DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11610563

Frame	: 143/5TC	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	: 23.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0066 kgm²
Design	: B		

Output [HP]		2	1.5	1.5	1.5	2	2	2
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]		5.72/2.86	2.67	2.72	2.72	3.37	3.26	3.27
L. R. Amperes [A]		47.5/23.7	21.9	23.7	24.5	21.9	23.5	25.2
LRC [A]		8.3x(Code L)	8.2x(Code L)	8.7x(Code M)	9.0x(Code N)	6.5x(Code J)	7.2x(Code K)	7.7x(Code L)
No load current [A]		3.46/1.73	1.70	1.90	2.10	1.70	1.90	2.10
Rated speed [RPM]		1750	1460	1465	1465	1435	1440	1450
Slip [%]		2.78	2.67	2.33	2.33	4.33	4.00	3.33
Rated torque [kgfm]		0	0	0	0	1	1	1
Locked rotor torque [%]		280	320	340	380	240	260	280
Breakdown torque [%]		350	360	380	409	270	290	310
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		18s (cold) 10s (hot)	28s (cold) 16s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)	16s (cold) 9s (hot)
Noise level²		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%							
	50%	85.0	83.5	82.0	81.0	84.0	83.5	83.0
	75%	86.0	84.2	83.5	83.1	84.0	84.0	84.0
	100%	86.5	84.5	84.5	84.1	82.5	84.0	84.0
Power Factor	25%							
	50%	0.55	0.52	0.48	0.45	0.62	0.58	0.53
	75%	0.68	0.65	0.61	0.56	0.75	0.72	0.67
	100%	0.76	0.74	0.69	0.67	0.82	0.79	0.76

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

Losses (%)	P1 (0,9;1,0)	16.9	18.7	18.3	17.9	19.1	17.2	16.9
	P2 (0,5;1,0)	13.4	14.8	14.5	14.2	15.1	13.7	13.4
	P3 (0,25;1,0)	12.0	13.4	13.1	12.8	13.6	12.3	12.1
	P4 (0,9;0,5)	12.1	13.4	13.1	12.9	13.7	12.4	12.2
	P5 (0,5;0,5)	8.7	9.7	9.5	9.3	9.9	8.9	8.8
	P6 (0,5;0,25)	7.9	8.8	8.6	8.4	9.0	8.1	8.0
	P7 (0,25;0,25)	5.9	6.6	6.4	6.3	6.7	6.1	5.9

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6204 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

Foundation loads

Max. traction : 76 kgf

Max. compression : 100 kgf

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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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes
USABLE @208V 5.85A SF 1.15 SFA 6.73A

