DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11416668

Frame	: 182/4T	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	: 43.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0169 kgm²
Design	: B		

Output [HP]		5	4	4	4	5	5	5
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]		13.0/6.49	6.42	6.21	6.23	7.74	7.44	7.35
L. R. Amperes [A]		97.4/48.7	44.9	47.8	51.1	44.9	47.6	50.7
LRC [A]		7.5x(Code J)	7.0x(Code J)	7.7x(Code K)	8.2x(Code L)	5.8x(Code G)	6.4x(Code H)	6.9x(Code J)
No load current [A]		6.00/3.00	3.00	3.40	3.70	3.00	3.40	3.70
Rated speed [RPM]		1750	1450	1455	1460	1430	1440	1445
Slip [%]		2.78	3.33	3.00	2.67	4.67	4.00	3.67
Rated torque [kgfm]		2	2	1	1	2	2	2
Locked rotor torque [%]		229	229	260	290	185	210	229
Breakdown torque [%]		300	300	320	350	225	250	270
Service factor		1.25	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level²		56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%	0.000				0.000		
	50%	88.5	87.5	86.7	86.5	88.5	87.5	87.5
	75%	89.5	88.2	88.2	88.2	87.5	88.5	88.5
	100%	89.5	87.7	88.2	88.2	86.5	87.5	87.5
Power Factor	25%	0.00				0.00		
	50%	0.60	0.61	0.57	0.53	0.69	0.65	0.61
	75%	0.72	0.75	0.71	0.67	0.80	0.77	0.74
	100%	0.80	0.81	0.79	0.76	0.84	0.82	0.80

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

Losses (%)	P1 (0,9;1,0)	11.1	13.3	12.6	12.6	14.8	13.5	13.5
	P2 (0,5;1,0)	9.3	11.2	10.7	10.7	12.4	11.4	11.4
	P3 (0,25;1,0)	9.4	11.3	10.8	10.8	12.5	11.5	11.5
	P4 (0,9;0,5)	5.6	6.6	6.3	6.3	7.4	6.8	6.8
	P5 (0,5;0,5)	3.9	4.6	4.4	4.4	5.1	4.7	4.7
	P6 (0,5;0,25)	2.7	3.2	3.0	3.0	3.6	3.3	3.3
	P7 (0,25;0,25)	1.9	2.3	2.2	2.2	2.6	2.3	2.3

		Drive end	Non drive end
Bearing type	:	6207 ZZ	6206 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

Foundation loads

Max. traction : 121 kgf

Max. compression : 163 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 14.3A SF 1.15 SFA 16.4A

