DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11440288

Frame	: 284/6TSC	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	: 178 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.1419 kgm²
Design	: B		

Output [HP]		30	25	25	25	30	30	30
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]		68.4/34.2	34.2	32.8	32.0	42.0	39.6	38.2
L. R. Amperes [A]		431/216	202	220	231	206	218	229
LRC [A]		6.3x(Code G)	5.9x(Code F)	6.7x(Code G)	7.2x(Code H)	4.9x(Code E)	5.5x(Code F)	6.0x(Code F)
No load current [A]		18.2/9.10	9.00	10.0	10.5	9.00	10.0	10.5
Rated speed [RPM]		3545	2940	2950	2955	2910	2930	2935
Slip [%]		1.53	2.00	1.67	1.50	3.00	2.33	2.17
Rated torque [kgfm]		6	6	6	6	7	7	7
Locked rotor torque [%]		200	190	220	229	160	180	190
Breakdown torque [%]		250	229	270	290	200	220	240
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	105 K	80 K	80 K	105 K	105 K	105 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		72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%	0.000				0.000		
	50%	91.7	91.0	91.1	91.2	91.7	91.7	91.7
	75%	91.7	91.5	91.5	91.8	90.2	91.0	91.7
	100%	91.7	92.4	92.4	92.4	89.5	90.2	91.0
Power Factor	25%	0.00				0.00		
	50%	0.80	0.80	0.78	0.76	0.84	0.82	0.80
	75%	0.86	0.87	0.85	0.84	0.88	0.87	0.86
	100%	0.88	0.89	0.88	0.87	0.89	0.89	0.88

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

Losses (%)	P1 (0,9;1,0)	8.6	7.8	7.8	7.8	11.2	10.3	9.4
	P2 (0,5;1,0)	6.7	6.1	6.1	6.1	8.7	8.1	7.4
	P3 (0,25;1,0)	5.9	5.3	5.3	5.3	7.6	7.0	6.4
	P4 (0,9;0,5)	4.2	3.8	3.8	3.8	5.4	5.0	4.6
	P5 (0,5;0,5)	2.5	2.3	2.3	2.3	3.2	3.0	2.7
	P6 (0,5;0,25)	1.5	1.4	1.4	1.4	2.0	1.8	1.7
	P7 (0,25;0,25)	0.9	0.8	0.8	0.8	1.2	1.1	1.0

		Drive end	Non drive end
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	14000 h	17000 h
Lubricant amount	:	18 g	11 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 167 kgf

Max. compression : 342 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 76.7A SF 1.10 SFA 84.4A

