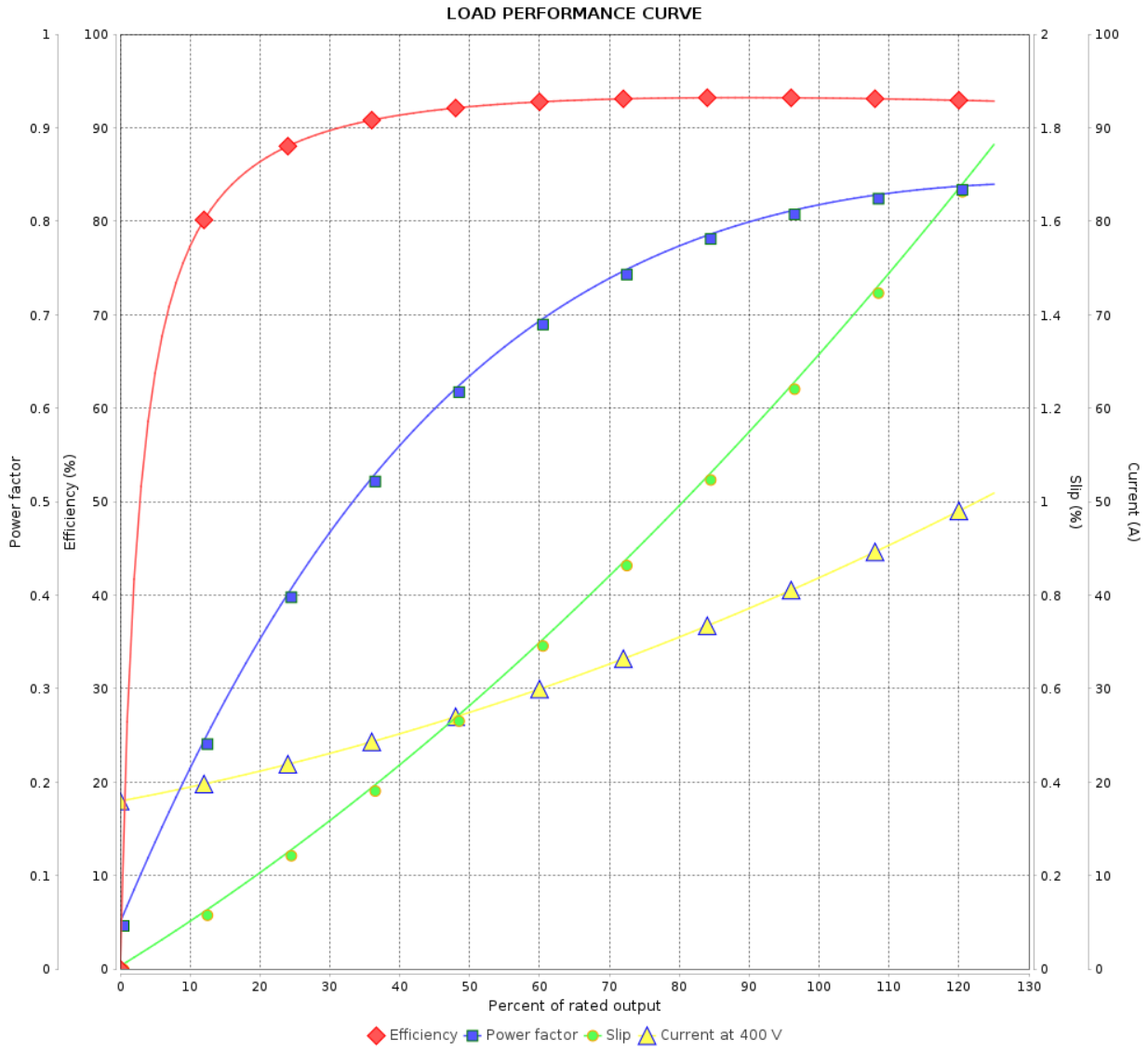
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	12603094