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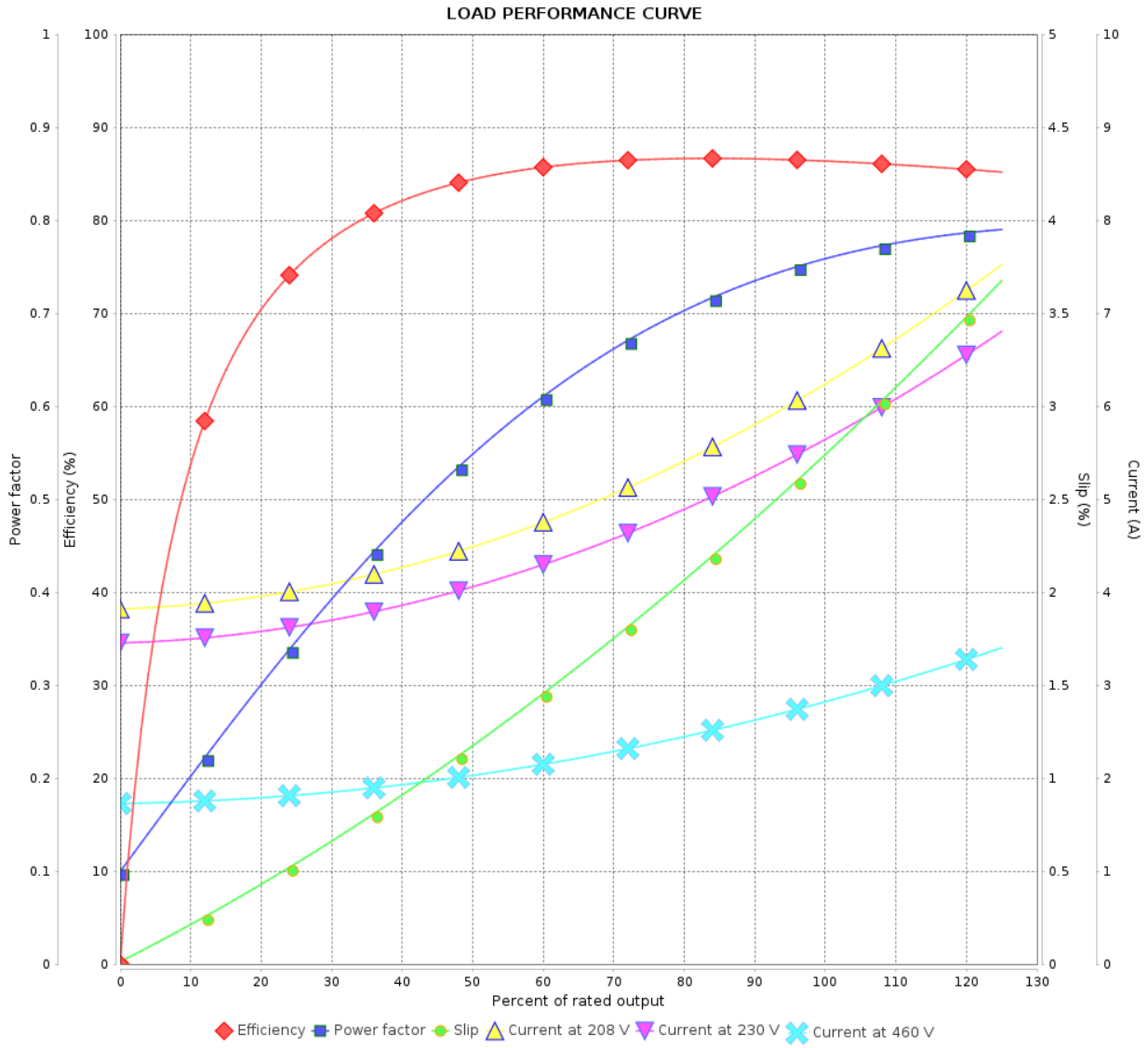
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11610563



Performance	: 230/460 V 60 Hz 4P

Rated current	: 5.72/2.86 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

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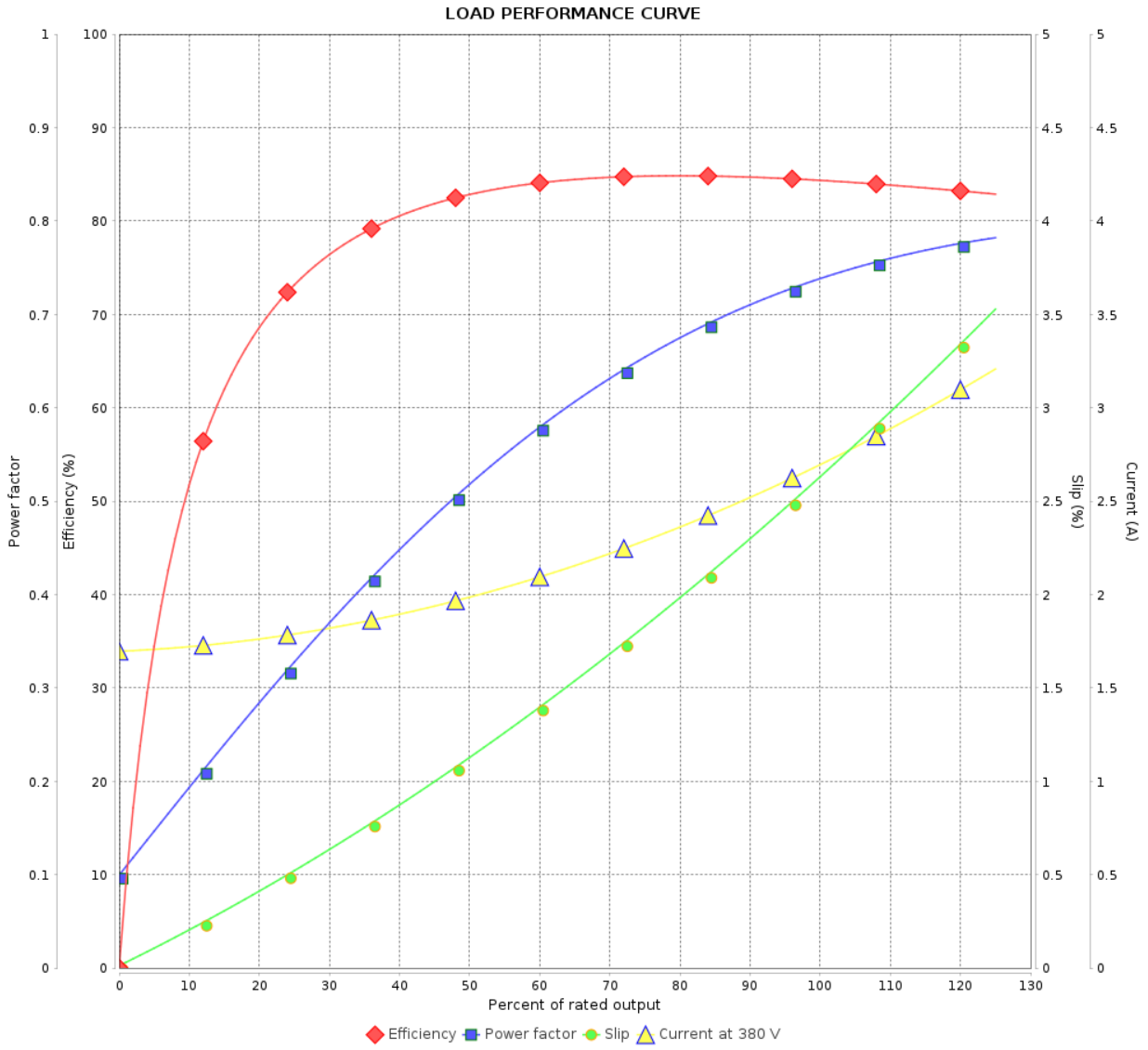
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11610563