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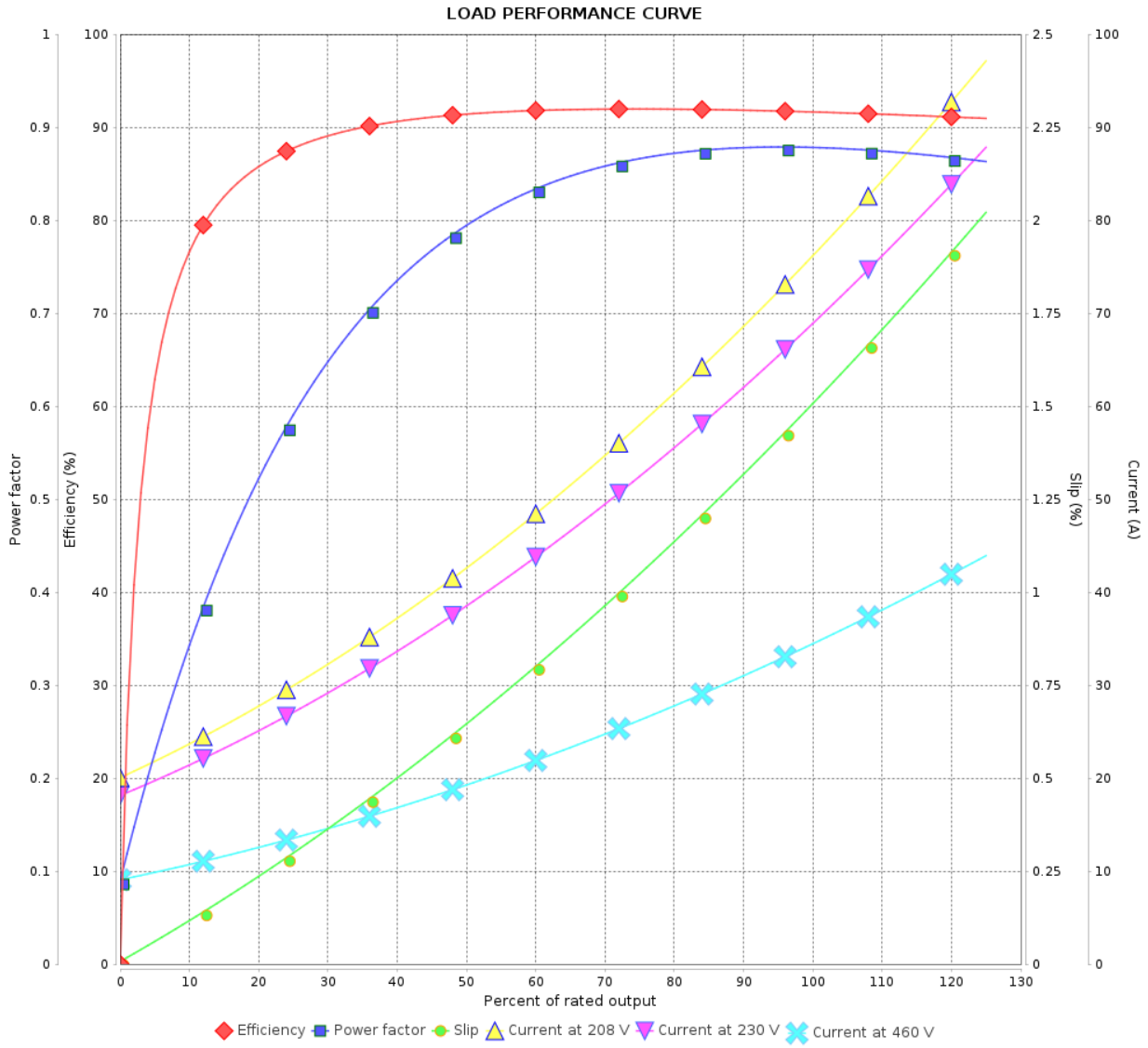
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 NEMA Premium Efficiency Three-Phase
Product code :	11440288



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 68.4/34.2 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 6 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3545 rpm	Design	: B

