

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11991851

Frame : 182/4TC	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(S1)	Rotation ¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight ³ : 42.0 kg
Protection degree : IP55	Moment of inertia (J) : 0.0095 kgm ²
Design : A	

Output [HP]	7.5	5.5	5.5	5.5	7.5	7.5	7.5
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]	17.5/8.76	7.84	7.62	7.47	10.9	10.3	10.0
L. R. Amperes [A]	144/71.8	65.1	69.3	71.7	68.7	72.1	74.0
LRC [A]	8.2x(Code J)	8.3x(Code J)	9.1x(Code K)	9.6x(Code L)	6.3x(Code G)	7.0x(Code H)	7.4x(Code H)
No load current [A]	5.80/2.90	2.70	3.00	3.20	2.70	3.00	3.20
Rated speed [RPM]	3485	2900	2910	2915	2810	2840	2860
Slip [%]	3.19	3.33	3.00	2.83	6.33	5.33	4.67
Rated torque [kgfm]	1.56	1.38	1.37	1.37	1.94	1.92	1.90
Locked rotor torque [%]	270	310	350	370	220	250	270
Breakdown torque [%]	330	360	390	430	260	280	310
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	30s (cold) 17s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	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%						
	50%	88.5	85.5	85.9	86.2	87.0	88.0
	75%	89.5	87.0	87.6	88.1	87.0	88.5
	100%	89.5	88.1	88.1	88.7	84.5	87.0
