DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 12357277

Frame	: 213/5JM	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	: 74.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0268 kgm²
Design	: B		

Output [HP]		10	7.5	7.5	7.5	10	10	10
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]		23.2/11.6	10.5	10.1	9.91	14.2	13.6	13.1
L. R. Amperes [A]		167/83.5	82.9	87.7	90.2	79.2	87.0	90.4
LRC [A]		7.2x(Code H)	7.9x(Code J)	8.7x(Code K)	9.1x(Code K)	5.6x(Code F)	6.4x(Code G)	6.9x(Code H)
No load current [A]		7.00/3.50	3.50	3.70	3.90	3.50	3.70	3.90
Rated speed [RPM]		3530	2935	2945	2945	2910	2920	2925
Slip [%]		1.94	2.17	1.83	1.83	3.00	2.67	2.50
Rated torque [kgfm]		2	1	1	1	2	2	2
Locked rotor torque [%]		220	220	240	260	170	180	200
Breakdown torque [%]		290	300	340	360	220	250	270
Service factor		1.25	1.25	1.25	1.25	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		27s (cold) 15s (hot)	30s (cold) 17s (hot)	25s (cold) 14s (hot)	27s (cold) 15s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)
Noise level²		68.0 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%							
	50%	89.5	88.6	88.4	87.7	89.5	89.5	89.5
	75%	90.2	89.6	89.6	89.5	89.5	89.5	89.5
	100%	90.2	89.5	89.5	89.8	88.5	88.5	88.5
Power Factor	25%							
	50%	0.79	0.75	0.72	0.70	0.83	0.81	0.79
	75%	0.87	0.86	0.83	0.82	0.90	0.88	0.87
	100%	0.90	0.89	0.88	0.86	0.91	0.90	0.90

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

Losses (%)	P1 (0,9;1,0)	10.6	11.5	11.5	11.1	12.7	12.7	12.7
	P2 (0,5;1,0)	8.9	9.6	9.6	9.3	10.6	10.6	10.6
	P3 (0,25;1,0)	8.2	8.8	8.8	8.5	9.8	9.8	9.8
	P4 (0,9;0,5)	5.1	5.5	5.5	5.3	6.1	6.1	6.1
	P5 (0,5;0,5)	3.3	3.5	3.5	3.4	3.9	3.9	3.9
	P6 (0,5;0,25)	2.0	2.2	2.2	2.1	2.4	2.4	2.4
	P7 (0,25;0,25)	1.3	1.4	1.4	1.3	1.5	1.5	1.5

		Drive end	Non drive end
Bearing type	:	6309 Z C3	6207 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	19000 h	40000 h
Lubricant amount	:	13 g	0 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 85 kgf

Max. compression : 163 kgf

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes
USABLE @208V 25.7A SF 1.15 SFA 29.5A

