

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12717267

Frame : 213/5TC	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 : 63.0 kg
Protection degree : IP55	Moment of inertia (J) : 0.0197 kgm ²
Design : B	

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	7.83	7.60	7.49	10.6	10.2	9.82
L. R. Amperes [A]	126/63.1	60.3	57.8	62.2	60.5	65.2	67.8
LRC [A]	7.2x(Code H)	7.7x(Code J)	7.6x(Code J)	8.3x(Code K)	5.7x(Code F)	6.4x(Code G)	6.9x(Code H)
No load current [A]	5.80/2.90	2.90	3.15	3.30	2.90	3.15	3.30
Rated speed [RPM]	3530	2940	2945	2950	2910	2920	2925
Slip [%]	1.94	2.00	1.83	1.67	3.00	2.67	2.50
Rated torque [kgfm]	1.54	1.36	1.36	1.35	1.87	1.86	1.86
Locked rotor torque [%]	210	220	250	270	170	180	200
Breakdown torque [%]	300	310	350	370	229	260	280
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	32s (cold) 18s (hot)	37s (cold) 21s (hot)	37s (cold) 21s (hot)	37s (cold) 21s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level ²	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%	87.5	86.7	86.4	86.1	88.5	87.5
	75%	89.5	88.2	88.3	88.5	88.5	88.5
	100%	89.5	88.2	88.3	88.5	87.5	88.5
Power Factor	25%						
	50%	0.75	0.74	0.70	0.67	0.80	0.77
	75%	0.84	0.83	0.81	0.78	0.87	0.86
	100%	0.88	0.88	0.86	0.84	0.90	0.88

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

Losses (%)	P1 (0,9;1,0)	11.3	12.9	12.8	12.5	13.8	13.8	12.5
	P2 (0,5;1,0)	9.2	10.5	10.4	10.2	11.2	11.2	10.2
	P3 (0,25;1,0)	8.5	9.7	9.6	9.4	10.4	10.4	9.4
	P4 (0,9;0,5)	5.8	6.6	6.5	6.4	7.0	7.0	6.4
	P5 (0,5;0,5)	3.6	4.1	4.0	4.0	4.3	4.3	4.0
	P6 (0,5;0,25)	2.3	2.7	2.6	2.6	2.8	2.8	2.6
	P7 (0,25;0,25)	1.5	1.7	1.7	1.6	1.8	1.8	1.6

Bearing type : 6308 ZZ	Non drive end : 6207 ZZ	Foundation loads
Sealing : V'Ring	V'Ring	Max. traction : 63 kgf
Lubrication interval : -	-	Max. compression : 130 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	29/06/2026		Page 1 / 9	Revision

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Notes
USABLE @208V 19.4A SF 1.15 SFA 22.3A

Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 2 / 9		Revision
Checked by					
Date	29/06/2026				