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 41.5 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 14 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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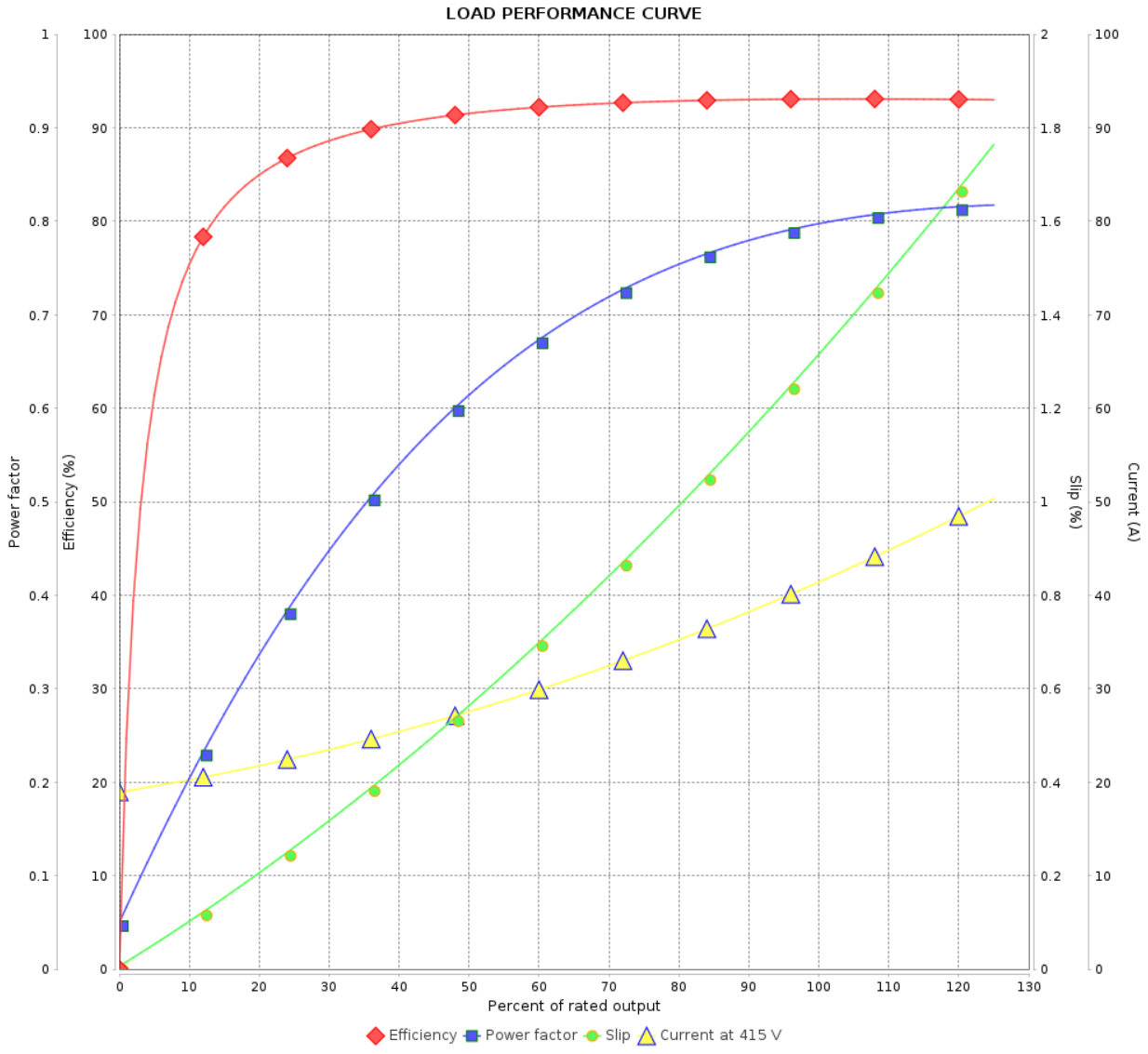
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	12603094