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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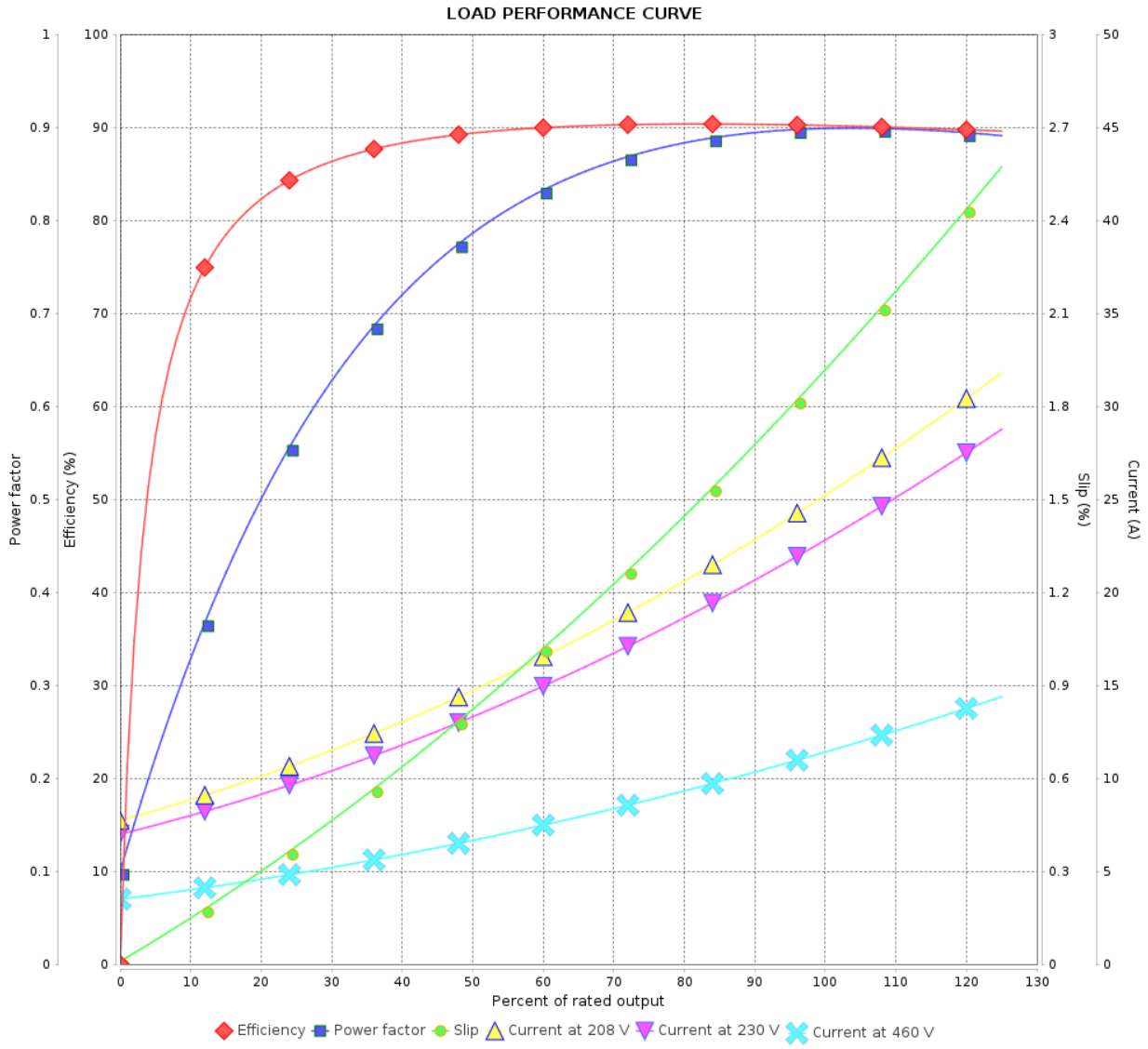
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12357277



