DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 13472774

Frame	: 213/5JP	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	: A		

Output [HP]		15	10	10	10	15	15	15
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]		34.9/17.4	14.9	14.7	16.5	20.9	19.9	19.3
L. R. Amperes [A]		307/153	125	138	165	136	143	149
LRC [A]		8.8x(Code K)	8.4x(Code K)	9.4x(Code L)	10.0x(Code N)	6.5x(Code G)	7.2x(Code H)	7.7x(Code J)
No load current [A]		13.2/6.60	6.70	7.40	8.00	6.70	7.40	7.90
Rated speed [RPM]		3535	2950	2955	2960	2910	2920	2930
Slip [%]		1.81	1.67	1.50	1.33	3.00	2.67	2.33
Rated torque [kgfm]		3	2	2	2	3	3	3
Locked rotor torque [%]		280	300	320	340	200	220	240
Breakdown torque [%]		350	340	380	420	270	300	300
Service factor		1.25	1.15	1.15	1.15	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		12s (cold) 7s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)	14s (cold) 8s (hot)	7s (cold) 4s (hot)	9s (cold) 5s (hot)	9s (cold) 5s (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%	89.0	89.5	89.0	88.0	88.5	89.0	89.5
	75%	90.5	90.1	90.1	90.1	89.0	89.5	90.0
	100%	91.0	90.1	90.1	90.1	89.0	89.7	90.0
Power Factor	25%							
	50%	0.73	0.70	0.64	0.48	0.80	0.76	0.83
	75%	0.82	0.80	0.76	0.61	0.87	0.85	0.83
	100%	0.87	0.85	0.82	0.70	0.90	0.89	0.88

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

Losses (%)	P1 (0,9;1,0)	9.8	10.9	10.9	10.9	12.2	11.4	11.0
	P2 (0,5;1,0)	8.0	8.8	8.8	8.8	9.9	9.2	8.9
	P3 (0,25;1,0)	7.0	7.8	7.8	7.8	8.8	8.2	7.9
	P4 (0,9;0,5)	5.2	5.8	5.8	5.8	6.5	6.0	5.8
	P5 (0,5;0,5)	3.4	3.7	3.7	3.7	4.2	3.9	3.8
	P6 (0,5;0,25)	2.3	2.6	2.6	2.6	2.9	2.7	2.6
	P7 (0,25;0,25)	1.5	1.7	1.7	1.7	1.9	1.7	1.7