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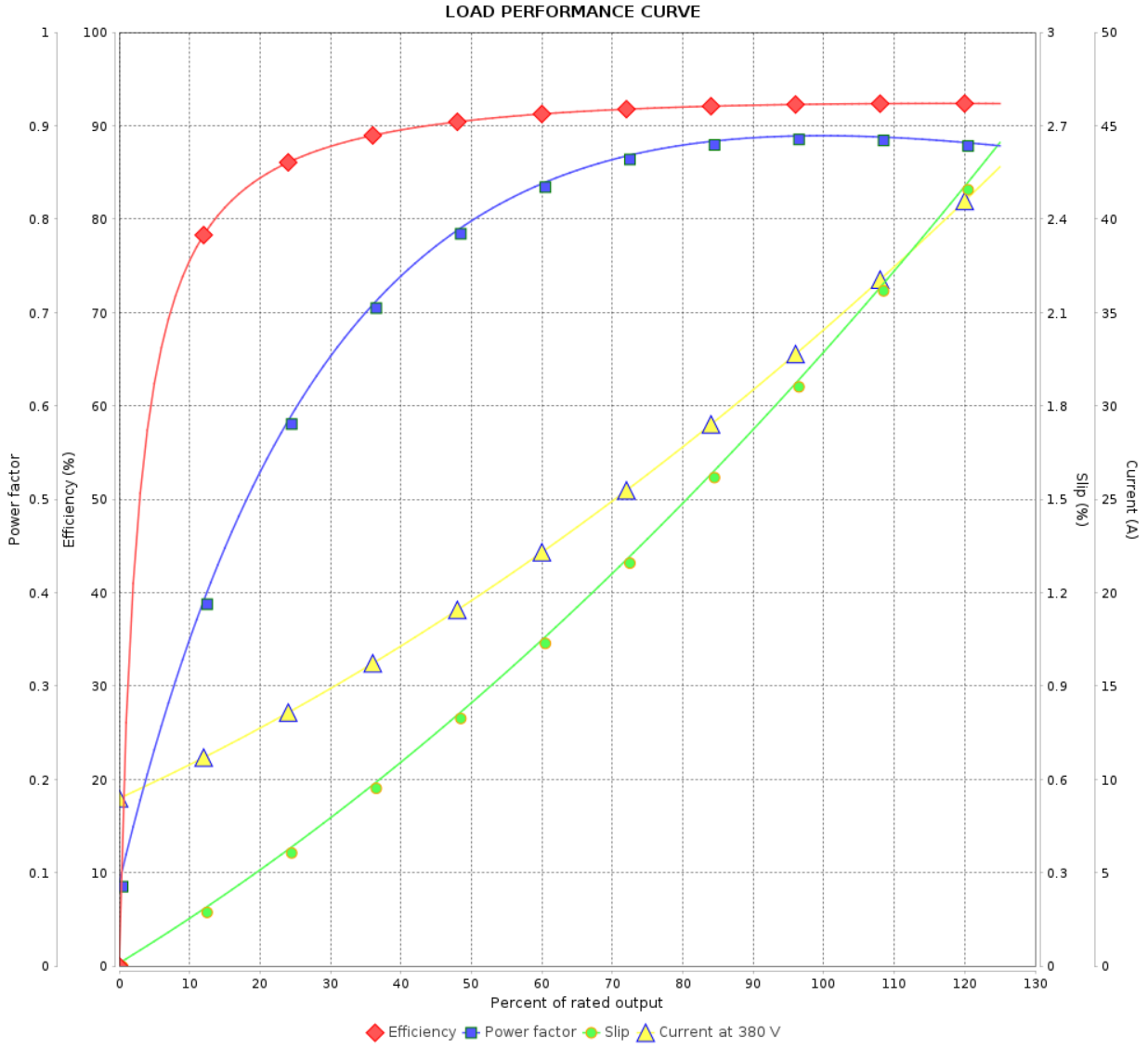
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11440288



Performance	: 380 V 50 Hz 2P IE3

Rated current	: 34.2 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 6 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 2940 rpm	Design	: B