Power Factor	25%						
	50%	0.75	0.70	0.66	0.63	0.80	0.74
	75%	0.84	0.82	0.79	0.77	0.88	0.84
	100%	0.88	0.88	0.86	0.84	0.91	0.88

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

Losses (%)	P1 (0,9;1,0)	11.4	11.4	11.4	11.4	11.4	11.4	11.4
	P2 (0,5;1,0)	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	P3 (0,25;1,0)	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	P4 (0,9;0,5)	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	P5 (0,5;0,5)	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	P6 (0,5;0,25)	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	P7 (0,25;0,25)	1.3	1.3	1.3	1.3	1.3	1.3	1.3

Bearing type : 6207 ZZ	Non drive end : 6206 ZZ	Foundation loads
Sealing : V'Ring	V'Ring	Max. traction : 100 kgf
Lubrication interval : -	-	Max. compression : 147 kgf
Lubricant amount : -	-	
Lubricant type : 00088		

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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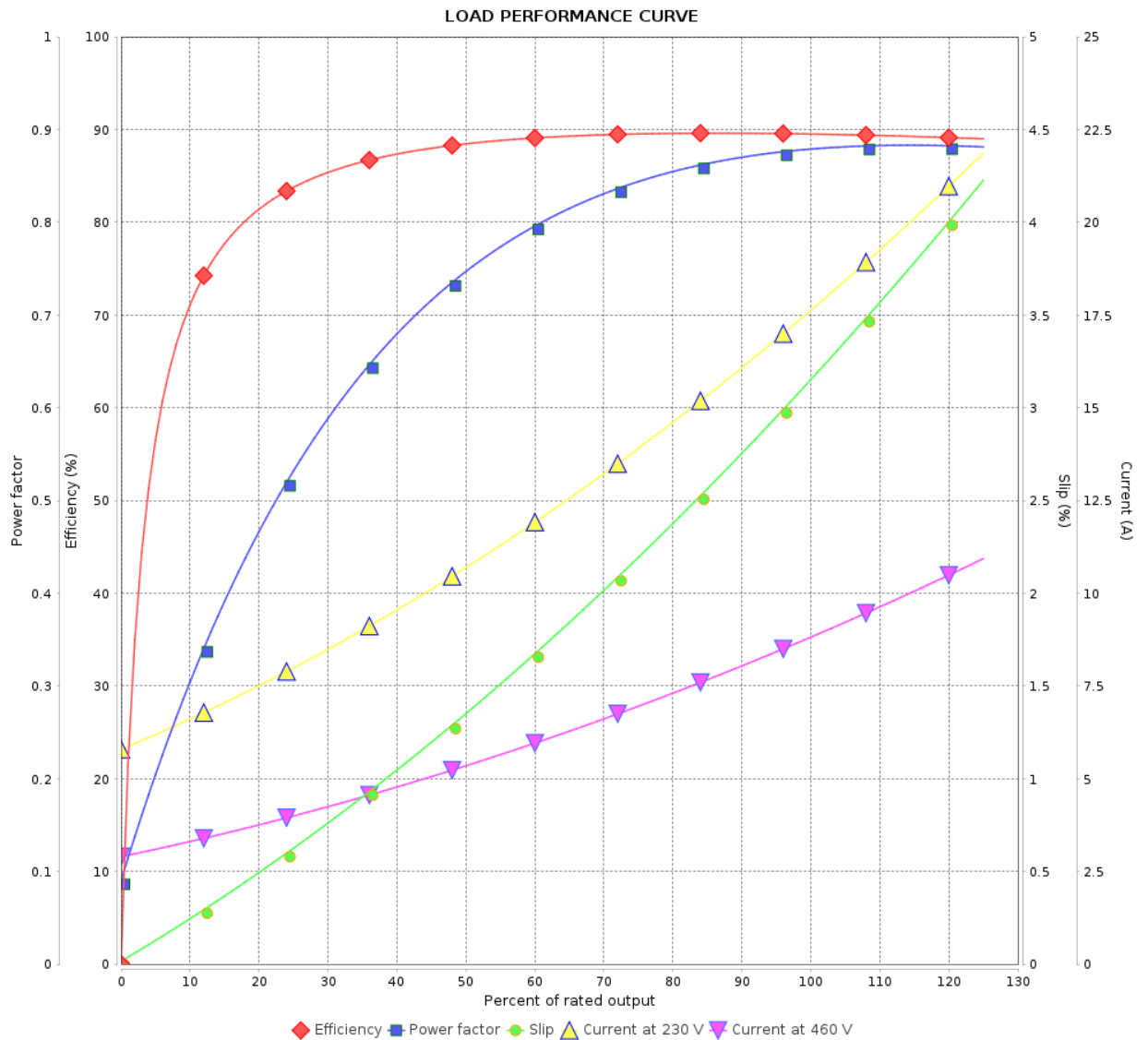
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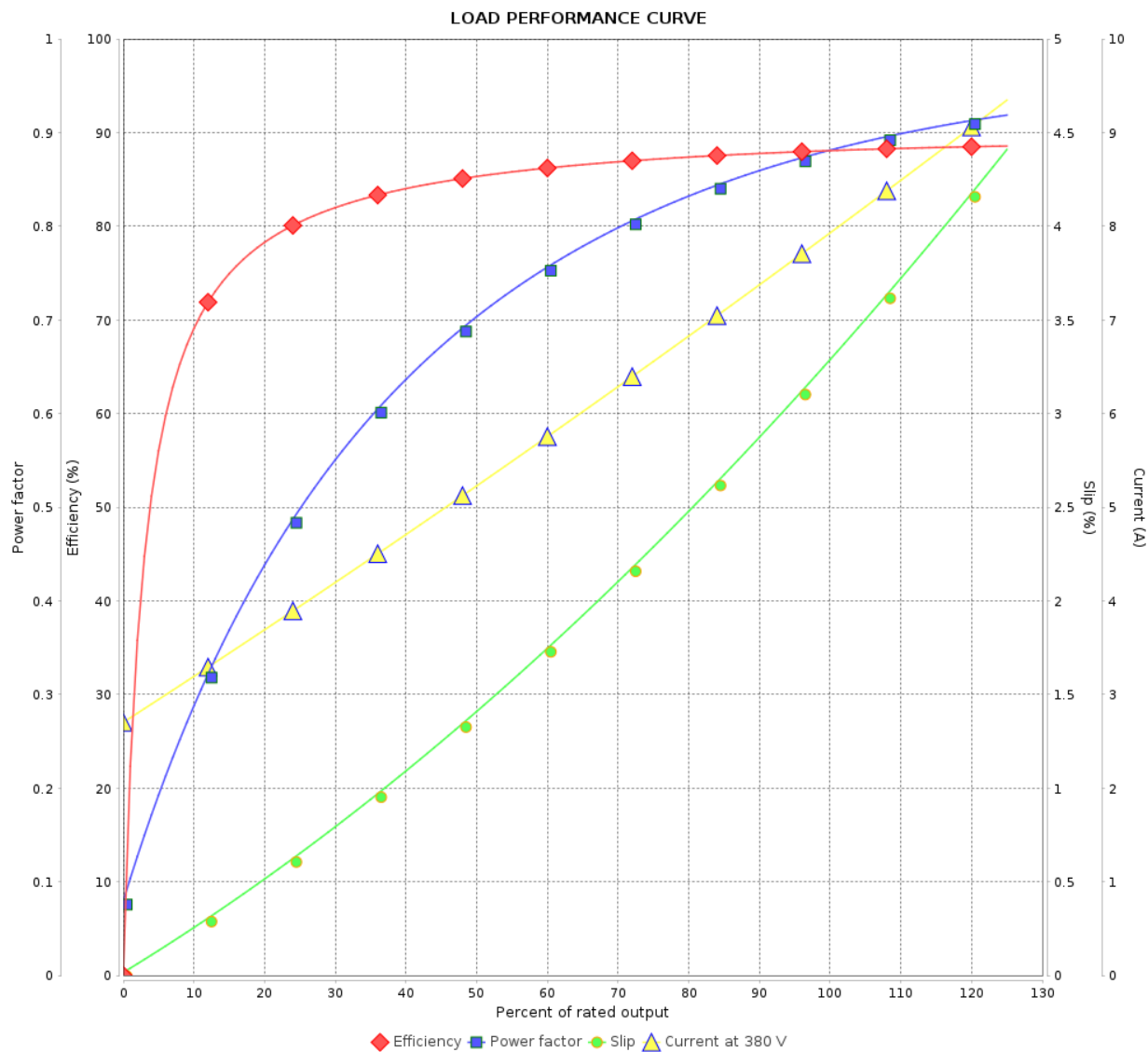
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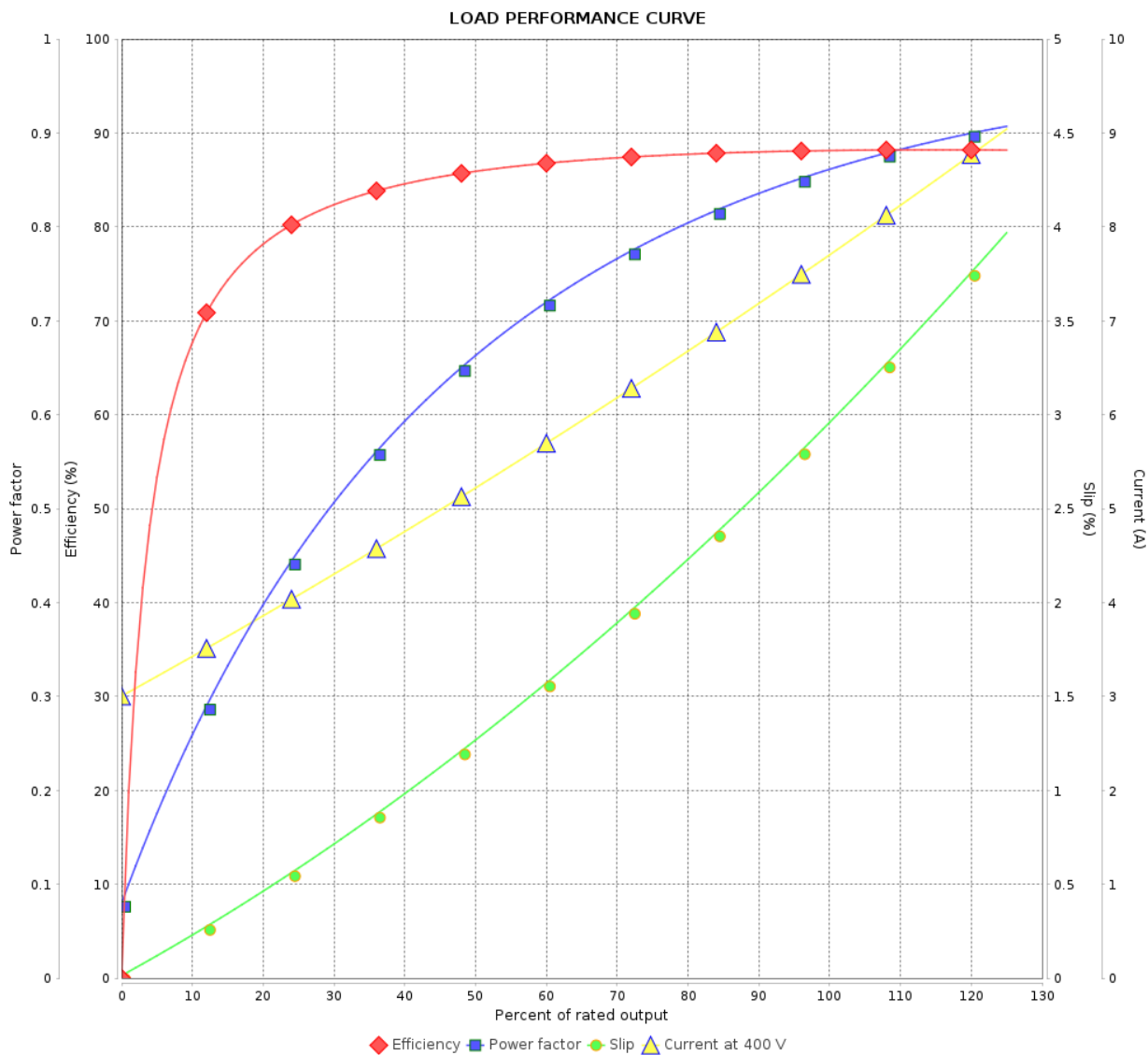
