DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11441757

Frame	: 182/4TC	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	: 40.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0094 kgm²
Design	: B		

Output [HP]		5	4	4	4	5	5	5
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]		11.8/5.90	5.85	5.57	5.43	7.14	6.78	6.61
L. R. Amperes [A]		89.7/44.8	44.5	46.8	50.5	42.8	46.1	49.6
LRC [A]		7.6x(Code J)	7.6x(Code J)	8.4x(Code K)	9.3x(Code L)	6.0x(Code G)	6.8x(Code H)	7.5x(Code J)
No load current [A]		4.00/2.00	1.90	2.00	2.10	1.90	2.00	2.10
Rated speed [RPM]		3500	2900	2915	2920	2860	2880	2895
Slip [%]		2.78	3.33	2.83	2.67	4.67	4.00	3.50
Rated torque [kgfm]		1	1	0	0	1	1	1
Locked rotor torque [%]		229	220	250	270	180	200	220
Breakdown torque [%]		350	310	350	380	240	270	300
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		30s (cold) 17s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	28s (cold) 16s (hot)	23s (cold) 13s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)
Noise level²		66.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
Efficiency (%)	25%	83.7				85.9		
	50%	86.5	86.3	86.3	86.1	87.5	87.5	87.5
	75%	88.3	87.7	88.2	88.2	87.5	88.5	88.5
	100%	88.5	87.5	88.3	88.3	86.5	87.5	87.5
Power Factor	25%	0.56				0.63		
	50%	0.76	0.74	0.71	0.68	0.81	0.78	0.76
	75%	0.85	0.85	0.83	0.81	0.88	0.87	0.85
	100%	0.89	0.89	0.88	0.87	0.91	0.90	0.89

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

Losses (%)	P1 (0,9;1,0)	12.4	13.7	12.7	12.7	14.9	13.7	13.7
	P2 (0,5;1,0)	10.3	11.3	10.5	10.5	12.3	11.3	11.3
	P3 (0,25;1,0)	9.8	10.8	10.0	10.0	11.8	10.8	10.8
	P4 (0,9;0,5)	6.2	6.8	6.3	6.3	7.5	6.8	6.8
	P5 (0,5;0,5)	3.9	4.3	4.0	4.0	4.7	4.3	4.3
	P6 (0,5;0,25)	2.5	2.7	2.5	2.5	3.0	2.7	2.7
	P7 (0,25;0,25)	1.6	1.8	1.6	1.6	1.9	1.8	1.8

		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 : 57 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 13.1A SF 1.15 SFA 15.0A