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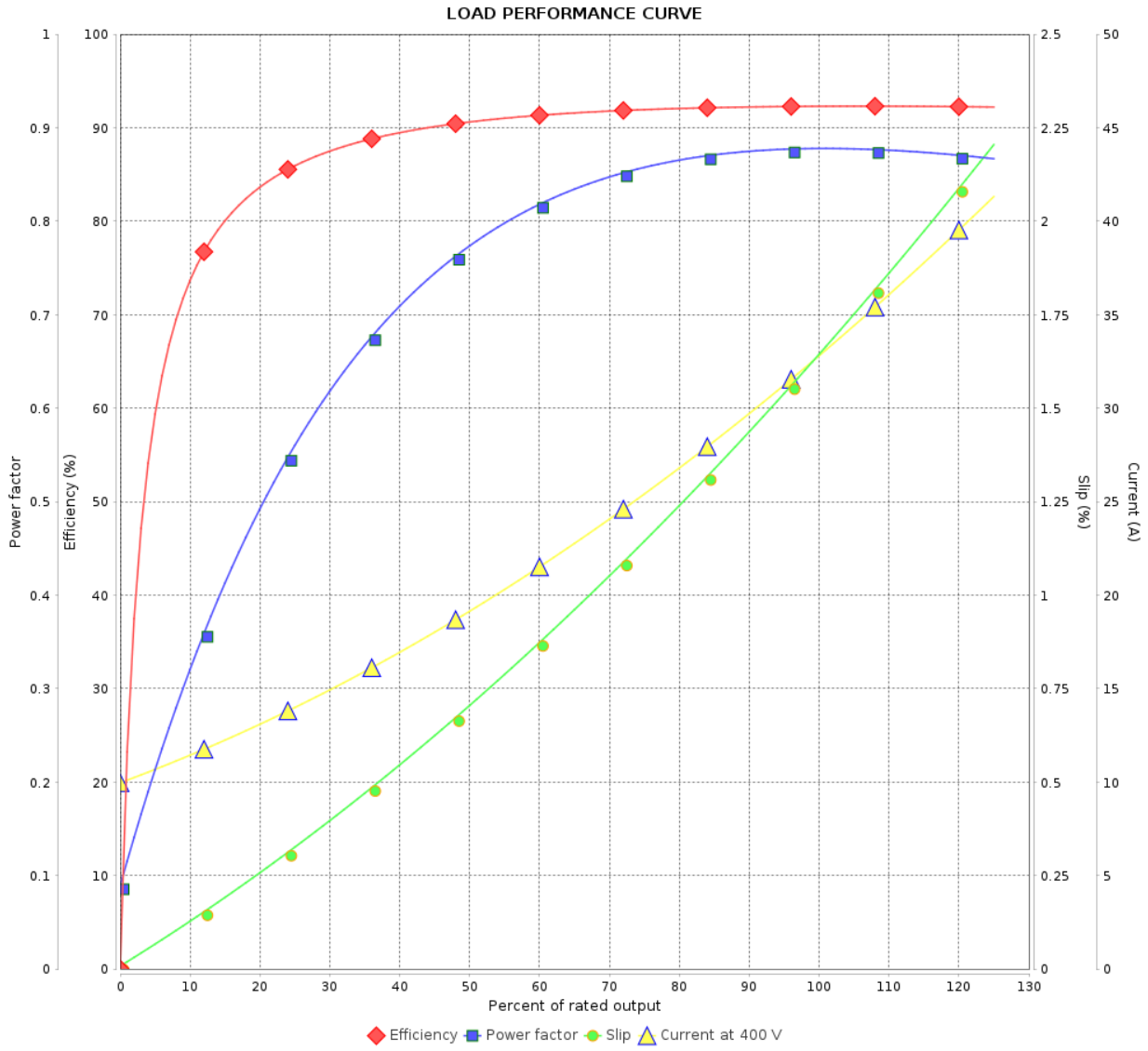
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11440288