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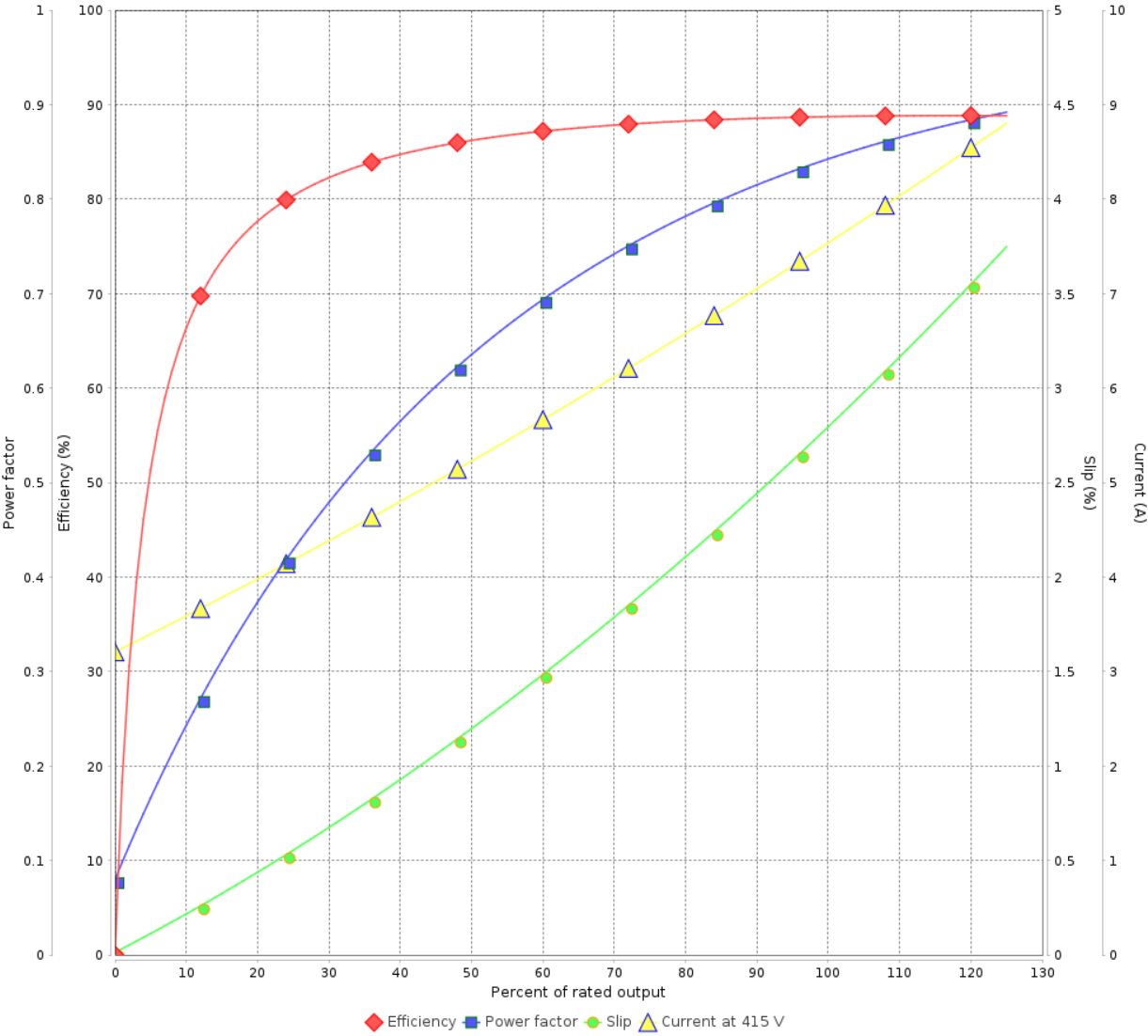
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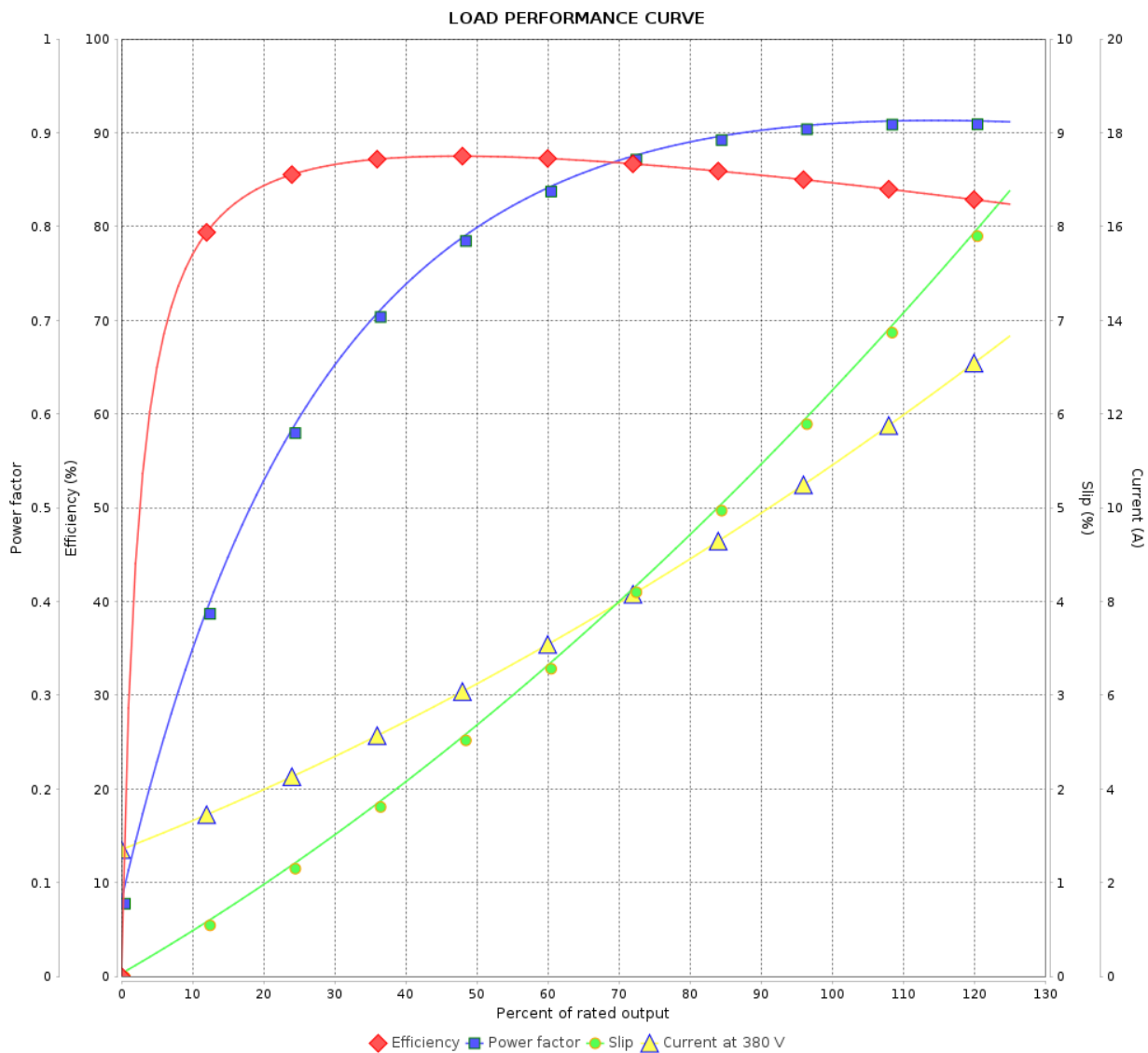
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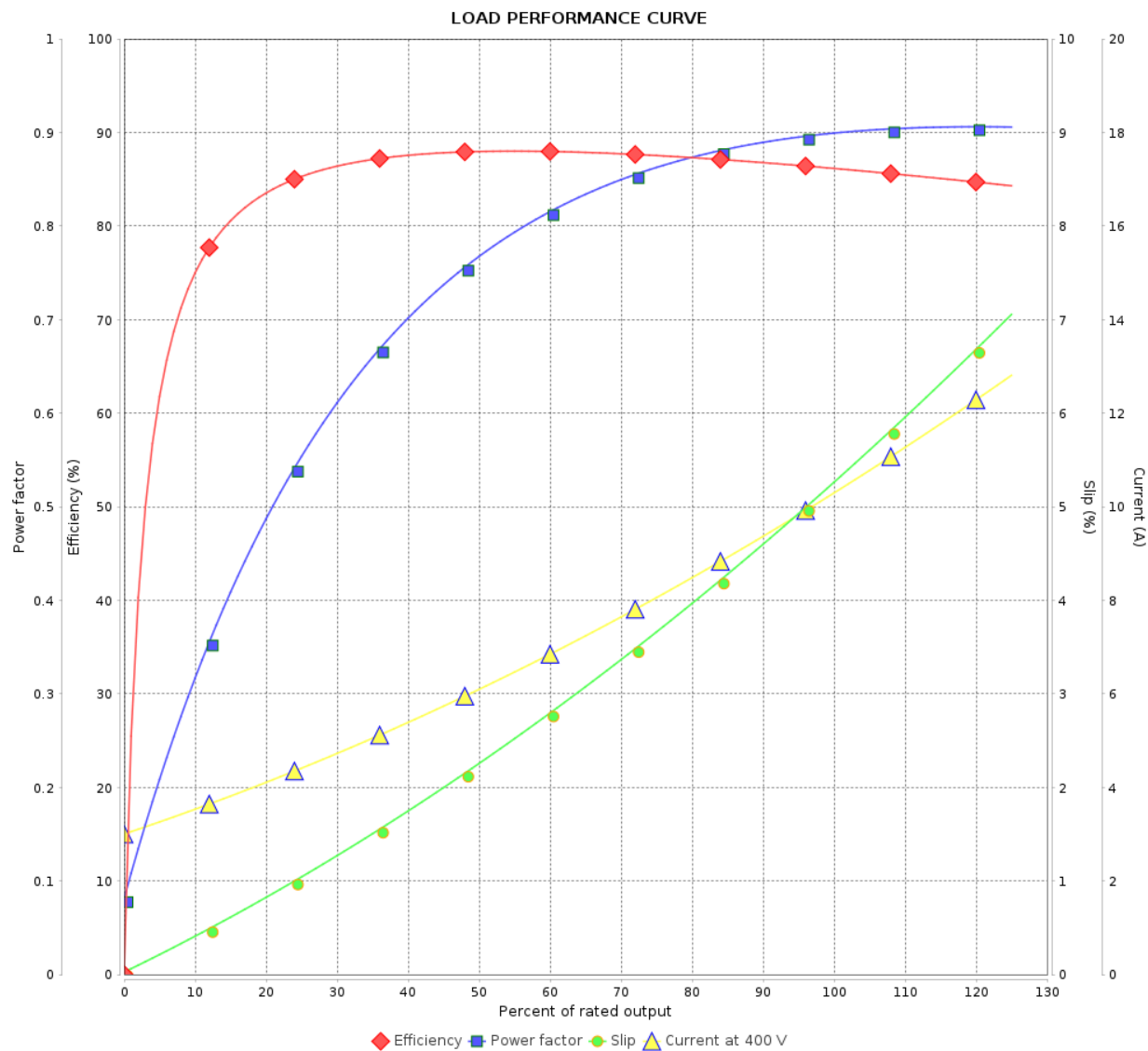
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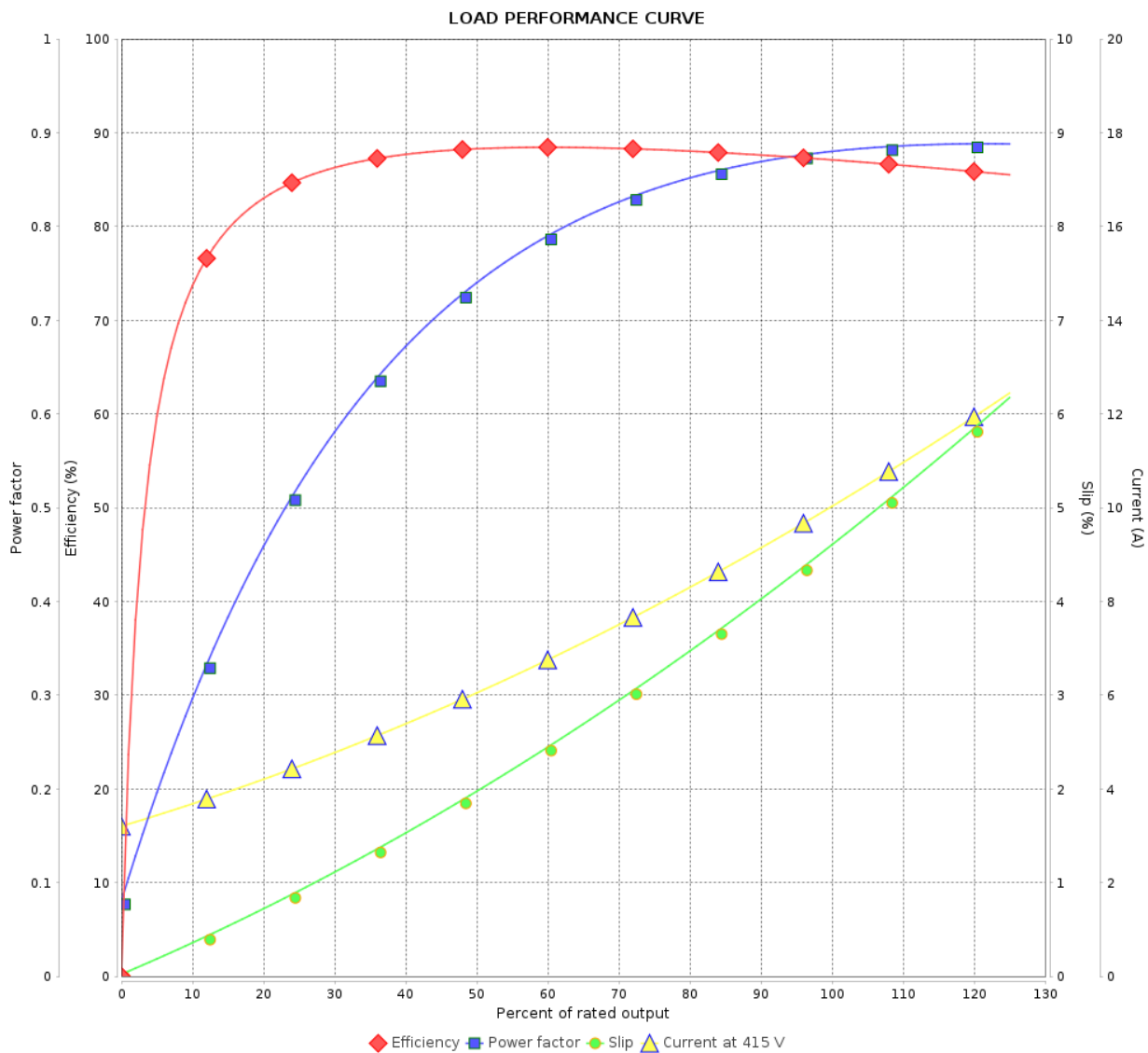
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