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 23.2/11.6 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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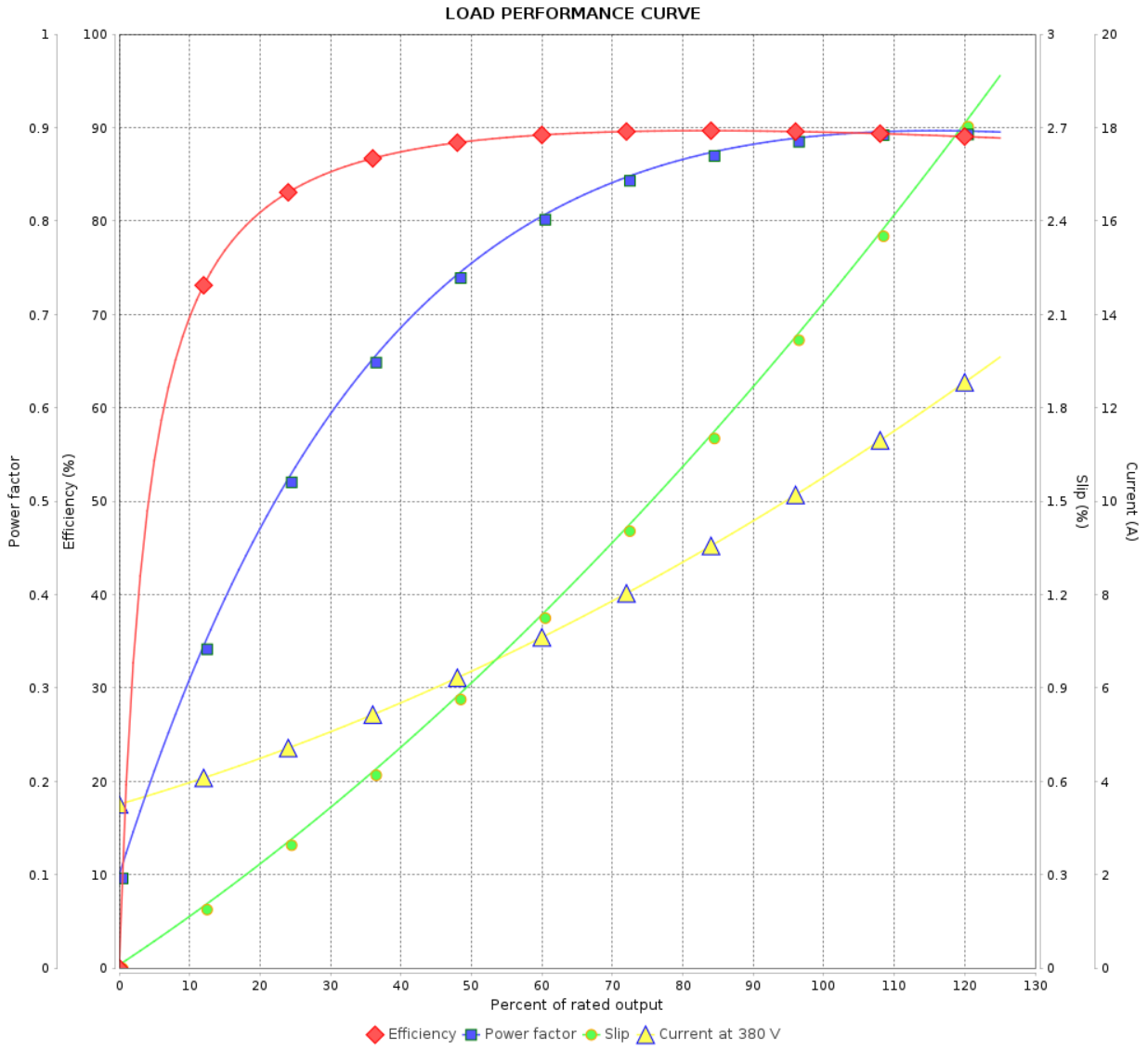
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12357277



Performance	: 380 V 50 Hz 2P IE3

Rated current	: 10.5 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 7.9	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	: 2935 rpm	Design	: B