Performance	: 380 V 50 Hz 4P IE3

Rated current	: 2.67 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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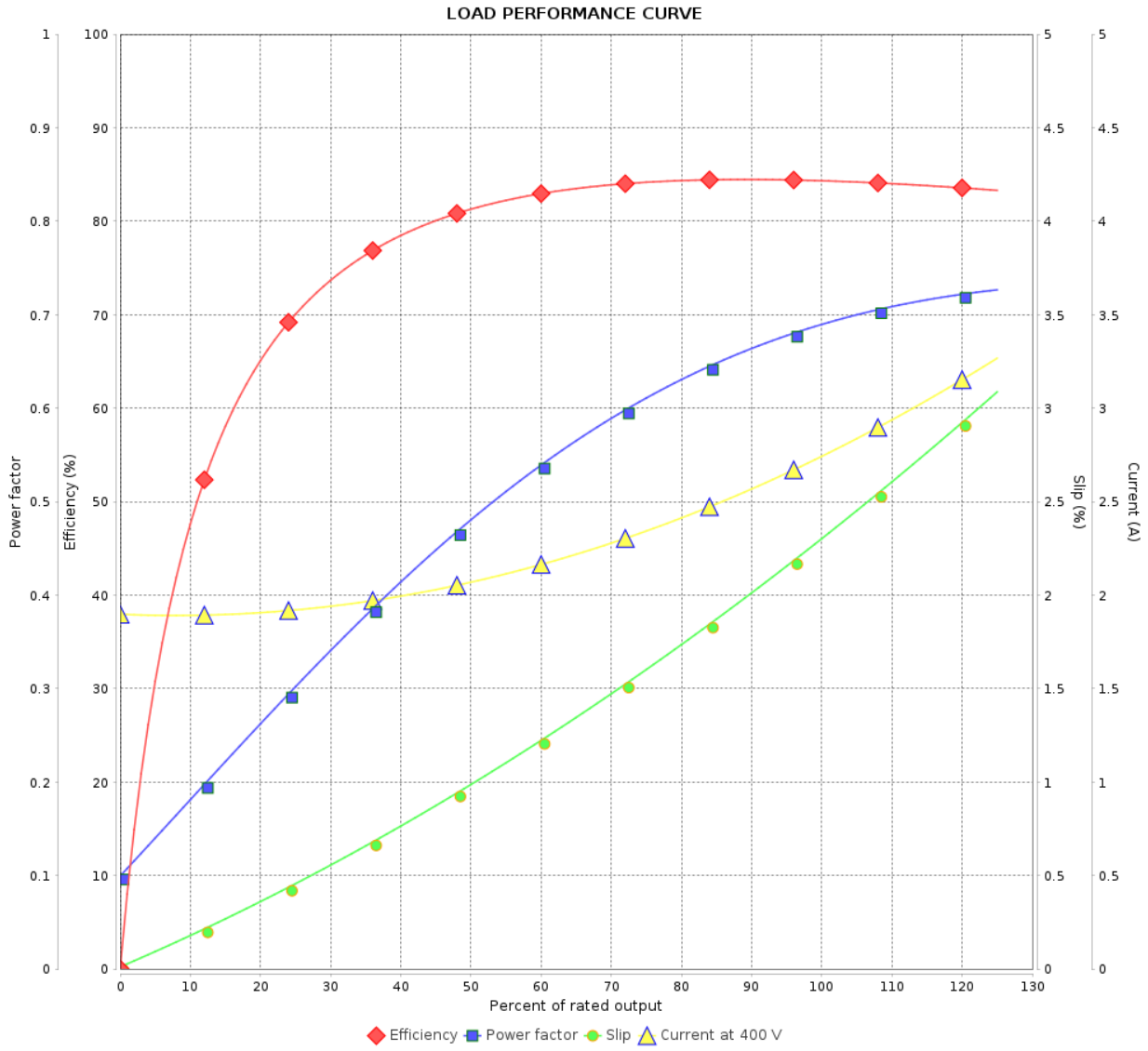
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11610563