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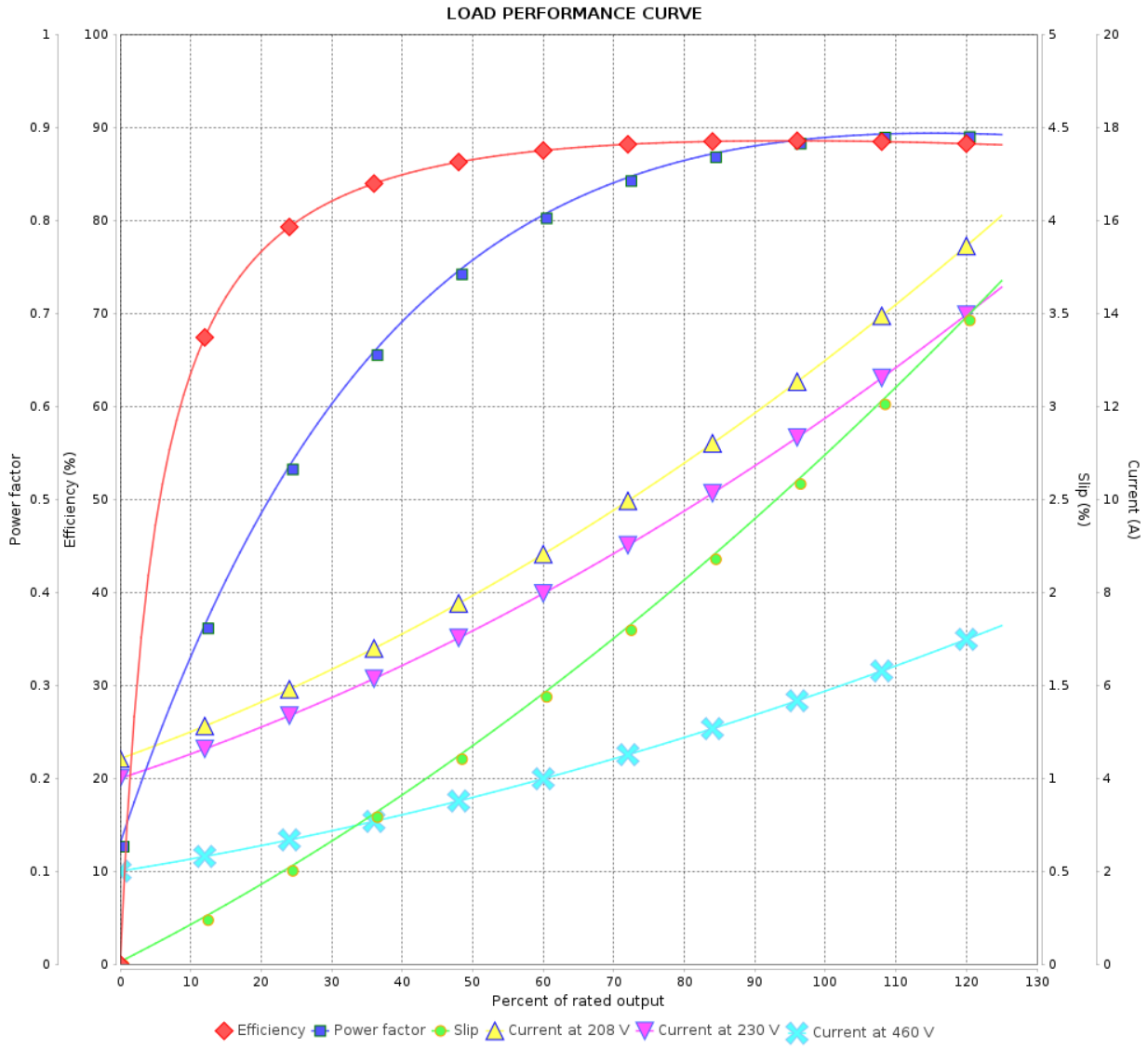
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 NEMA Premium Efficiency Three-Phase
Product code :	11441757



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 11.8/5.90 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3500 rpm	Design	: B

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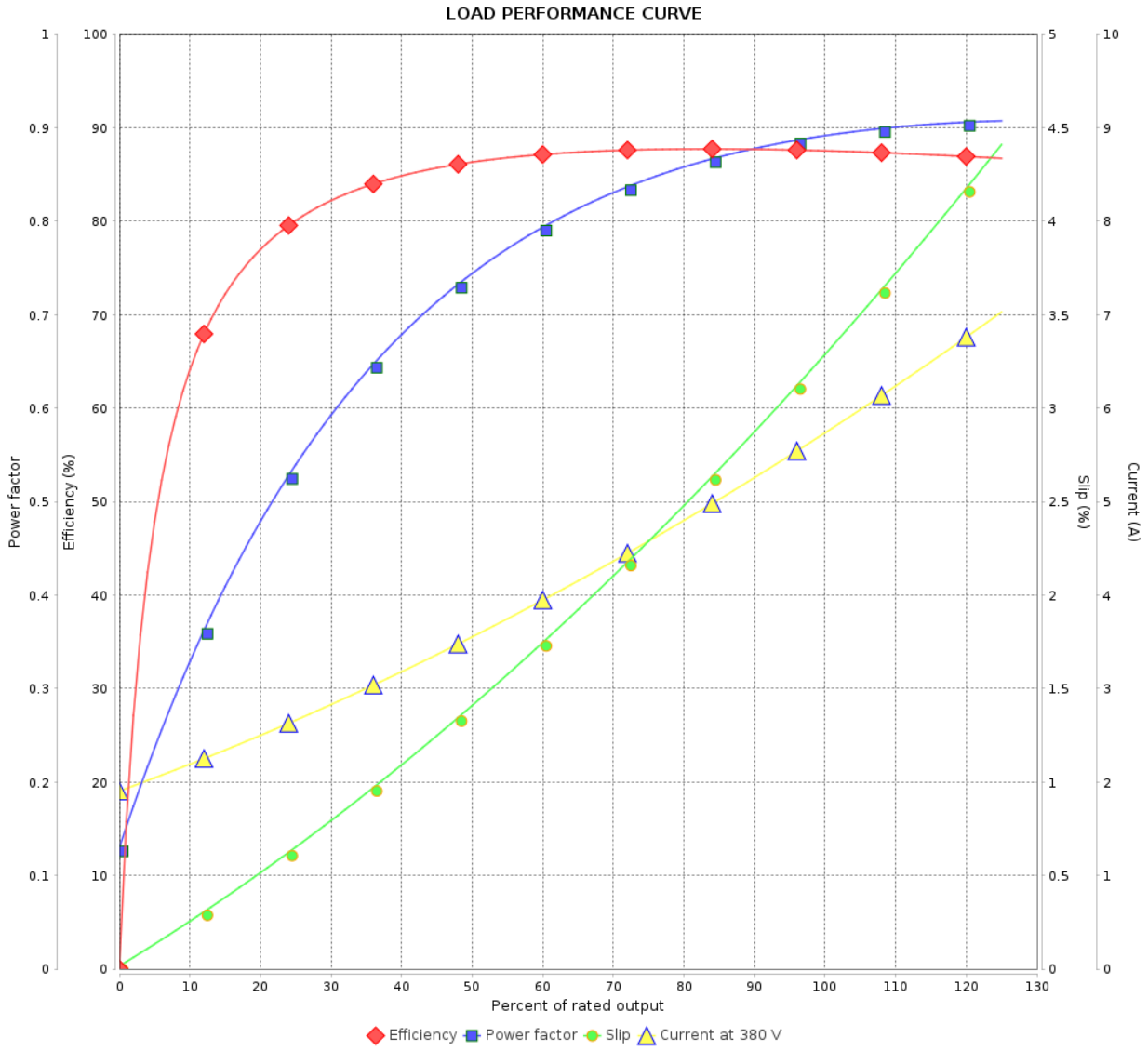
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11441757