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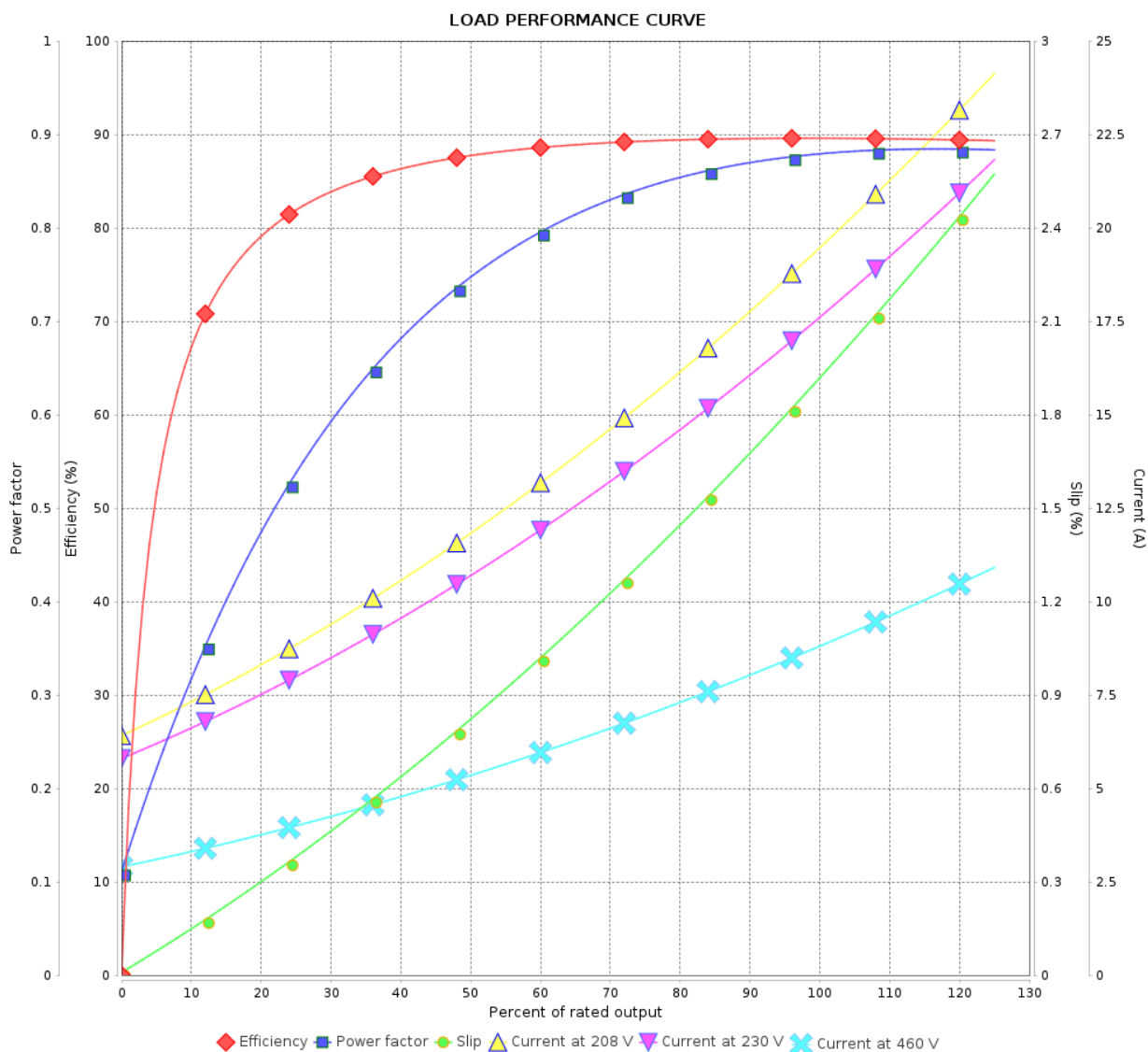
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Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 3 / 9	Revision
Checked by					
Date	29/06/2026				

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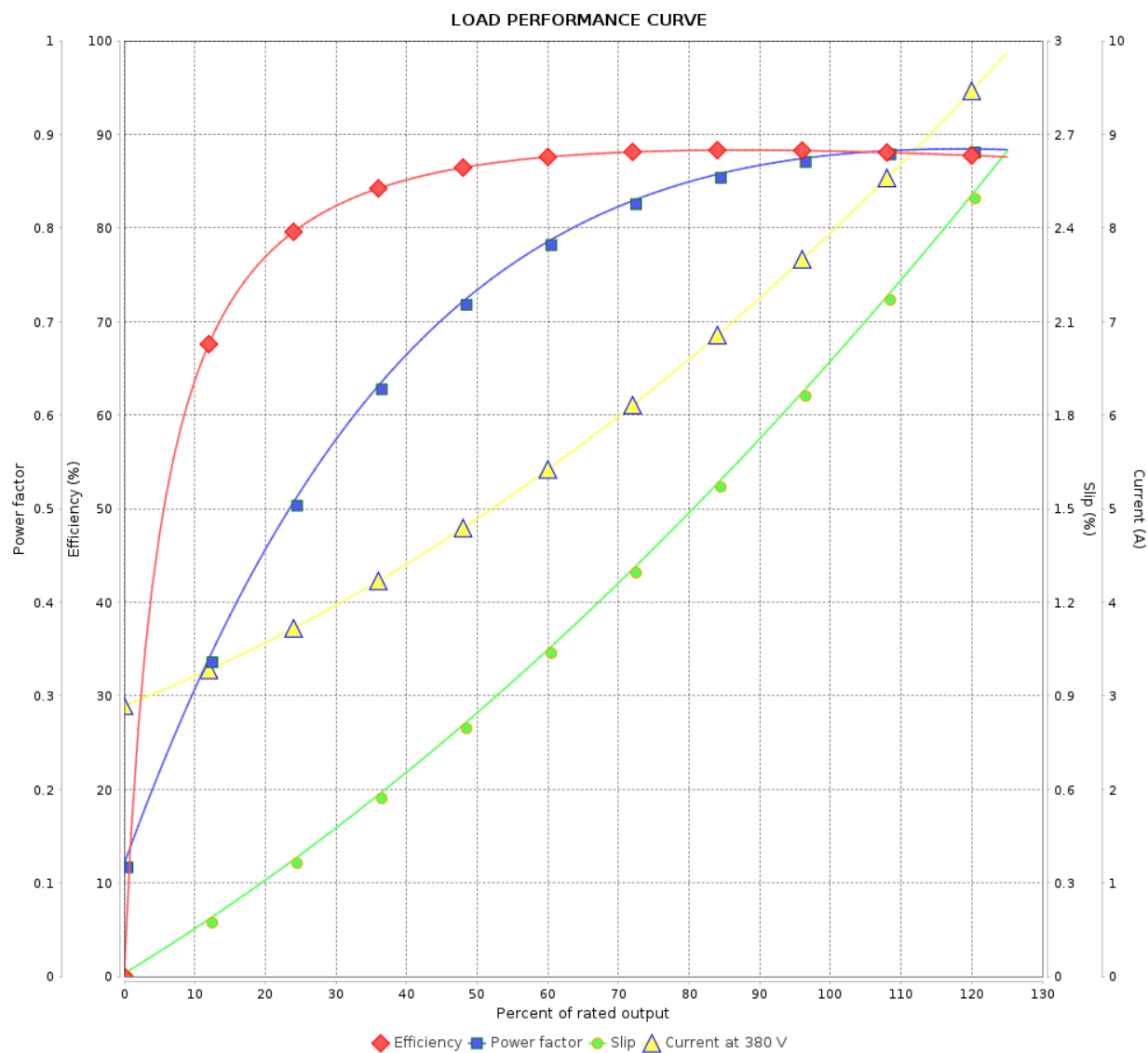
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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	29/06/2026				
			Page 4 / 9	Revision	