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 2.72 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 8.7	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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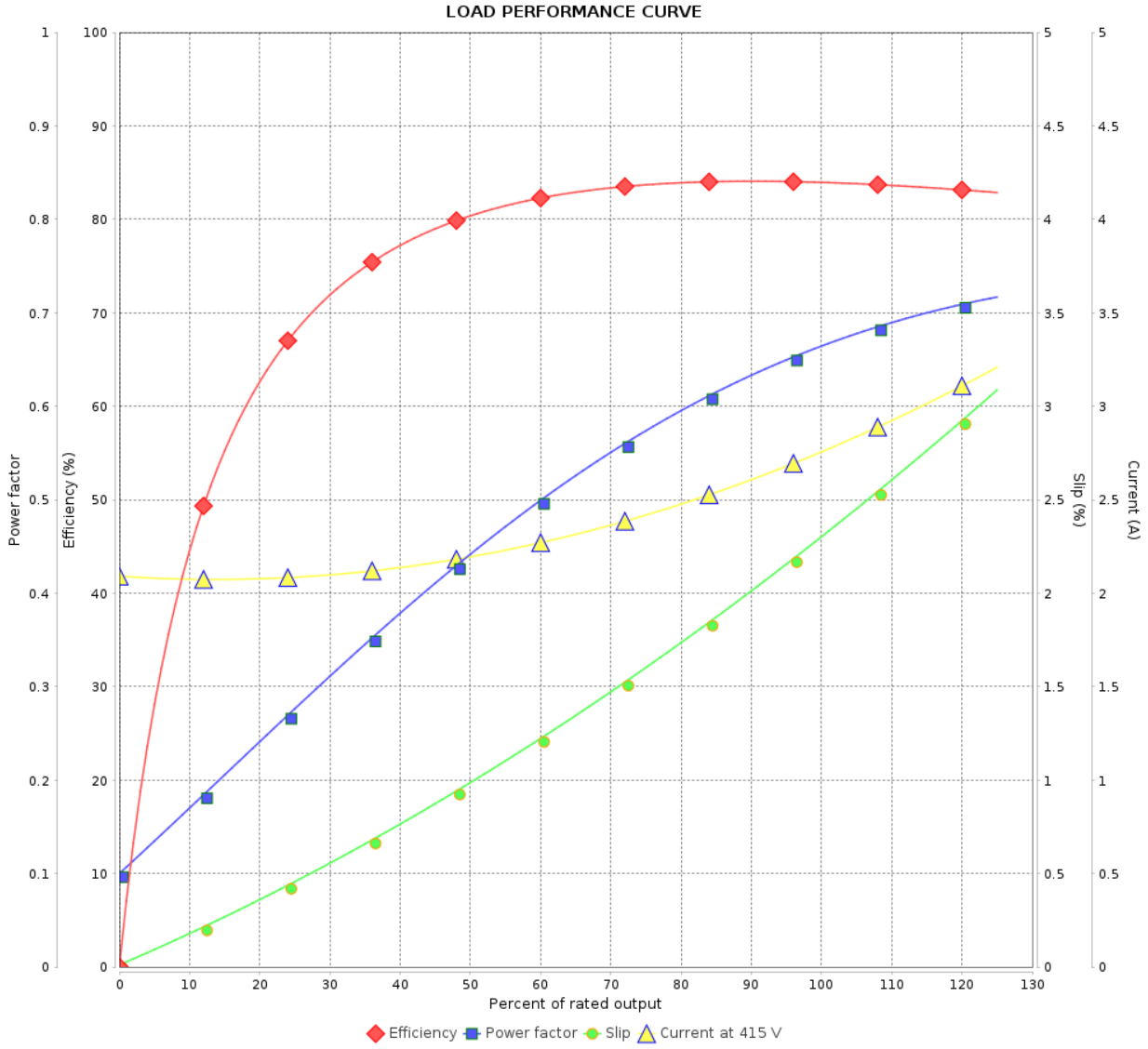
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11610563