Performance	: 380 V 50 Hz 2P IE3

Rated current	: 5.85 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

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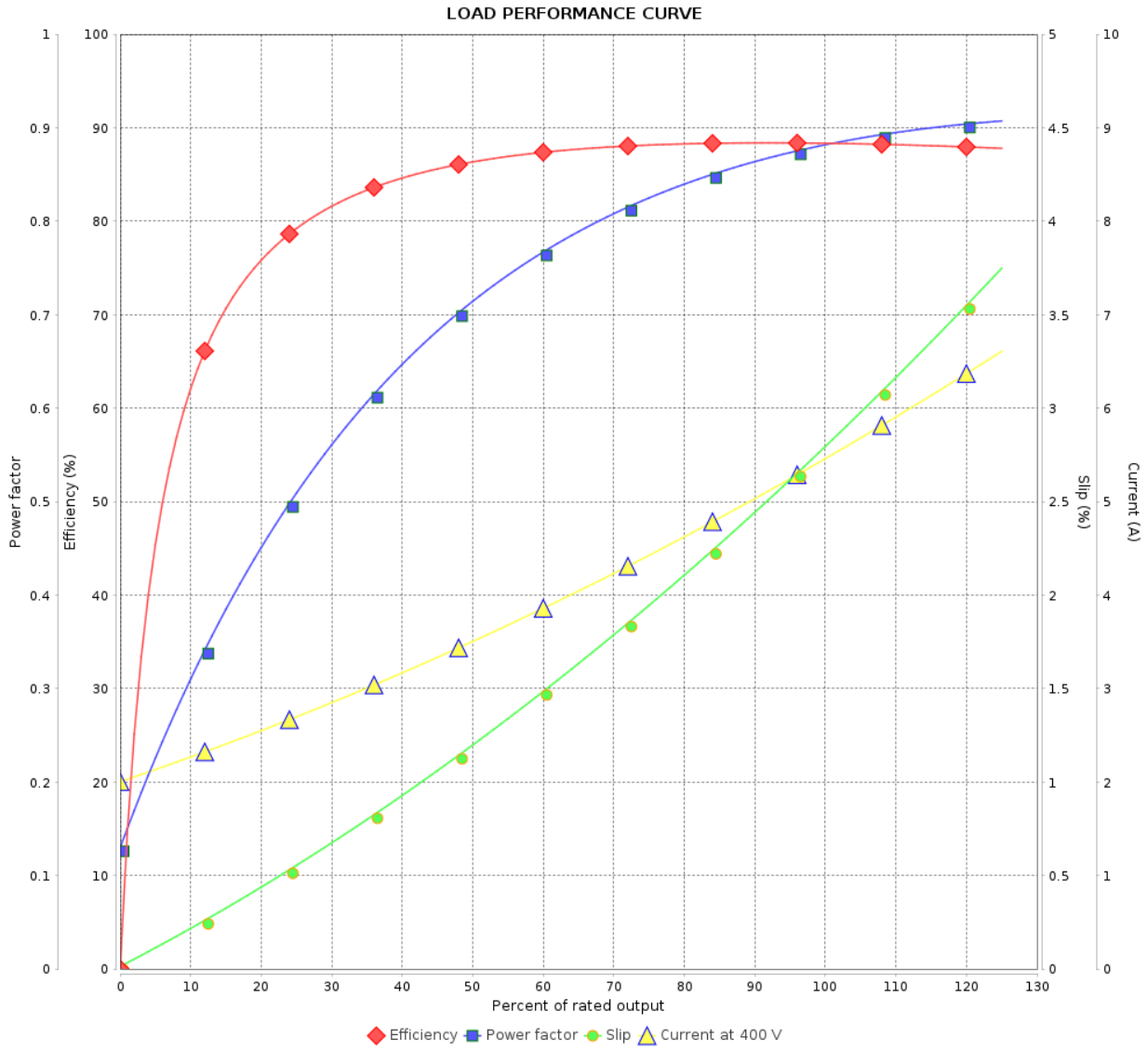
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11441757