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 32.8 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 6 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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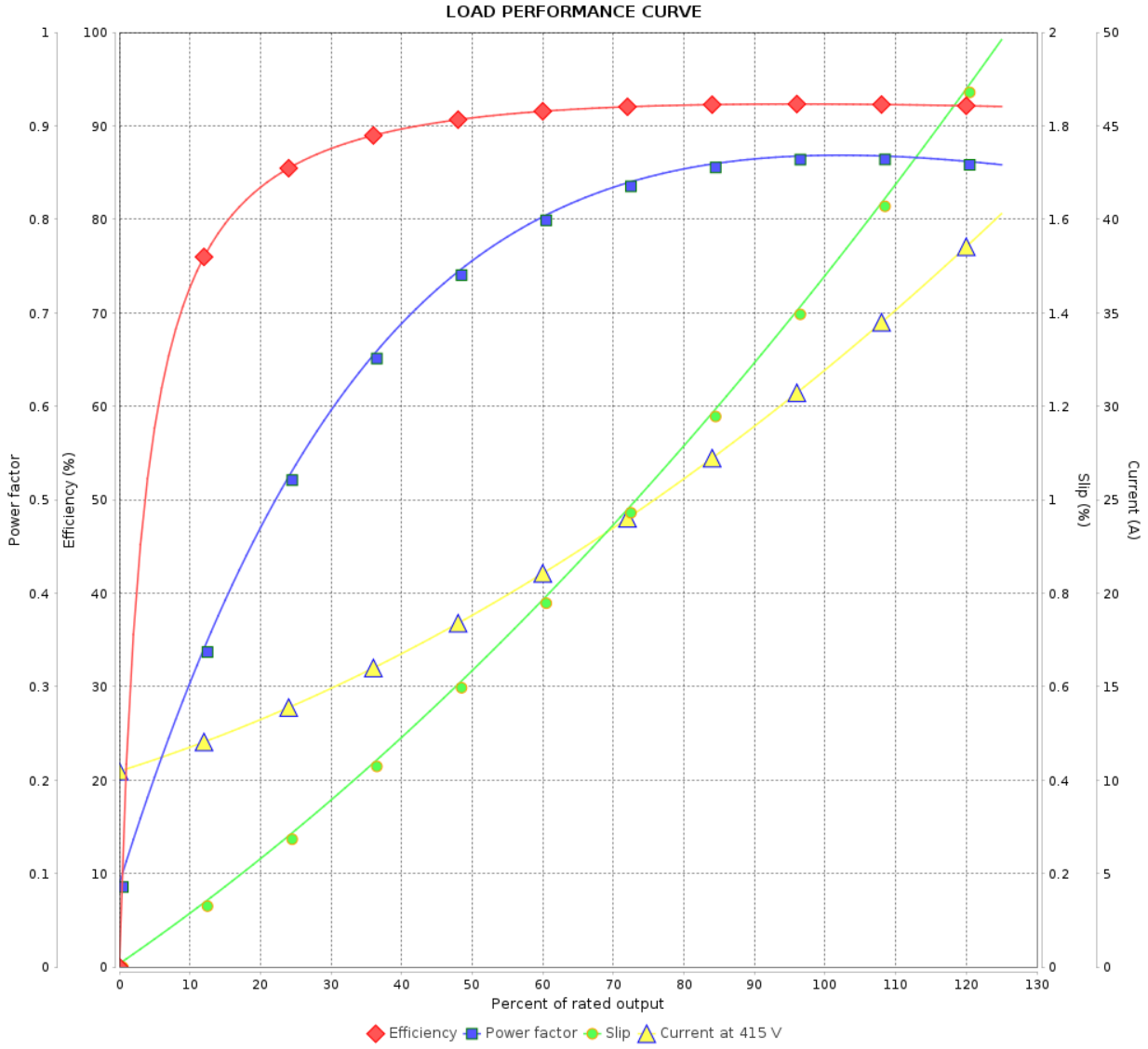
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11440288



Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 32.0 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 6 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