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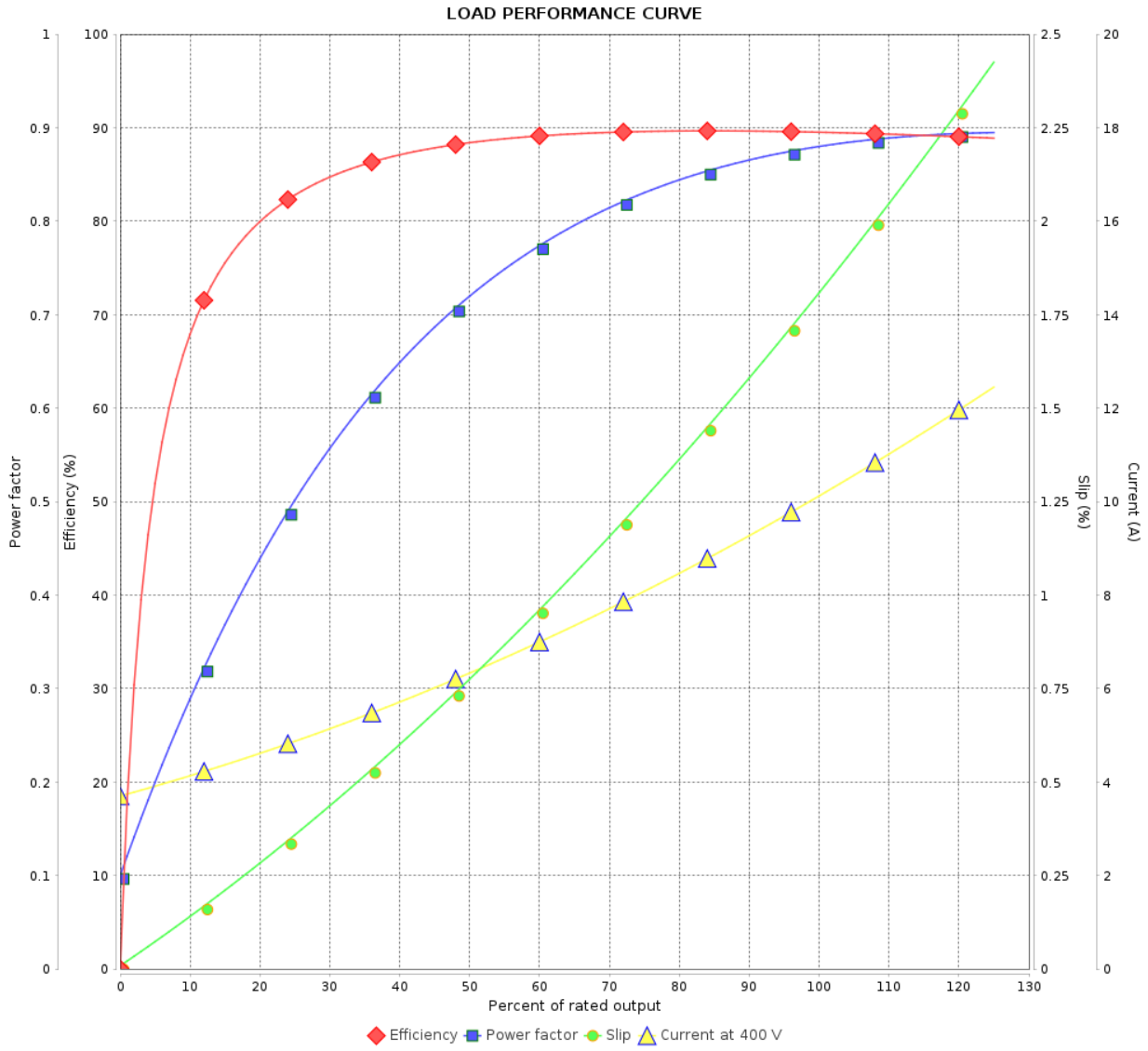
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12357277