Performance	: 415 V 50 Hz 4P IE3

Rated current	: 41.1 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 14 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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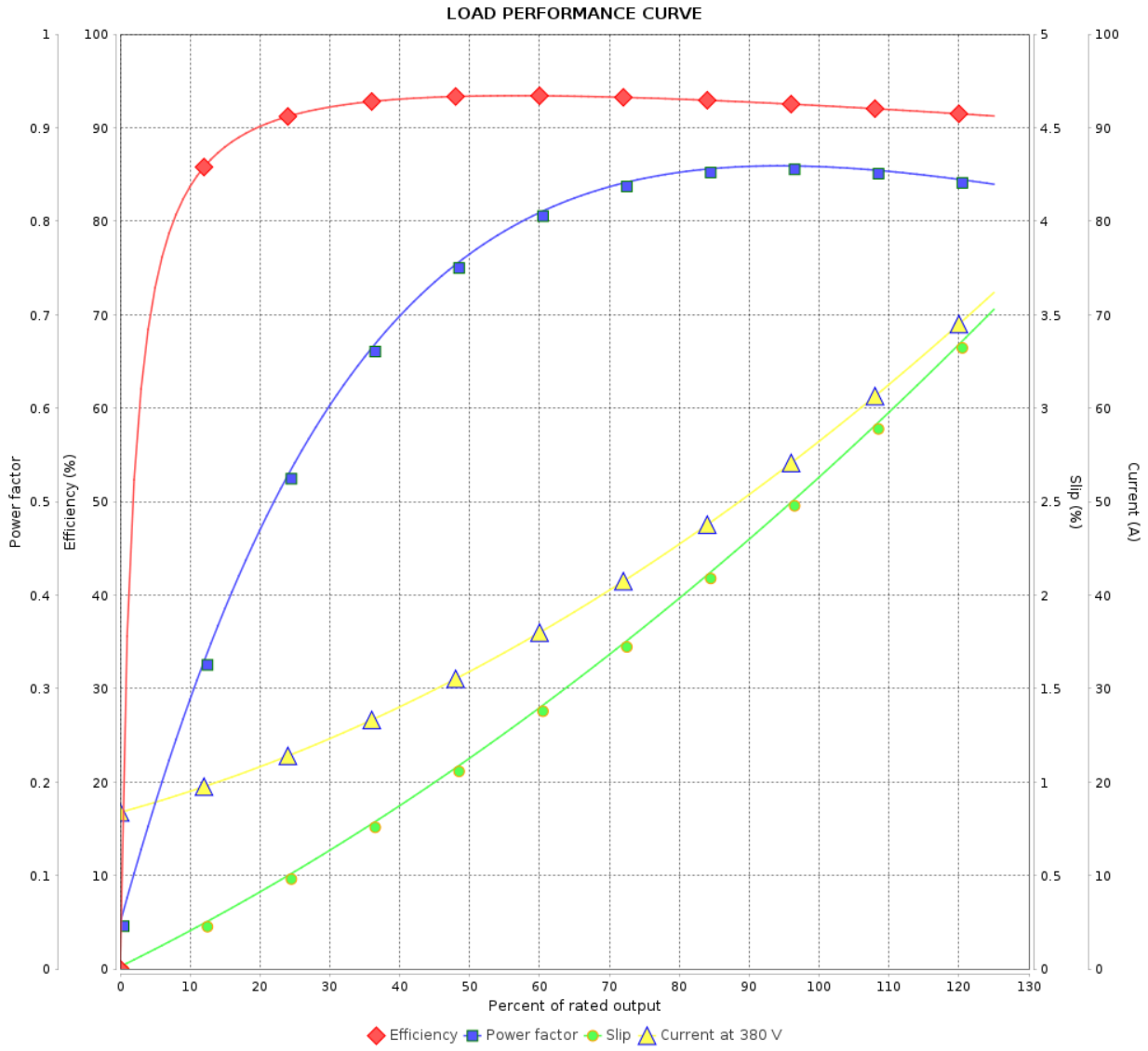
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	12603094



Performance	: 380 V 50 Hz 4P IE2		
Rated current	: 57.4 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 5.0	Duty cycle	: Cont.(S1)
Rated torque	: 19 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1460 rpm	Design	: B