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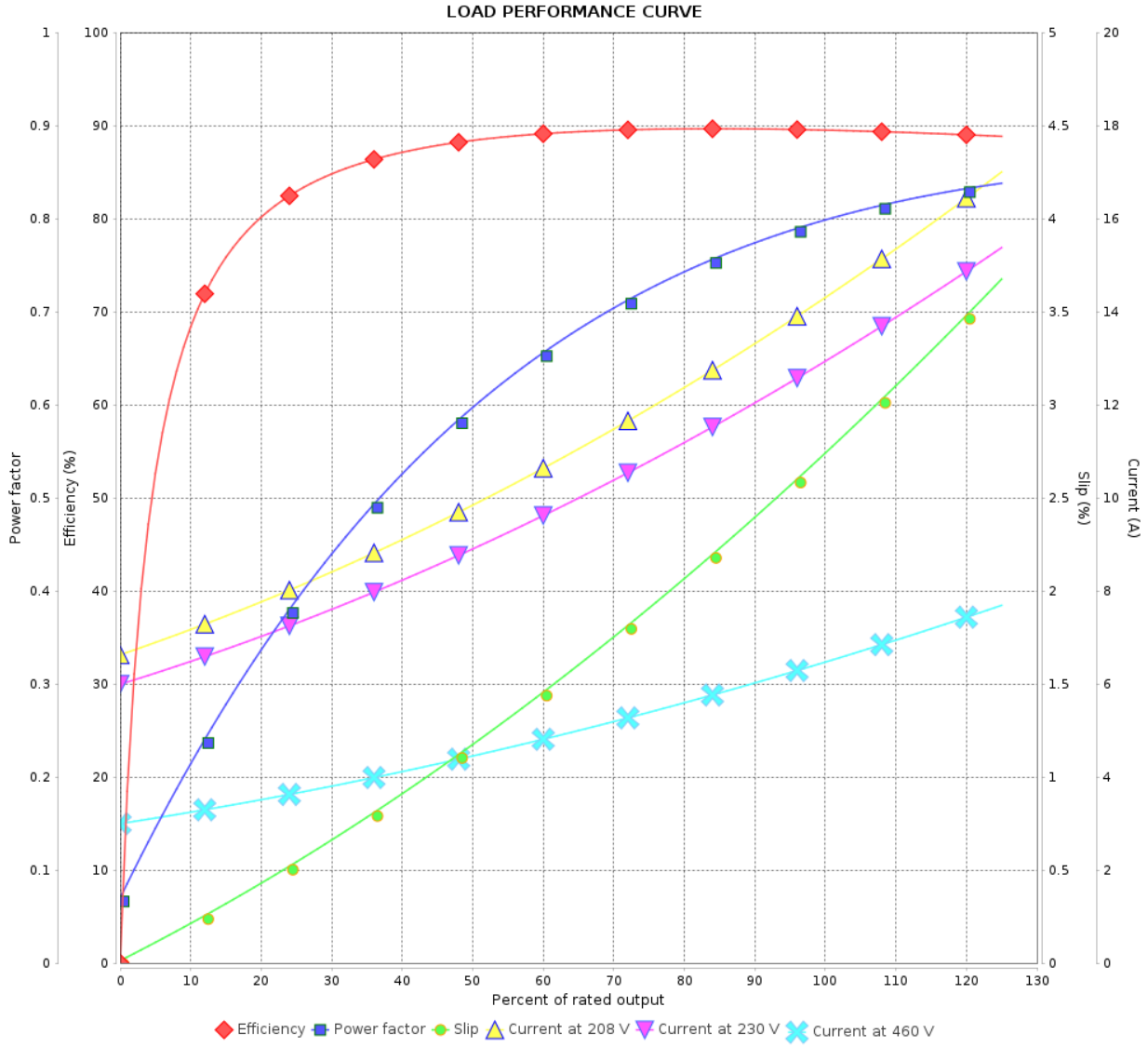
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11416668



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 13.0/6.49 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

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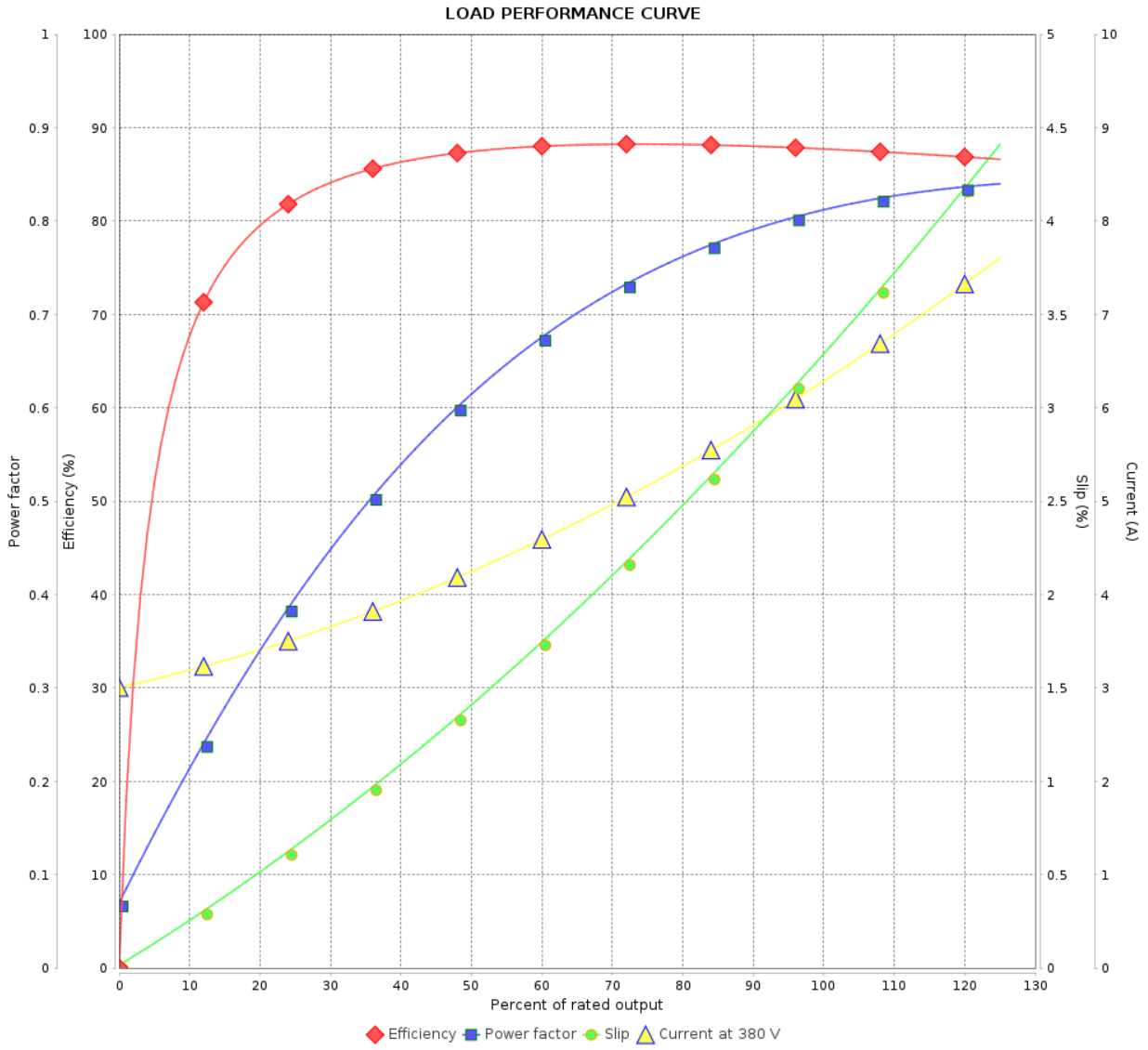
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11416668