Performance	: 400 V 50 Hz 2P IE3

Rated current	: 10.1 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 8.7	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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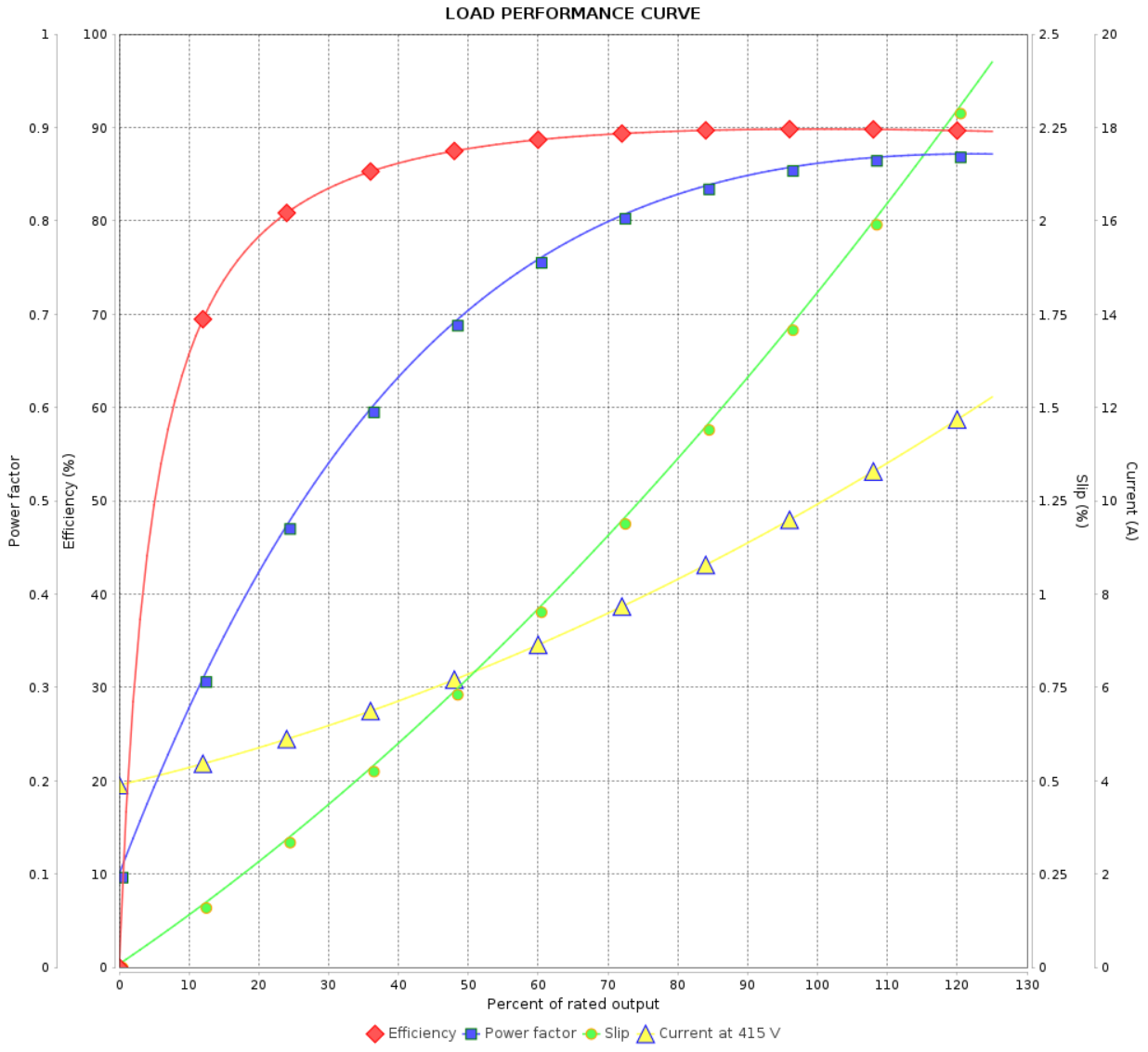
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12357277