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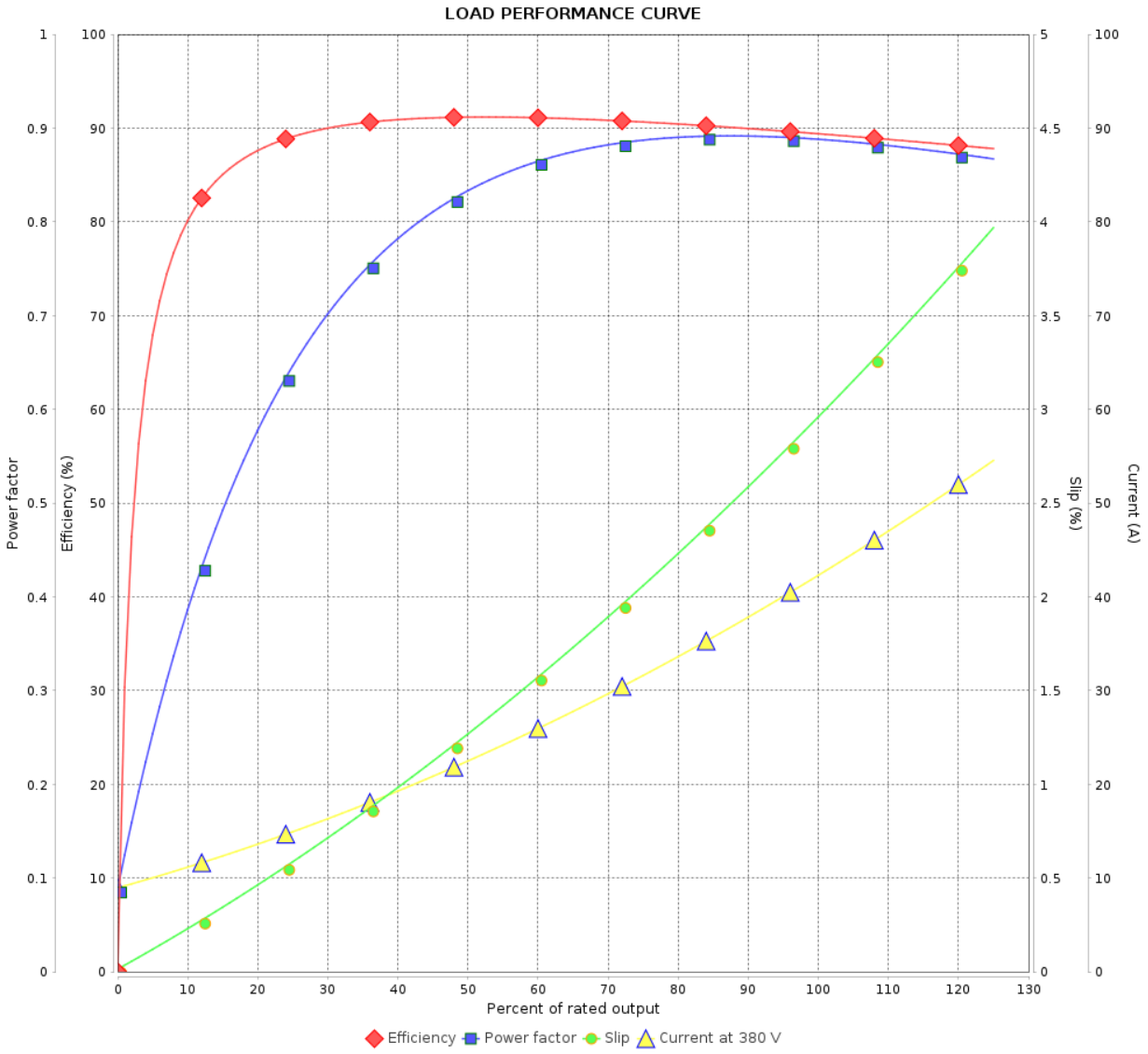
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11440288



Performance	: 380 V 50 Hz 2P		
Rated current	: 42.0 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 7 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2910 rpm	Design	: B