Performance	: 380 V 50 Hz 4P IE3

Rated current	: 6.42 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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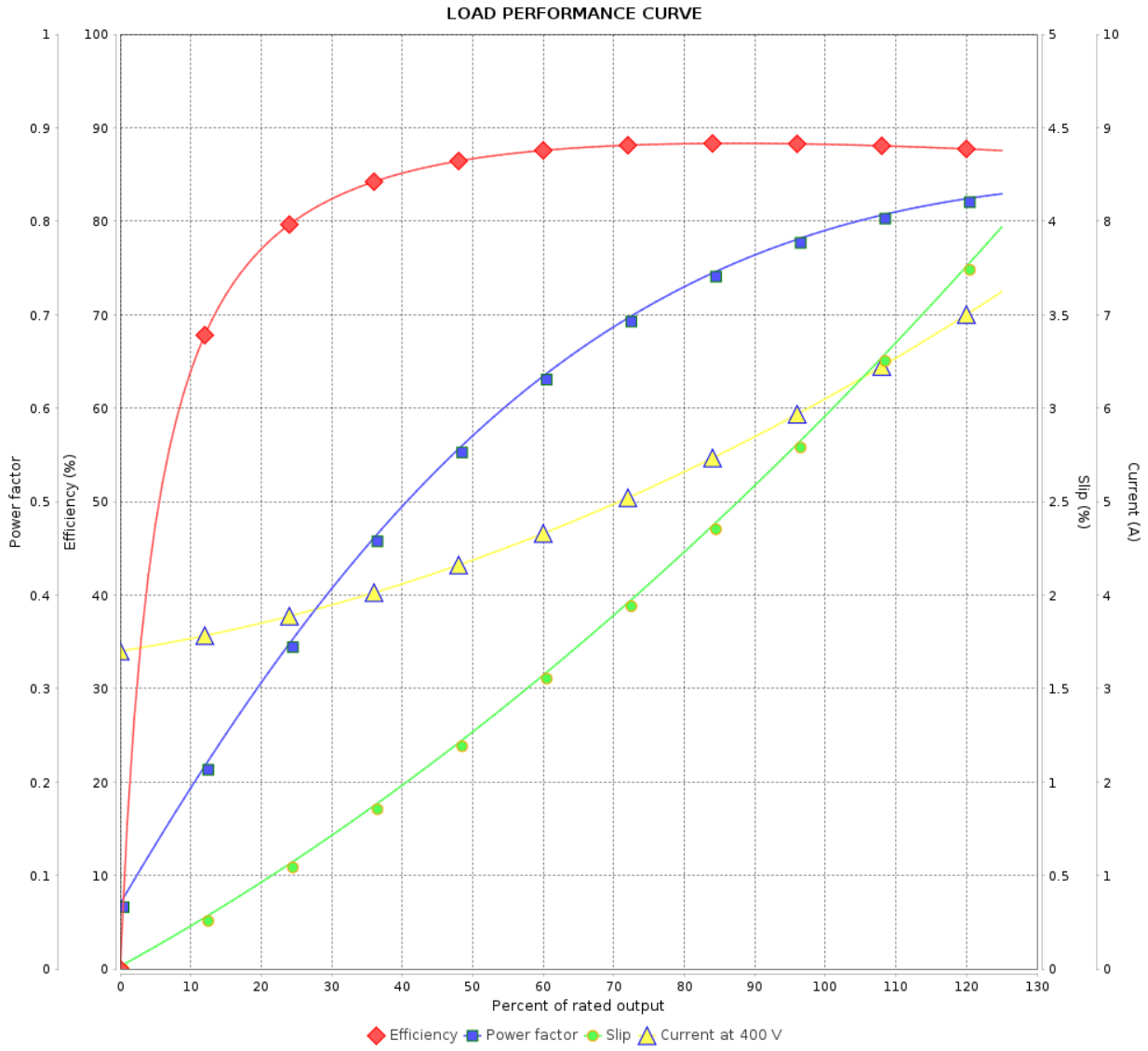
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11416668