		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 : 165 kgf

Max. compression : 247 kgf

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes

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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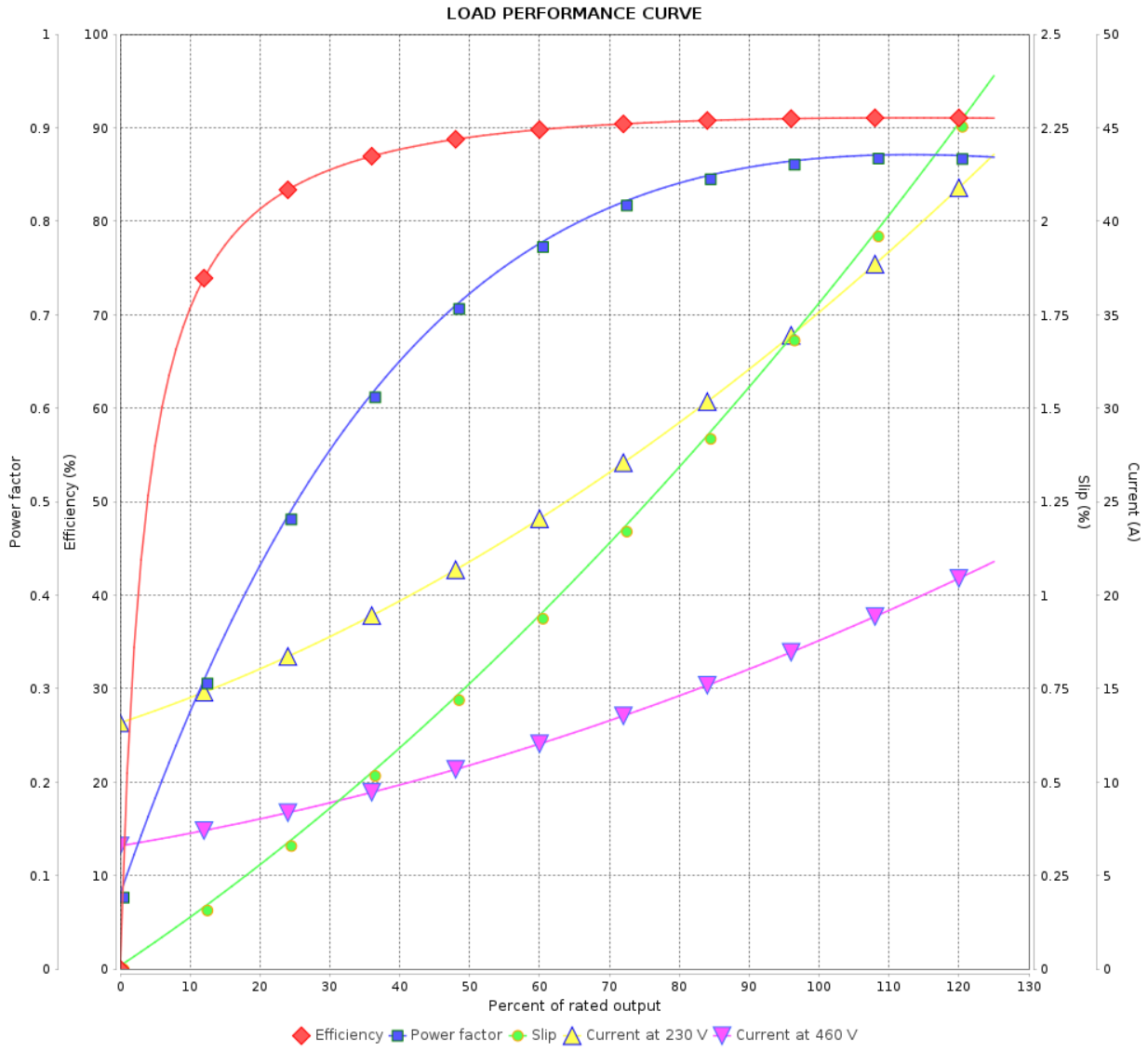
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	13472774



Performance	: 230/460 V 60 Hz 2P

Rated current	: 34.9/17.4 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 3 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3535 rpm	Design	: A