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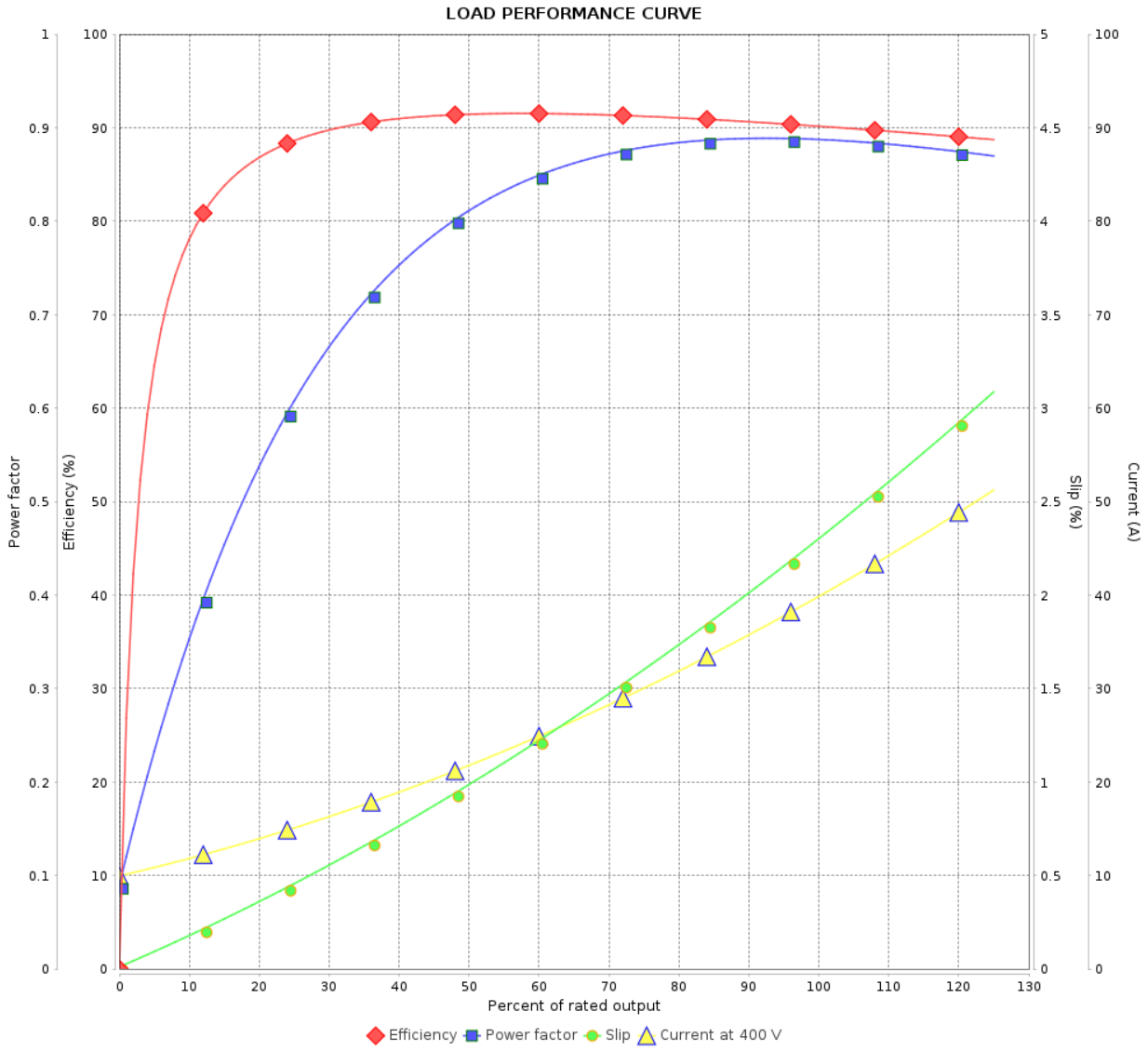
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11440288



Performance	: 400 V 50 Hz 2P IE1

Rated current	: 39.6 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 7 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2930 rpm	Design	: B