Performance	: 415 V 50 Hz 4P IE3

Rated current	: 2.72 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 9.0	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 380 %	Service factor	: 1.25
Breakdown torque	: 409 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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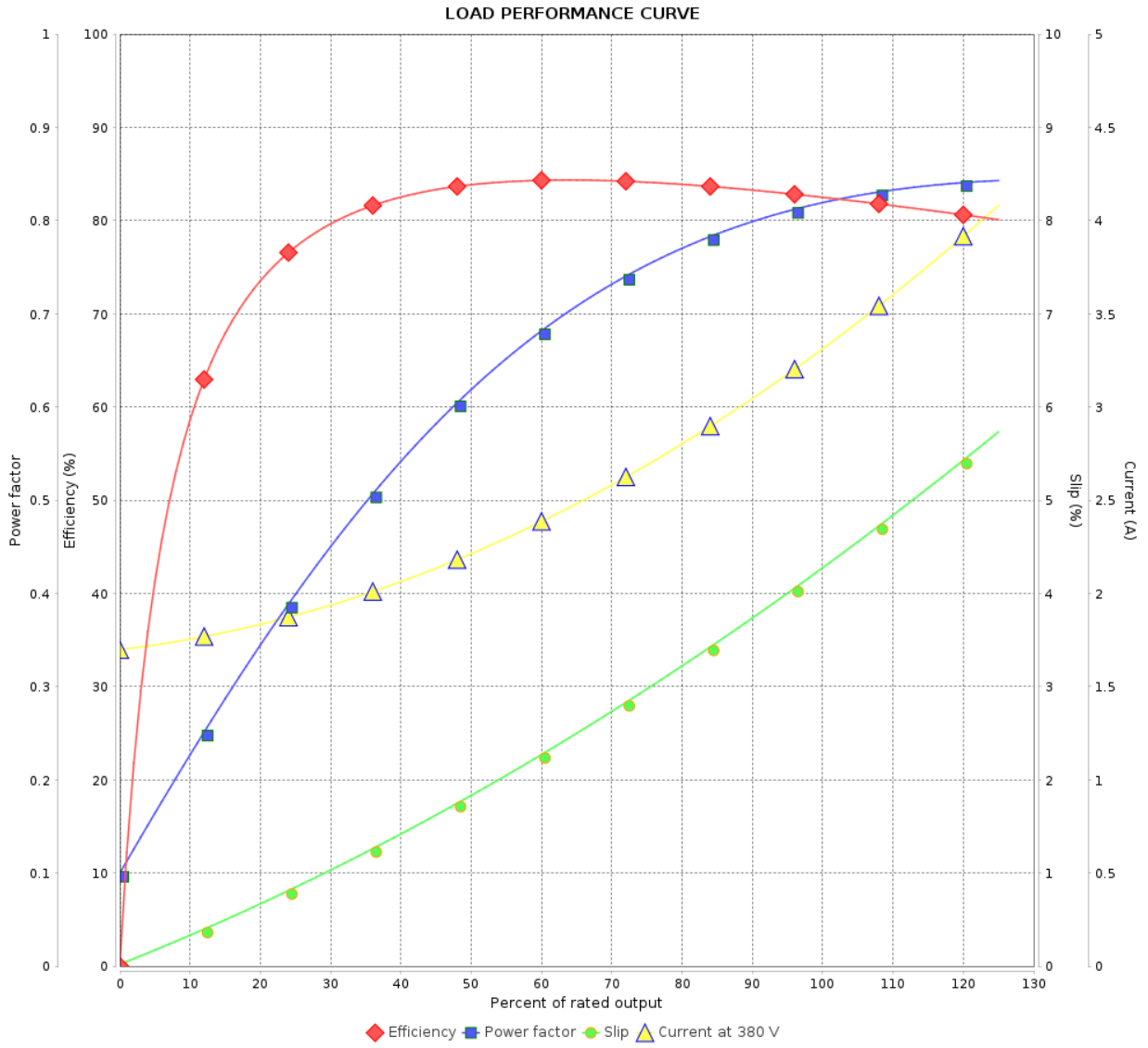
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11610563