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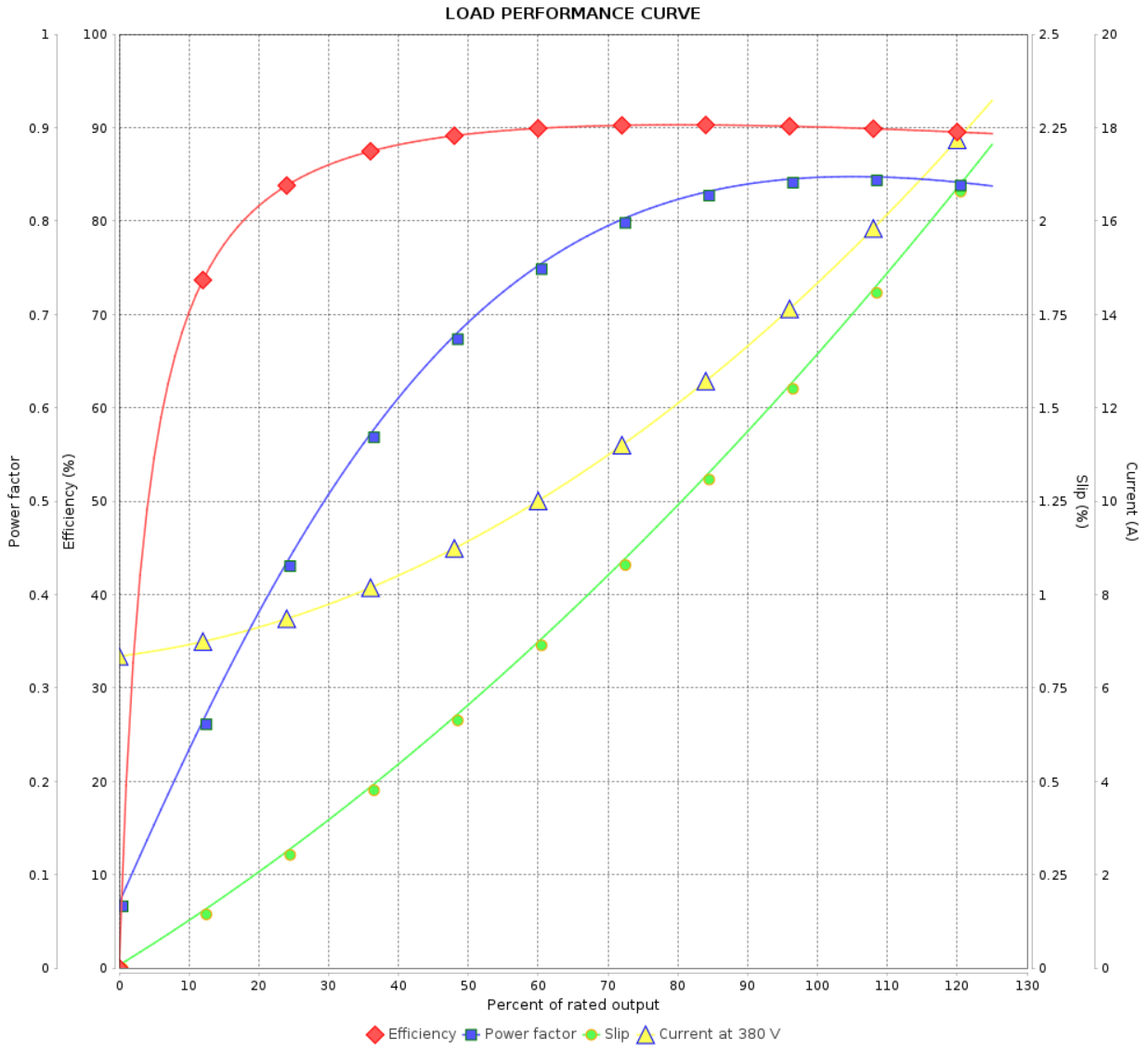
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	13472774