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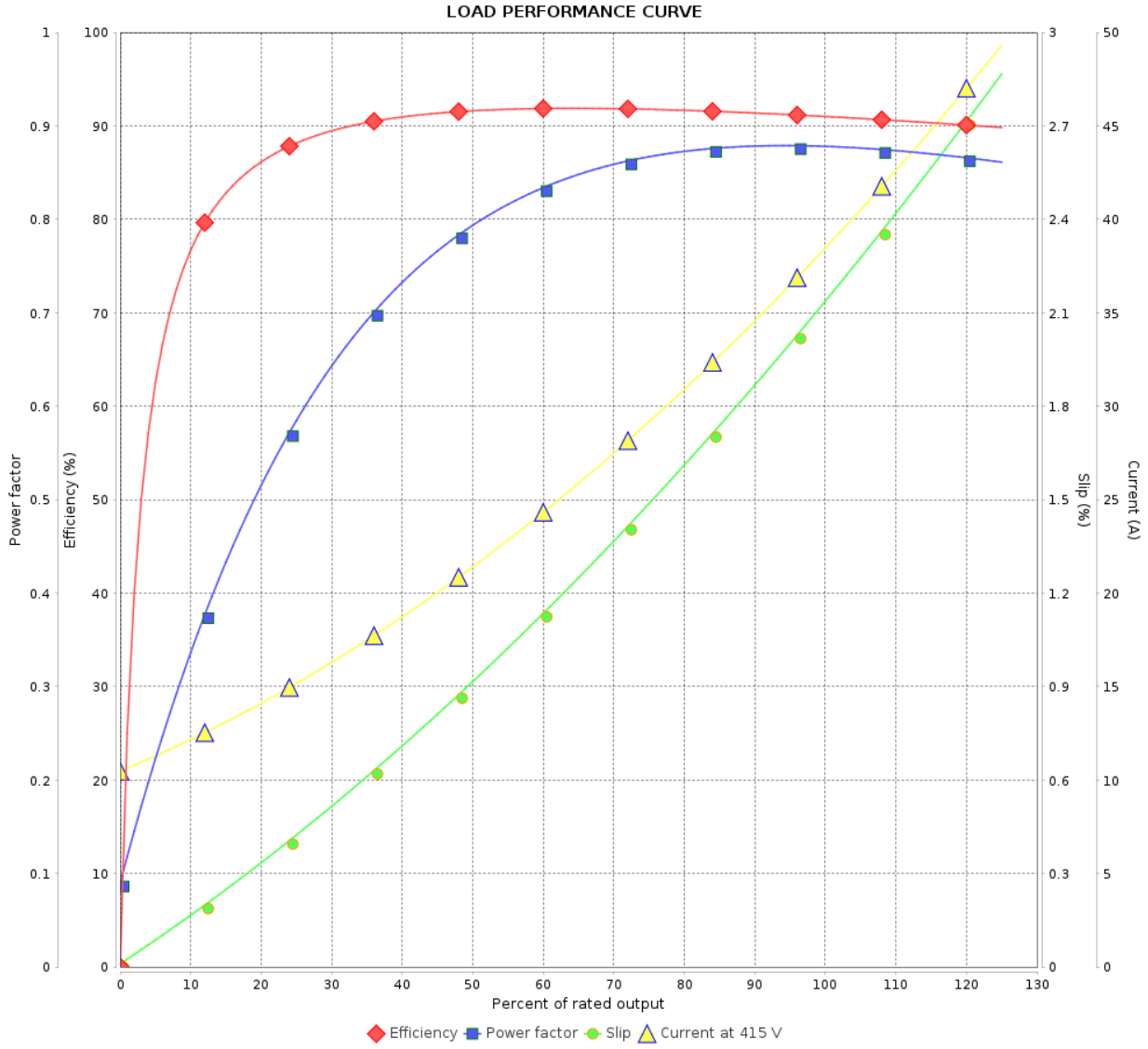
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11440288



Performance	: 415 V 50 Hz 2P IE1		
Rated current	: 38.2 A	Moment of inertia (J)	: 0.1419 kgm²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 7 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2935 rpm	Design	: B

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