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 6.21 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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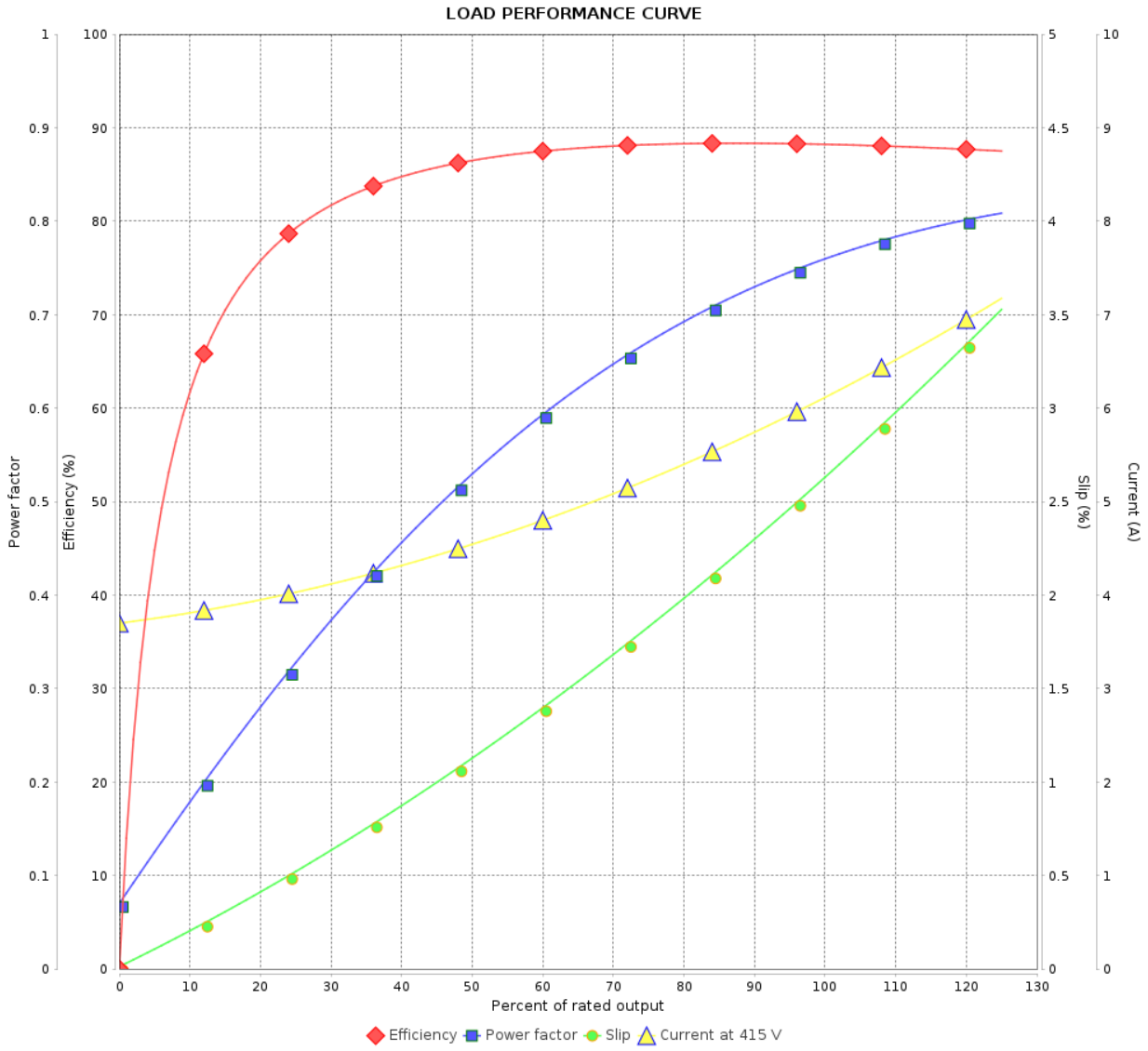
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11416668



Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 6.23 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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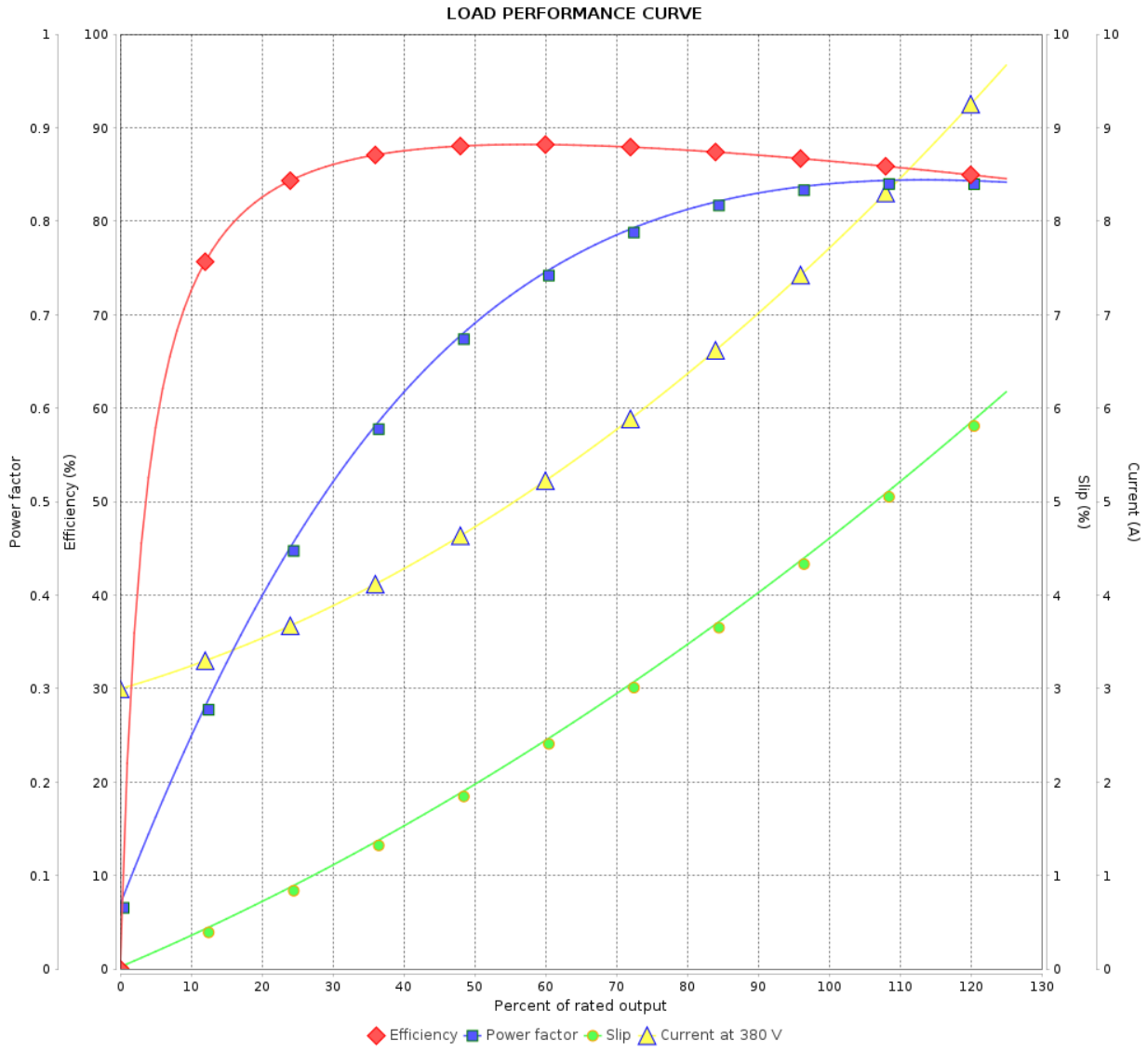
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11416668