Performance	: 380 V 50 Hz 2P IE3

Rated current	: 14.9 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: A

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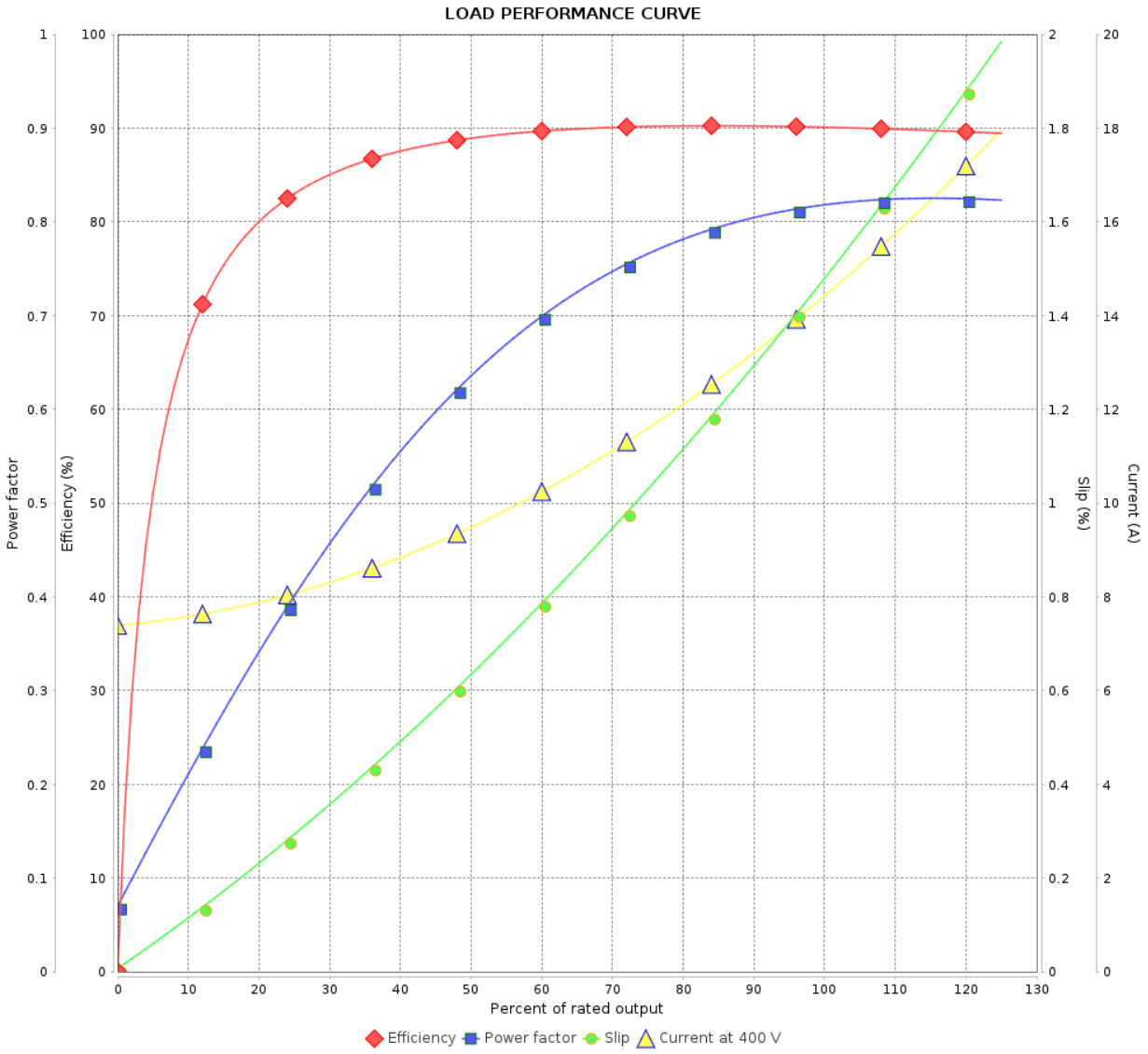
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	13472774



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 14.7 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 9.4	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.15
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: A