Performance	: 415 V 50 Hz 2P IE3

Rated current	: 9.91 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 9.1	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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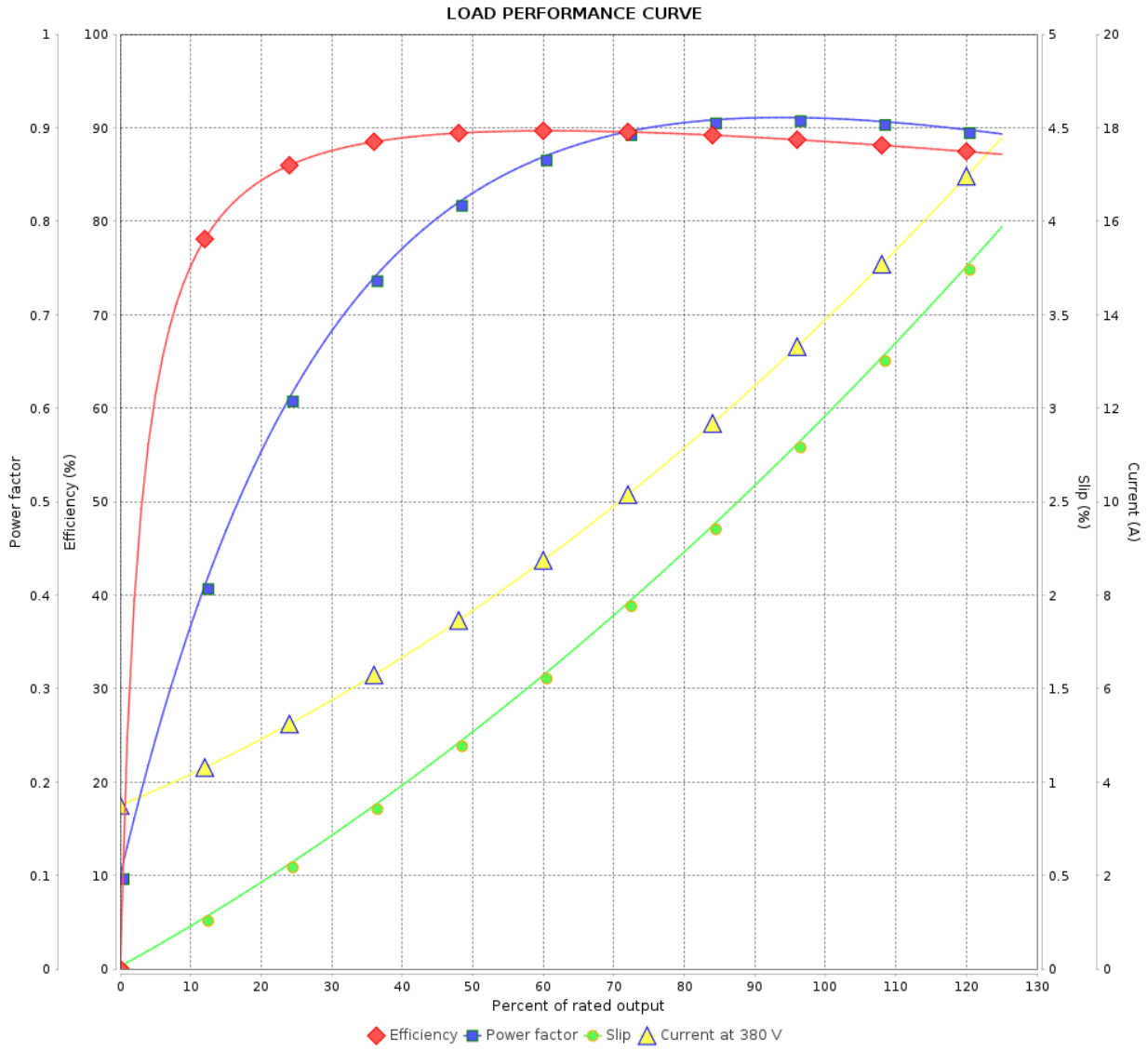
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12357277



Performance	: 380 V 50 Hz 2P IE2

Rated current	: 14.2 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2910 rpm	Design	: B