Performance	: 380 V 50 Hz 4P IE1

Rated current	: 3.37 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1435 rpm	Design	: B

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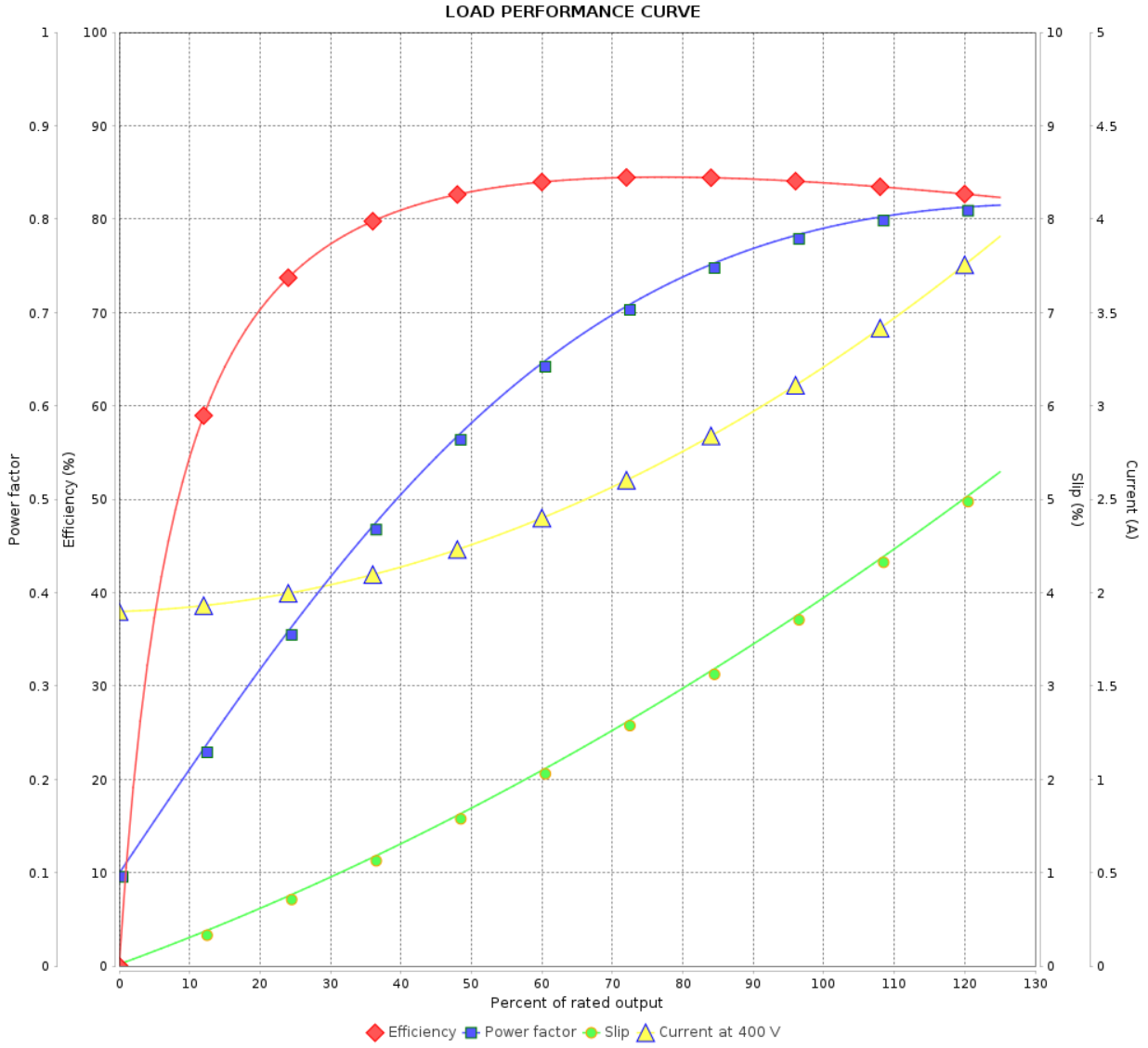
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11610563