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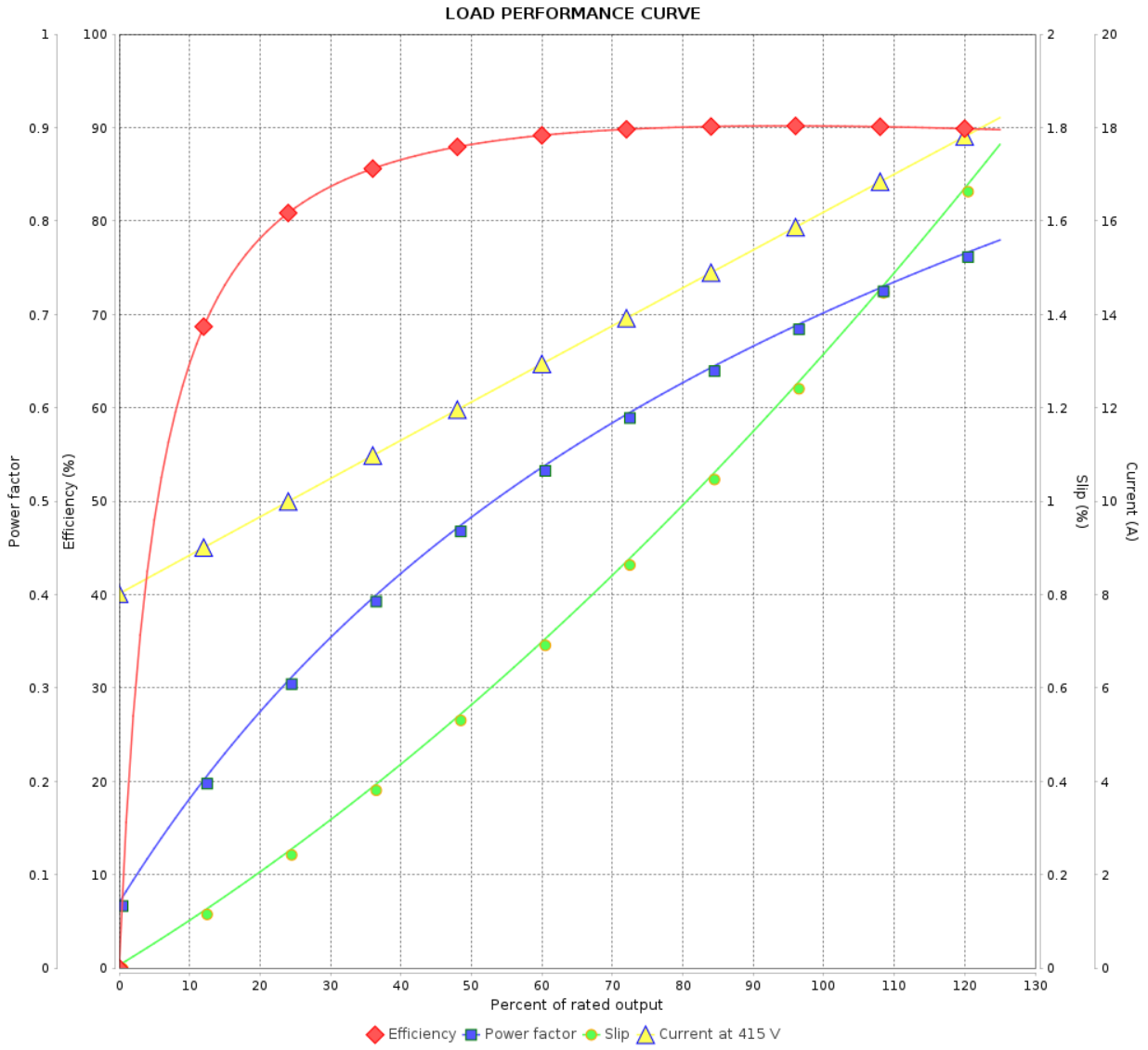
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	13472774



Performance	: 415 V 50 Hz 2P IE3

Rated current	: 16.5 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 10.0	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.15
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: A