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 5.57 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 2915 rpm	Design	: B

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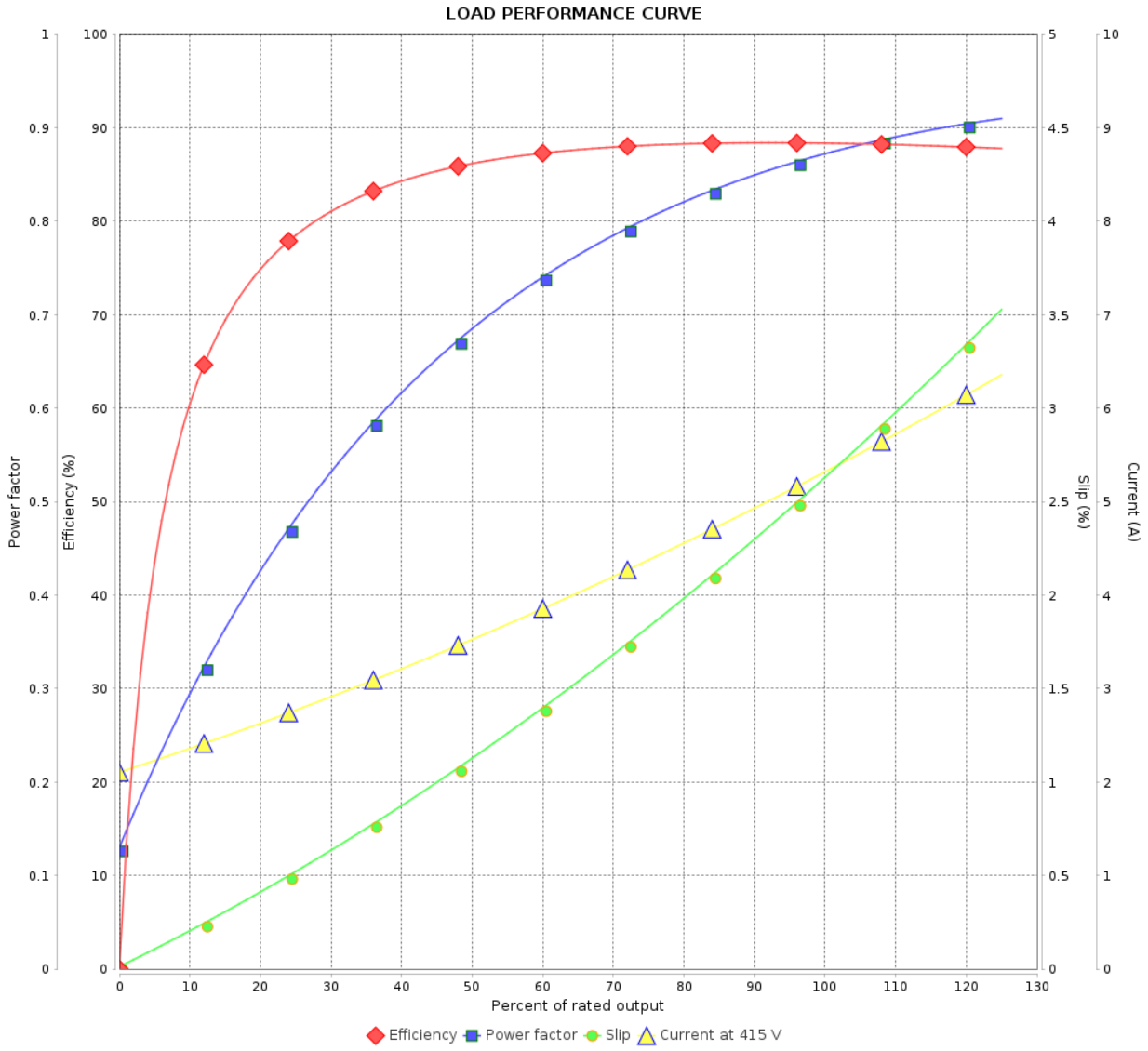
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11441757