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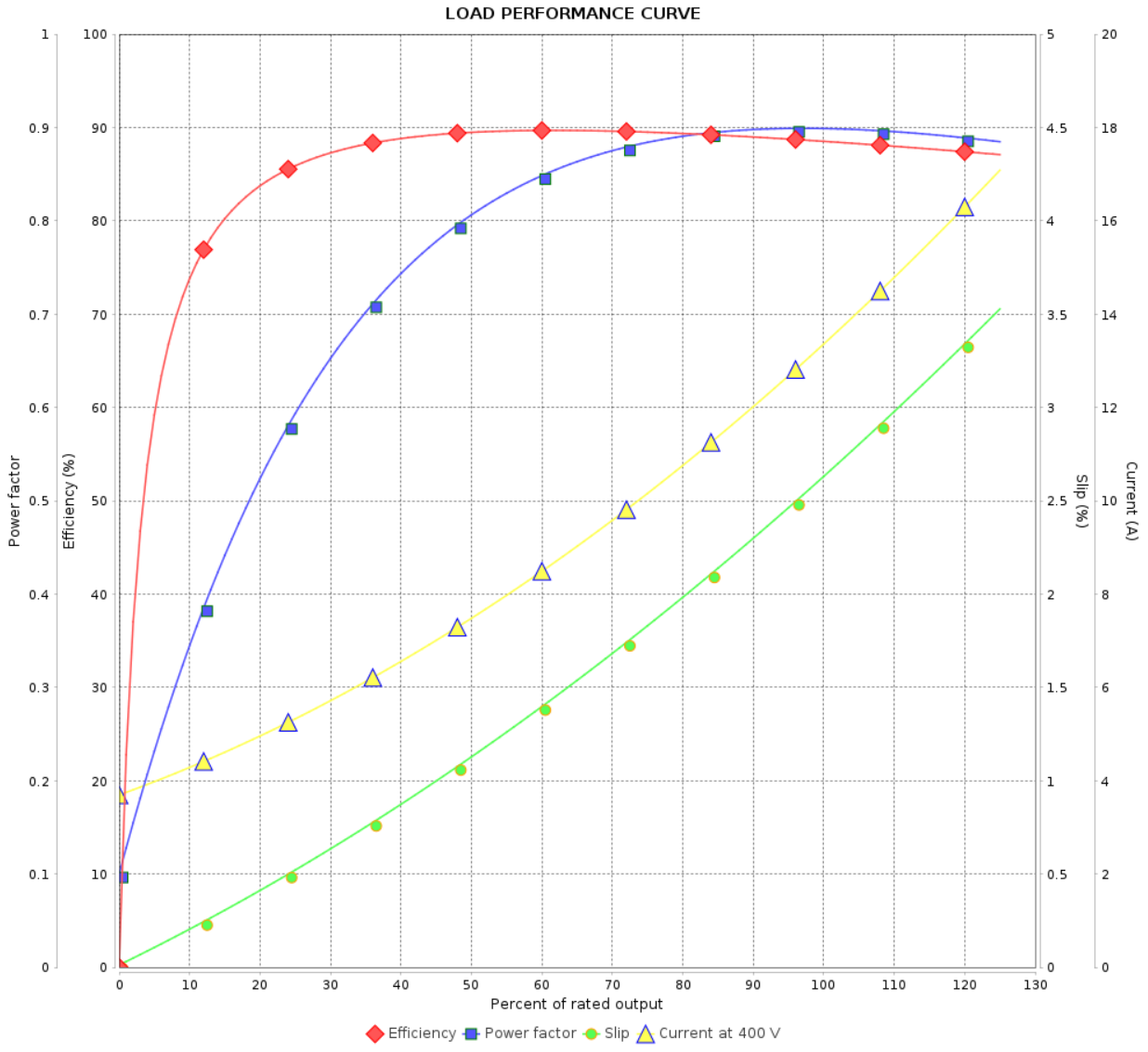
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12357277



Performance	: 400 V 50 Hz 2P IE2		
Rated current	: 13.6 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 2920 rpm	Design	: B