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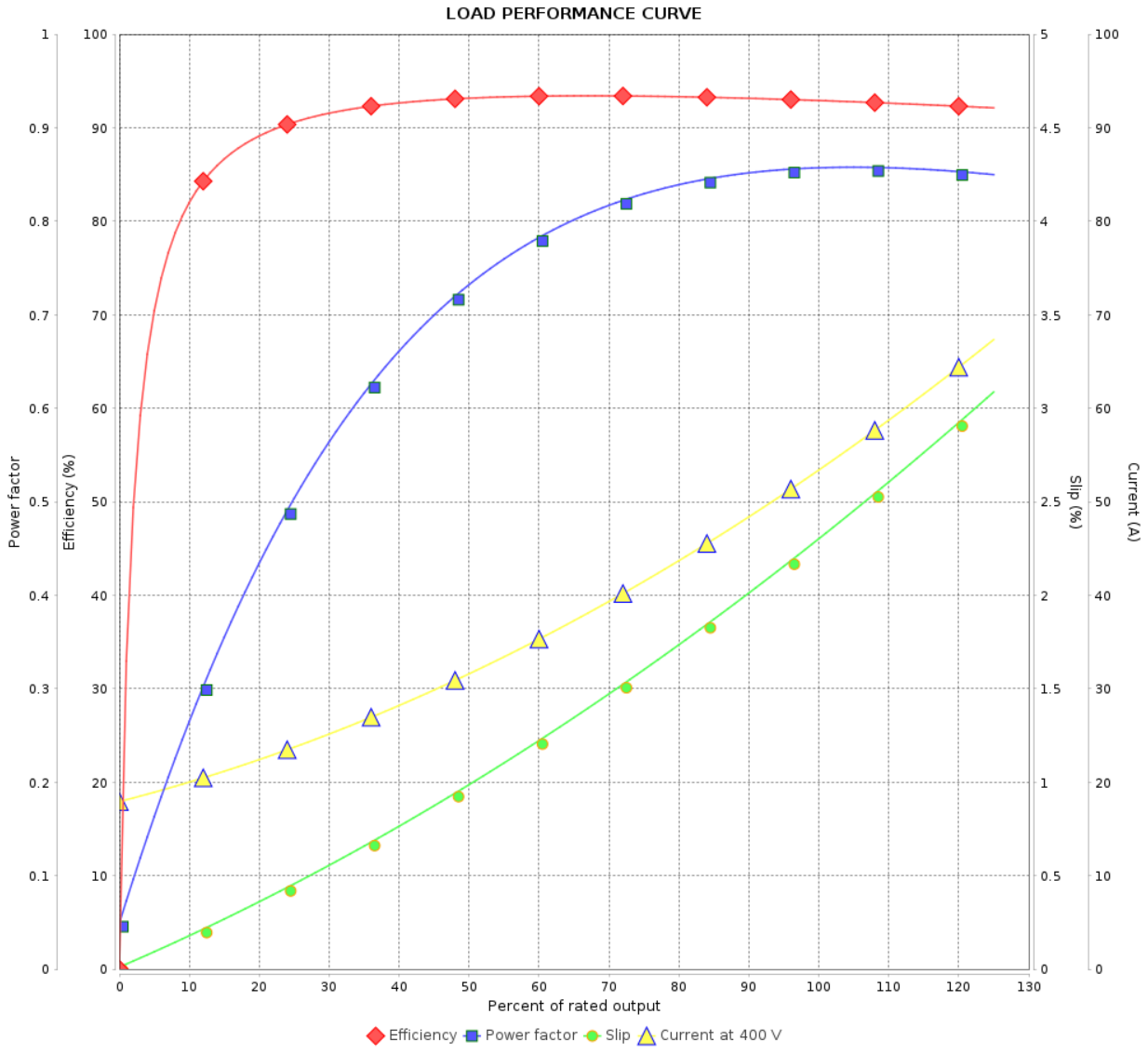
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	12603094



Performance	: 400 V 50 Hz 4P IE2

Rated current	: 54.1 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 19 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1465 rpm	Design	: B