Performance	: 415 V 50 Hz 2P IE3

Rated current	: 5.43 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 9.3	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B

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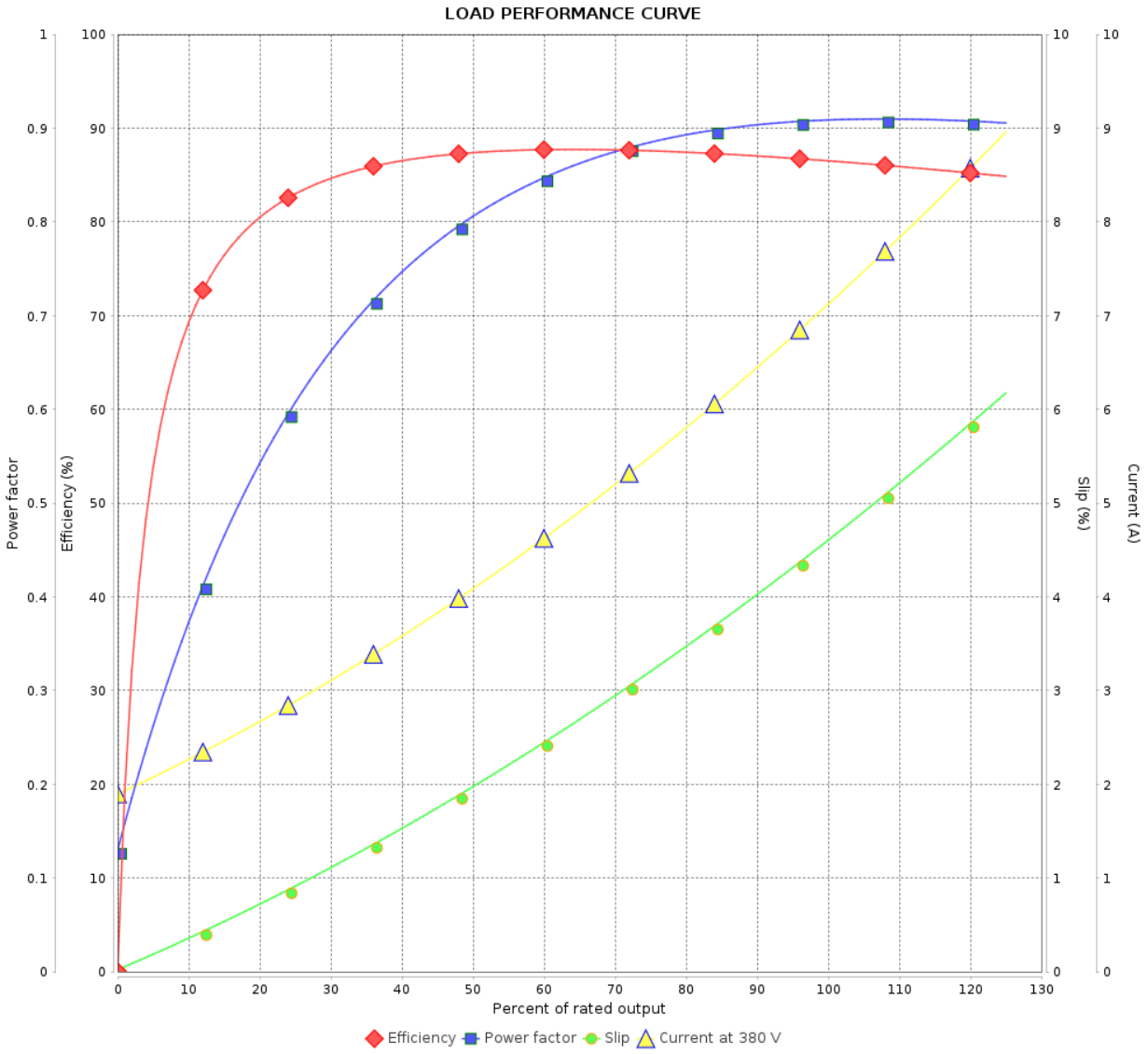
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11441757