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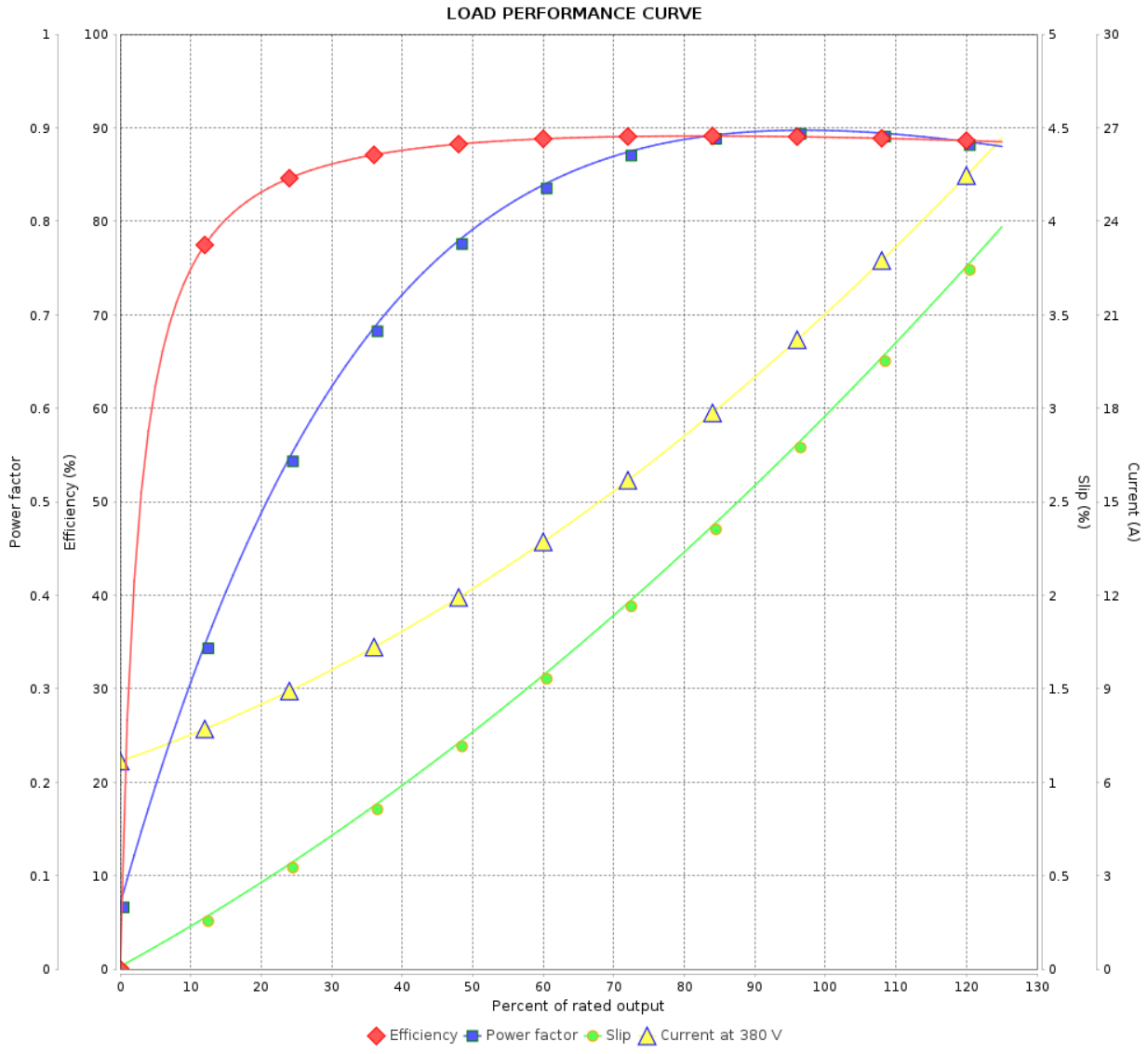
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	13472774



Performance	: 380 V 50 Hz 2P IE1		
Rated current	: 20.9 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 3 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 2910 rpm	Design	: A