Performance	: 380 V 50 Hz 4P IE2		
Rated current	: 7.74 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 185 %	Service factor	: 1.15
Breakdown torque	: 225 %	Temperature rise	: 80 K
Rated speed	: 1430 rpm	Design	: B

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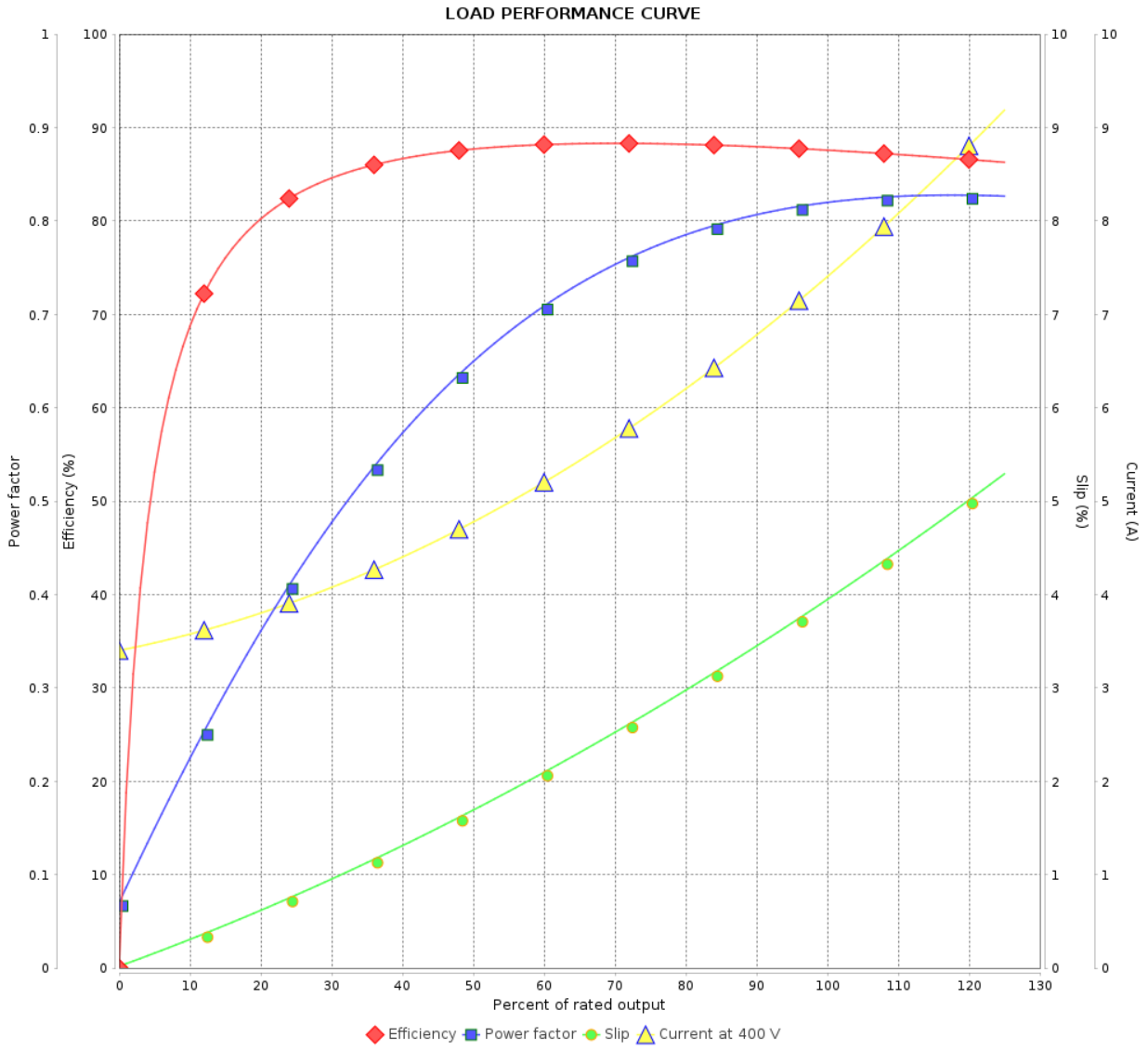
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11416668