Performance	: 380 V 50 Hz 2P IE2		
Rated current	: 7.14 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2860 rpm	Design	: B

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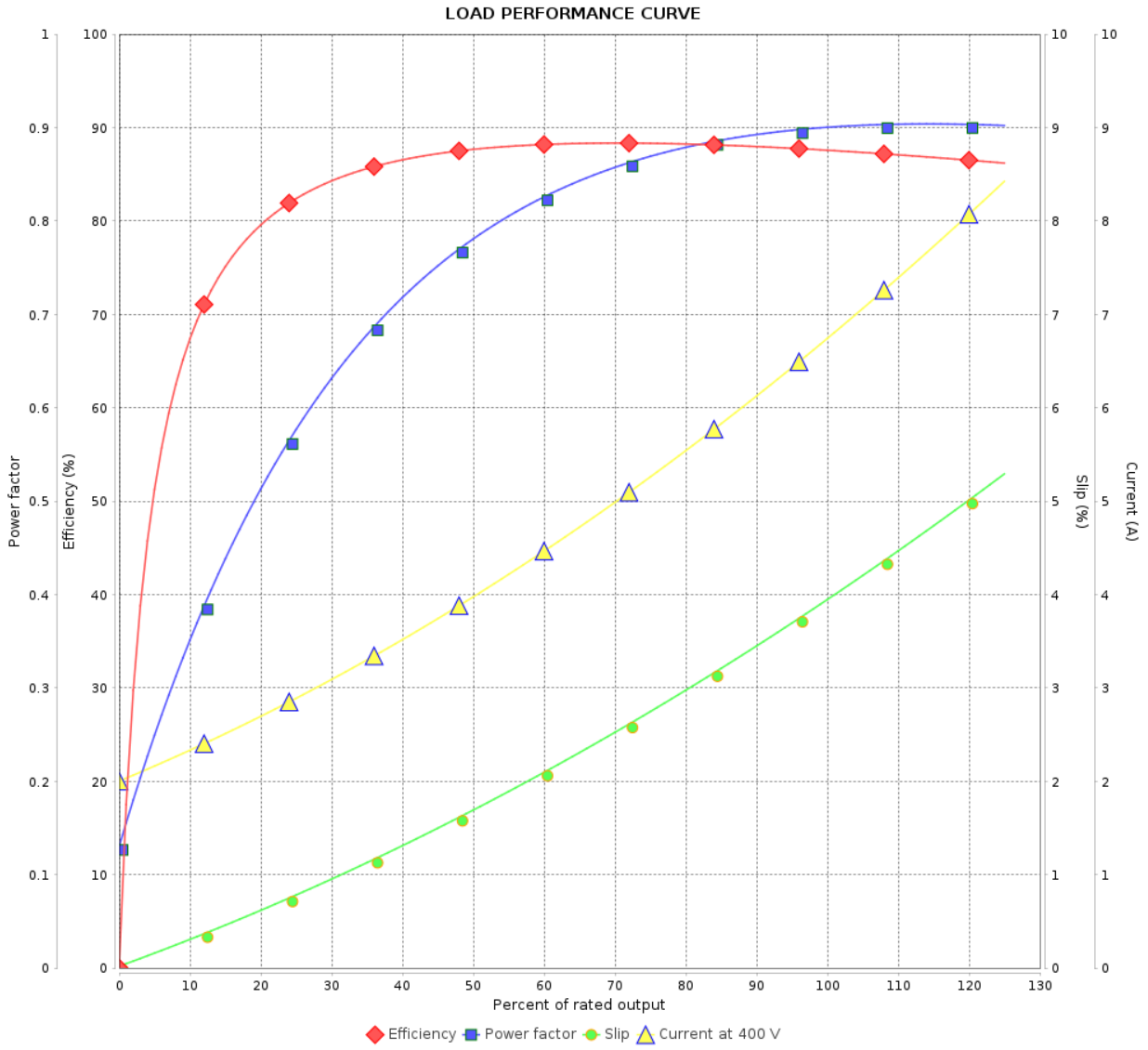
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11441757