LOAD PERFORMANCE CURVE

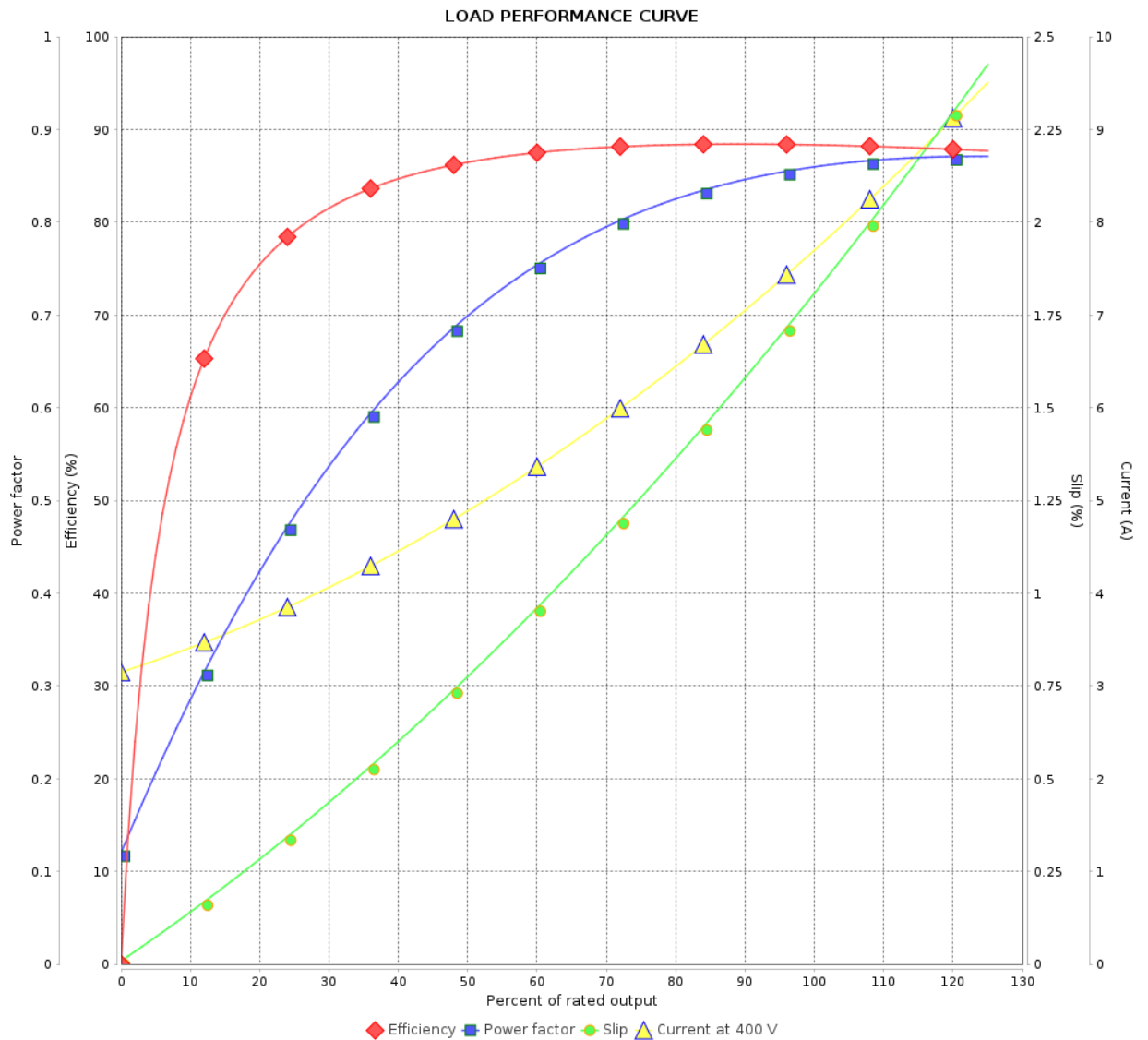
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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	29/06/2026				
				Page 5 / 9	Revision