Performance	: 400 V 50 Hz 4P IE2

Rated current	: 7.44 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B

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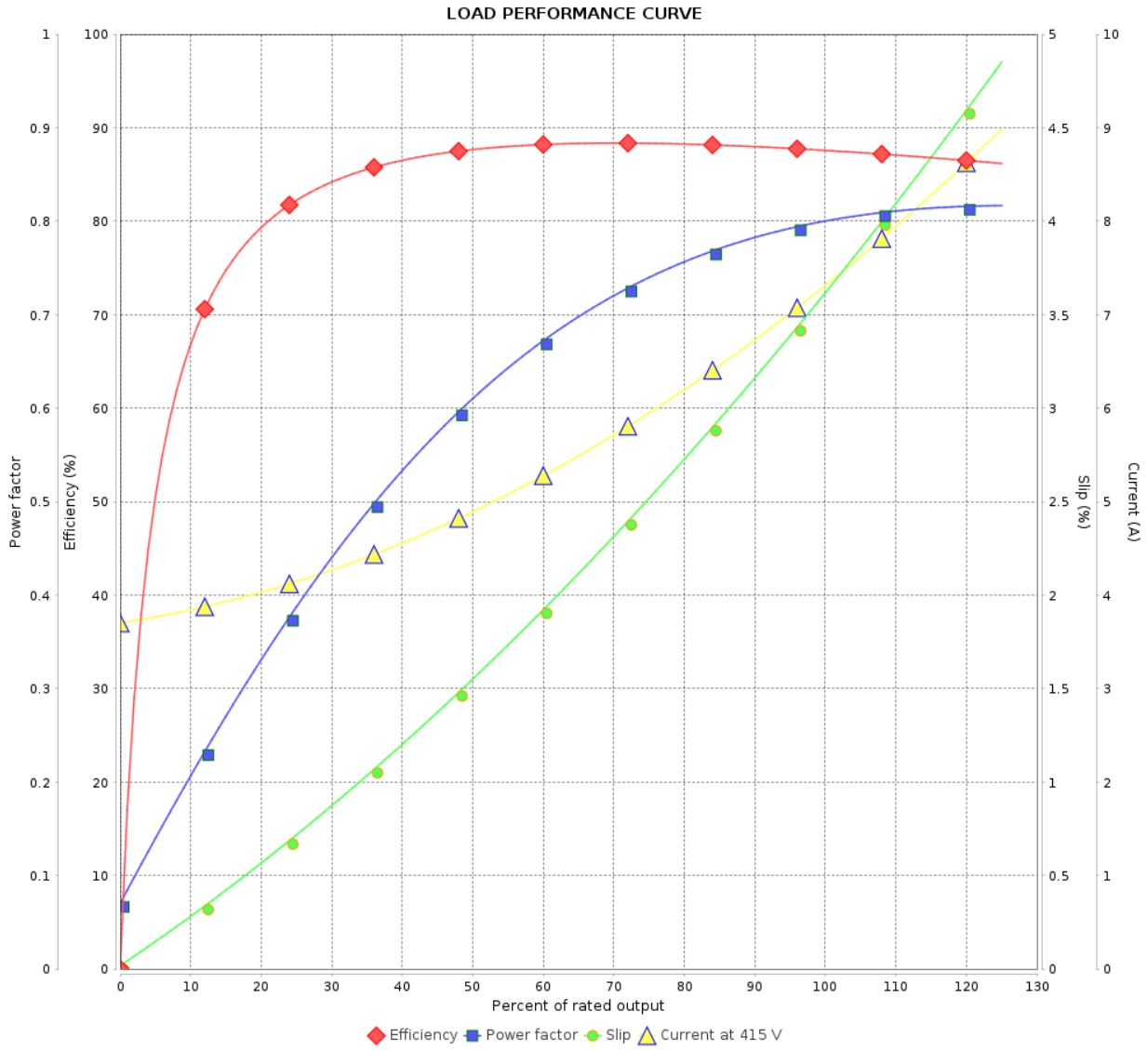
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11416668



Performance	: 415 V 50 Hz 4P IE2		
Rated current	: 7.35 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1445 rpm	Design	: B

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