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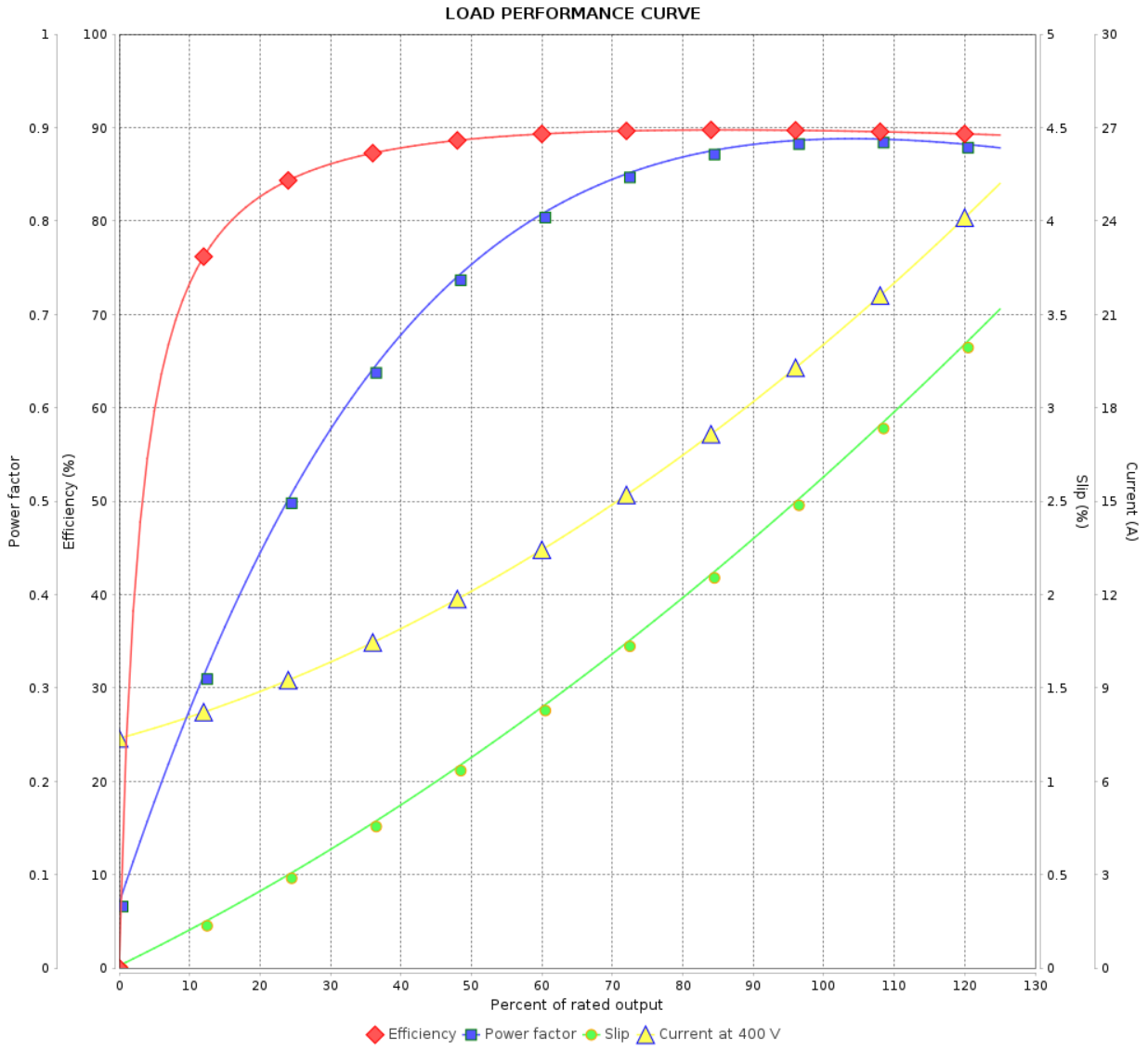
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	13472774



Performance	: 400 V 50 Hz 2P IE2

Rated current	: 19.9 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 3 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 105 K
Rated speed	: 2920 rpm	Design	: A