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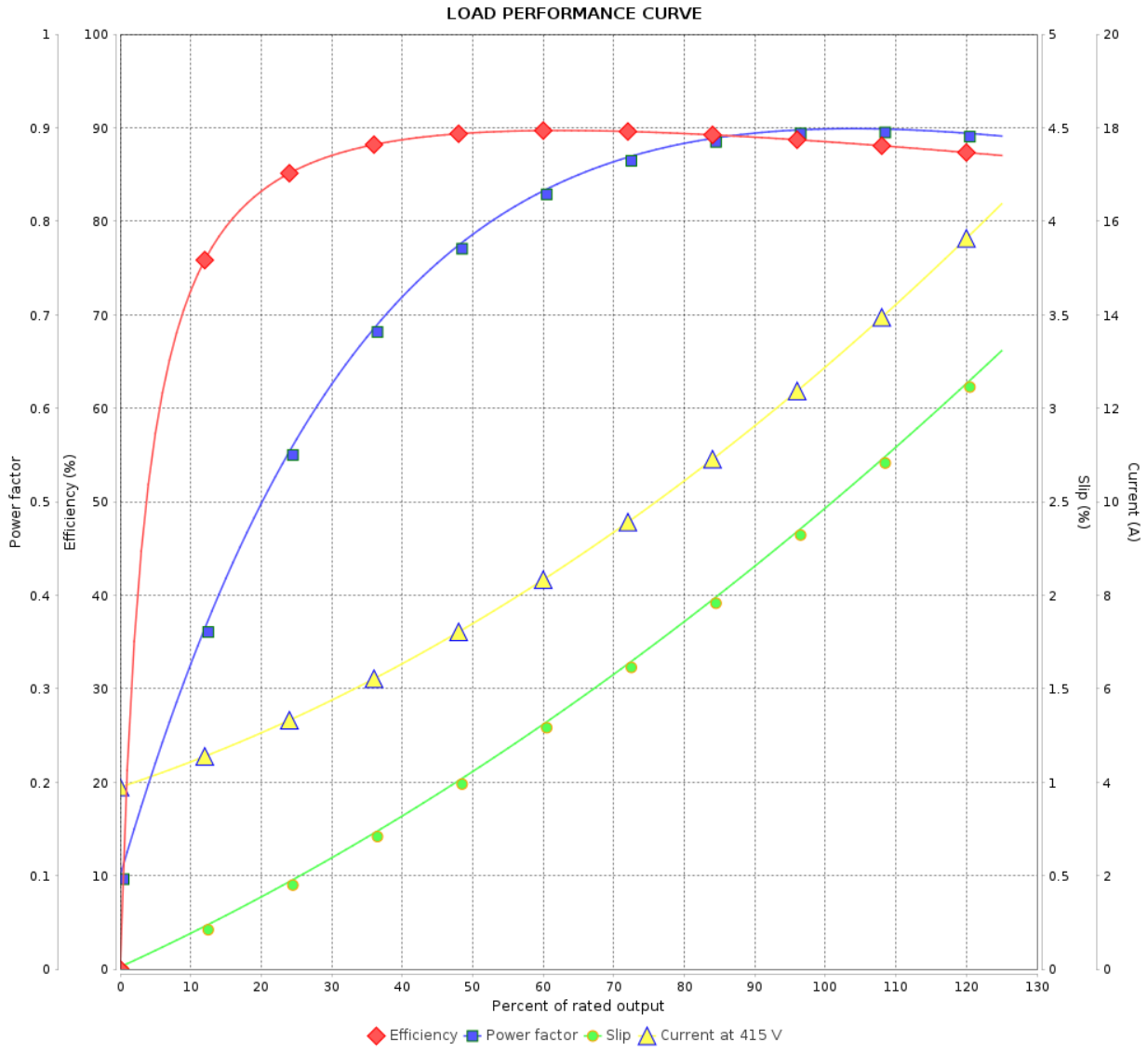
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12357277



Performance	: 415 V 50 Hz 2P IE2		
Rated current	: 13.1 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 2925 rpm	Design	: B

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