LOAD PERFORMANCE CURVE

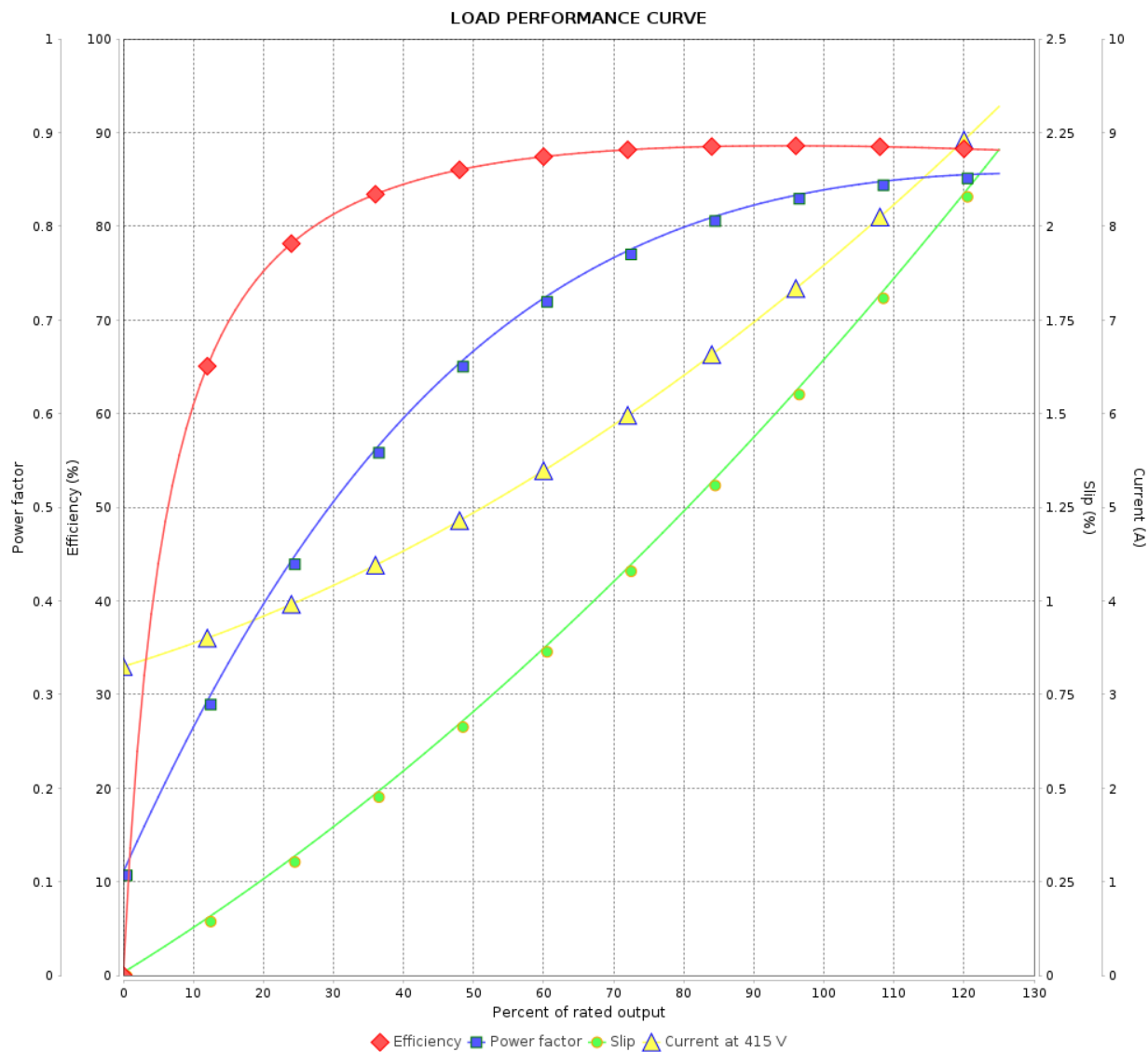
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Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				6 / 9	
Date					
	29/06/2026				