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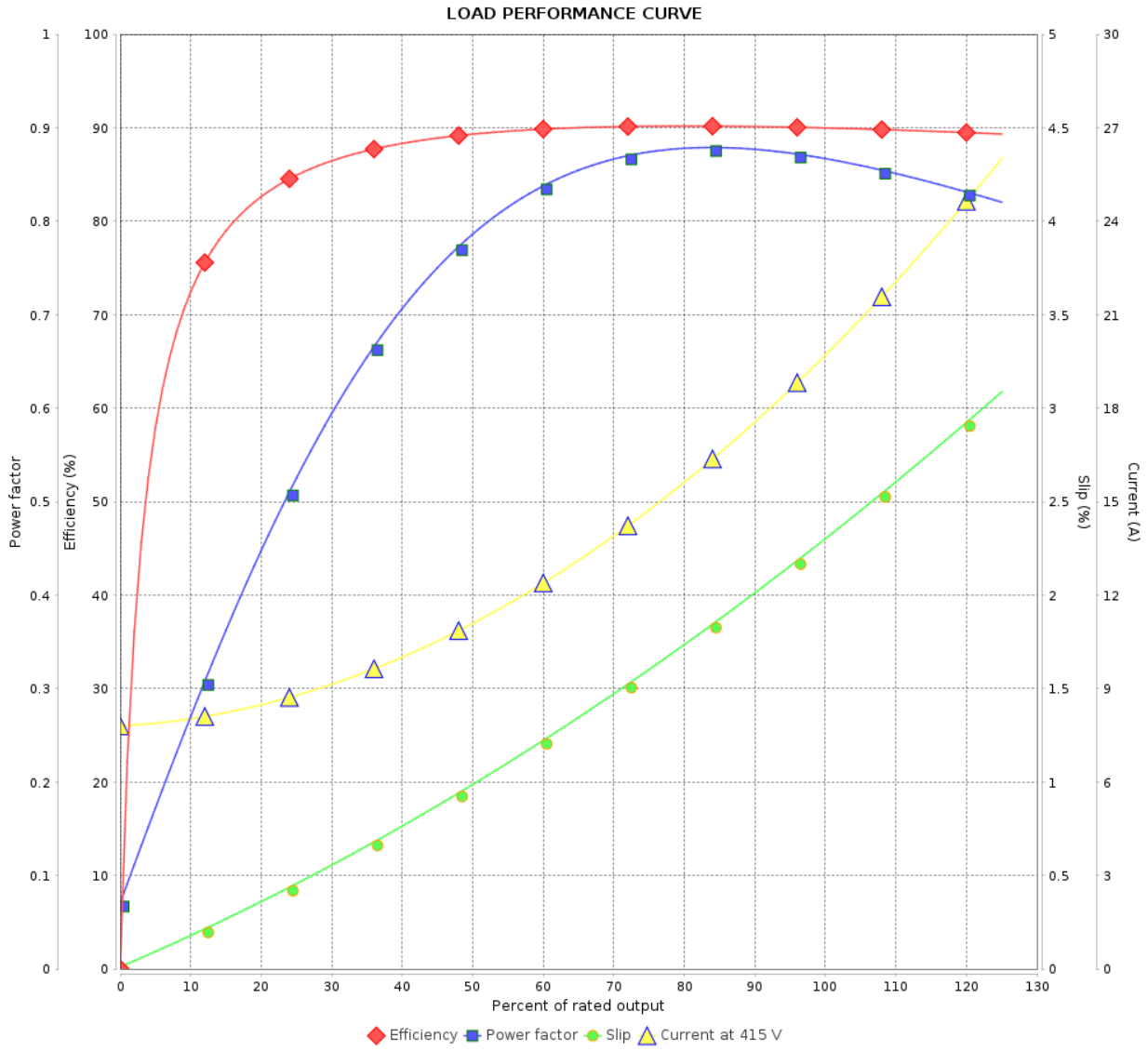
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase	Product code :	13472774



Performance	: 415 V 50 Hz 2P IE2		
Rated current	: 19.3 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 3 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 105 K
Rated speed	: 2930 rpm	Design	: A

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