Performance	: 400 V 50 Hz 2P IE2

Rated current	: 6.78 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2880 rpm	Design	: B

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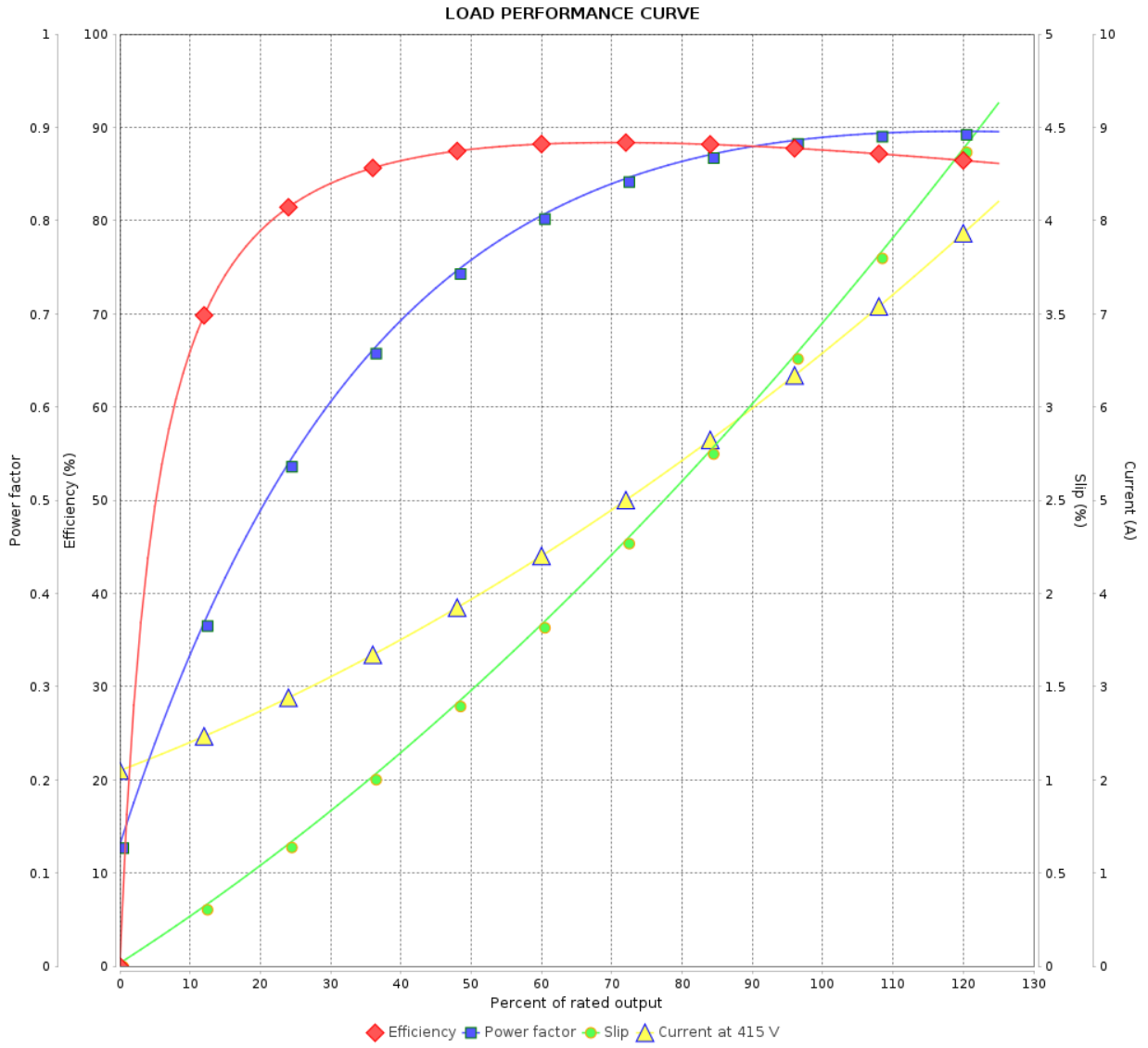
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11441757



Performance	: 415 V 50 Hz 2P IE2

Rated current	: 6.61 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2895 rpm	Design	: B

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