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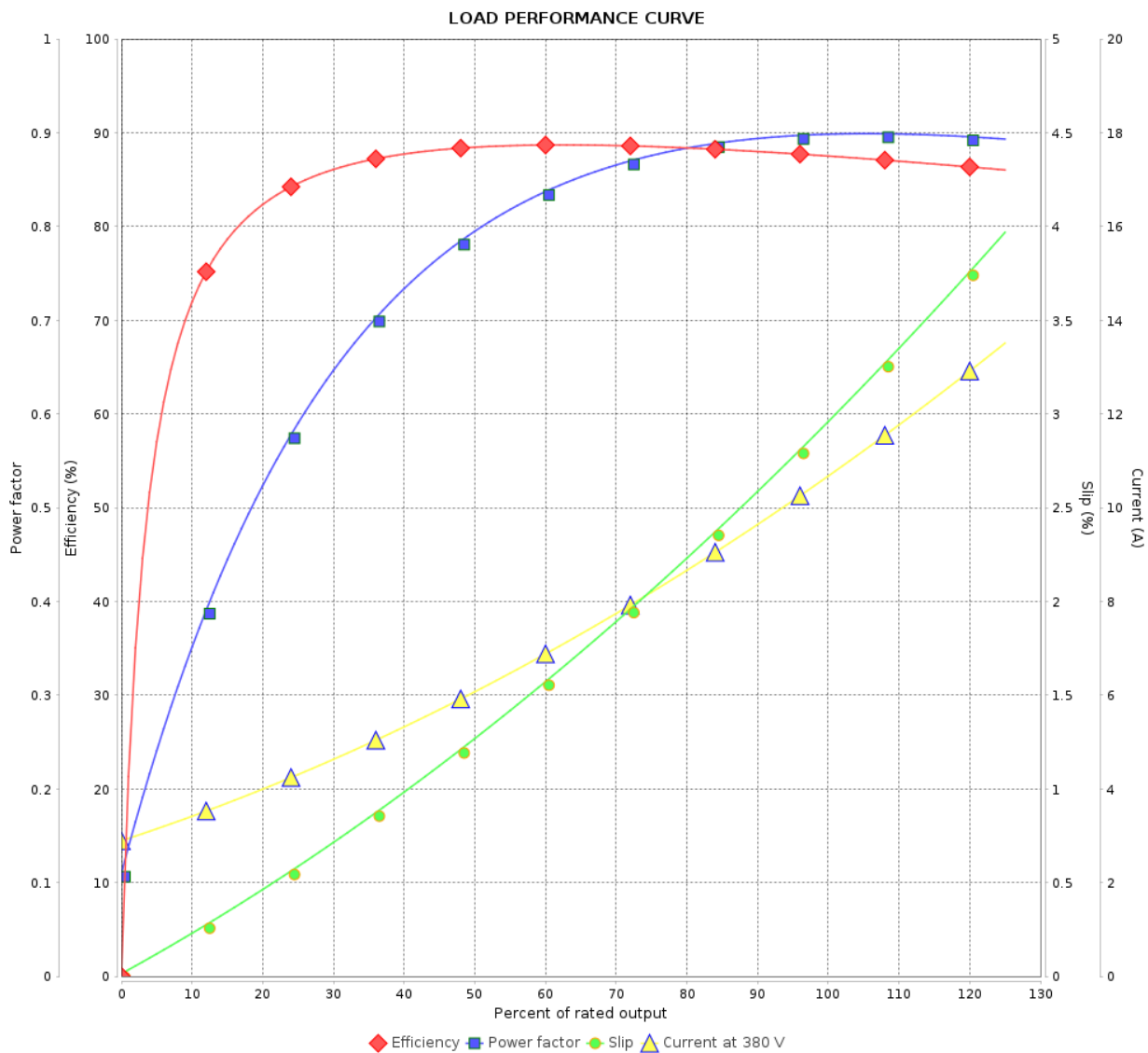
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Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 7 / 9	Revision
Checked by					
Date	29/06/2026				