Performance	: 400 V 50 Hz 4P IE2

Rated current	: 3.26 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B

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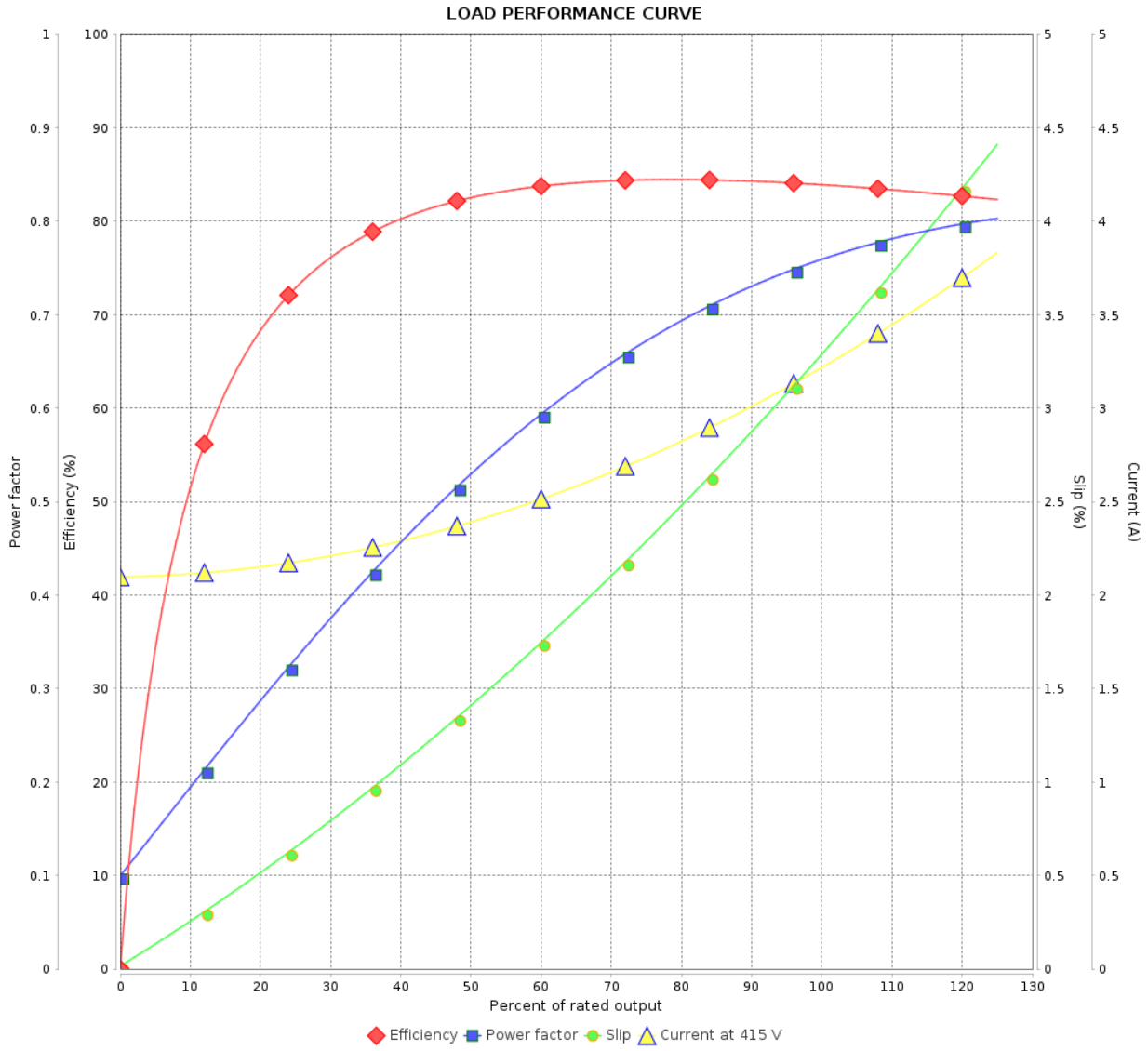
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11610563



Performance	: 415 V 50 Hz 4P IE2

Rated current	: 3.27 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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