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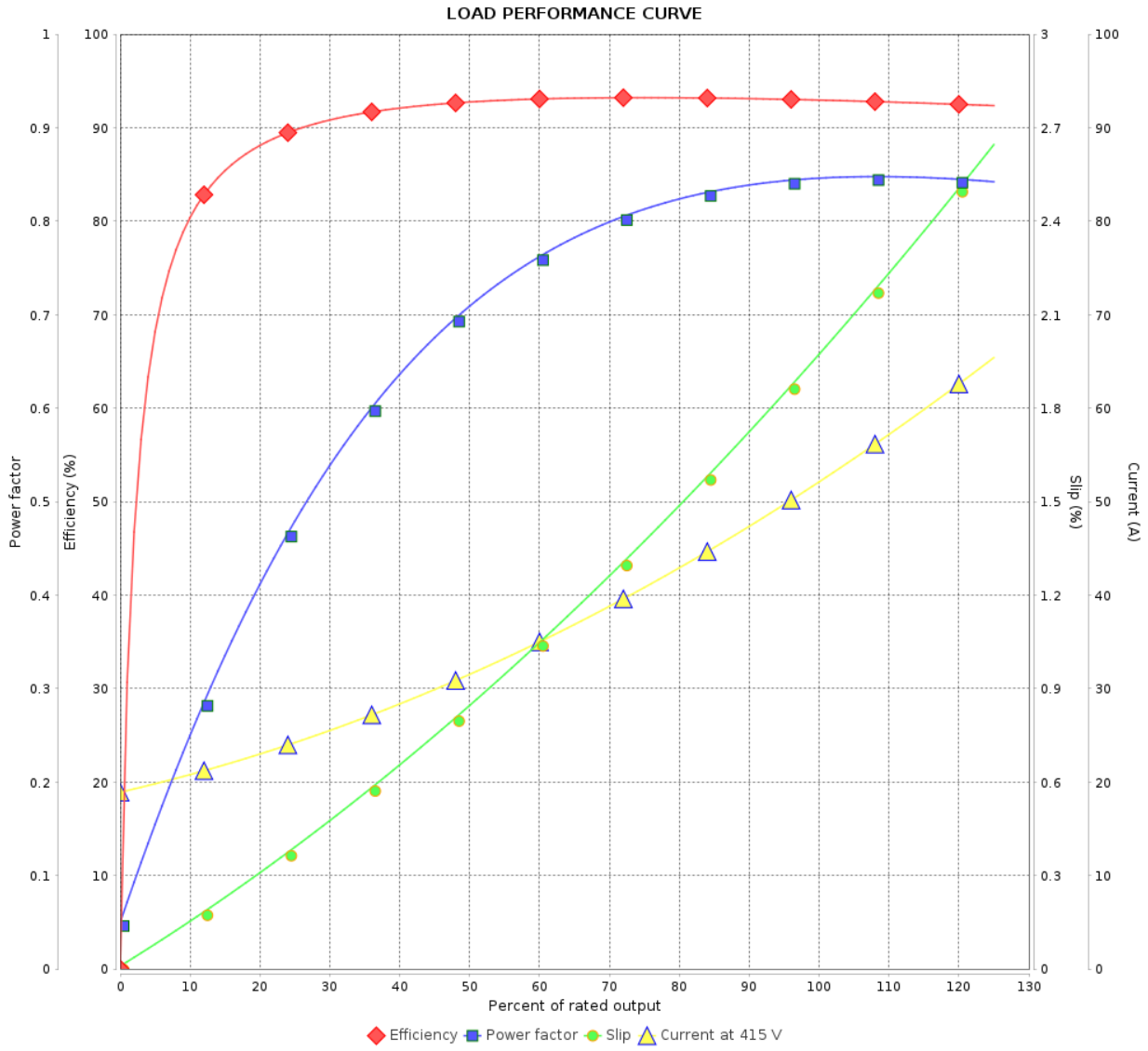
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	12603094



Performance	: 415 V 50 Hz 4P IE2		
Rated current	: 52.8 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 19 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 1470 rpm	Design	: B

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