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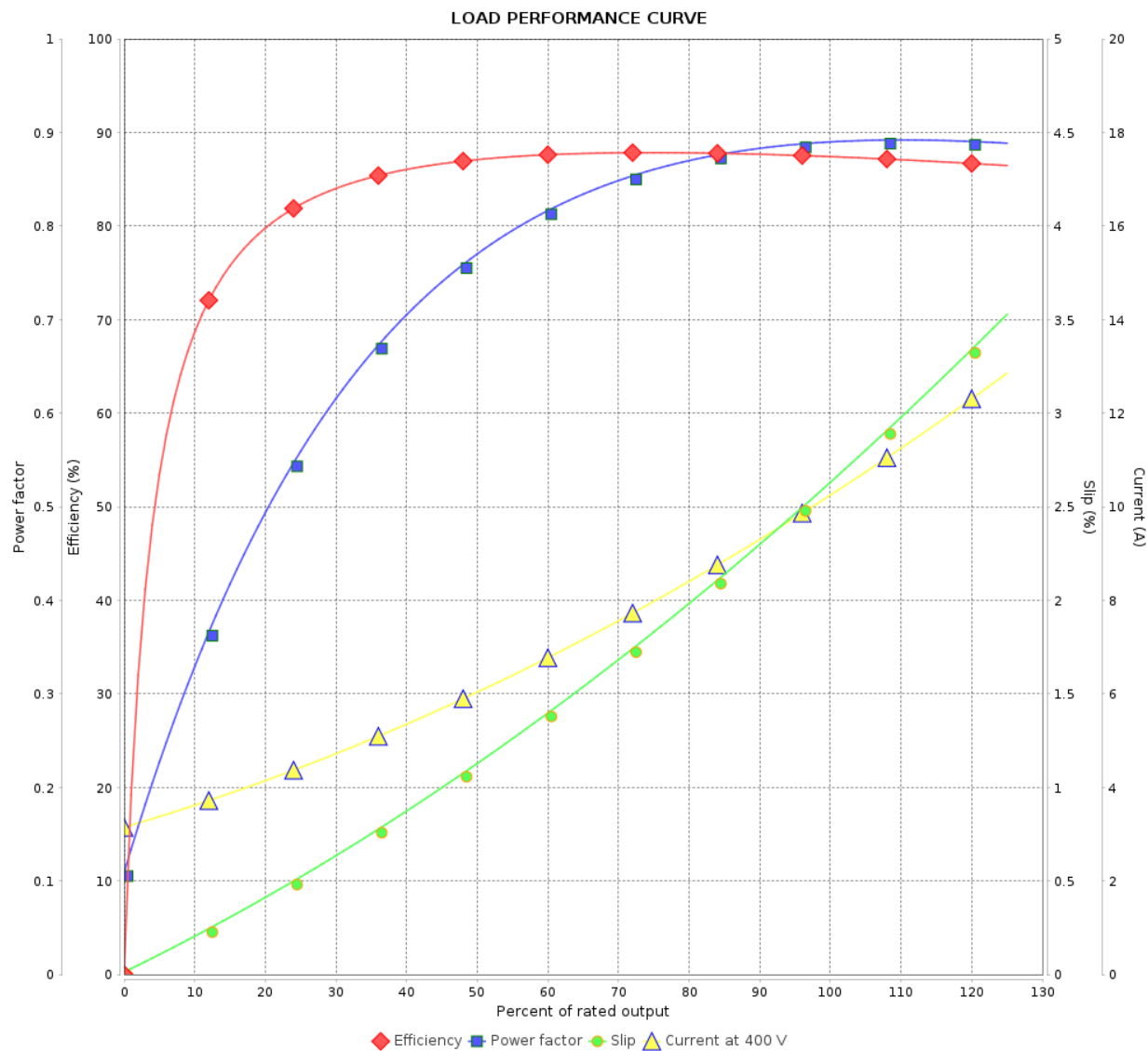
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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	29/06/2026				
			Page 8 / 9	Revision	

LOAD PERFORMANCE CURVE

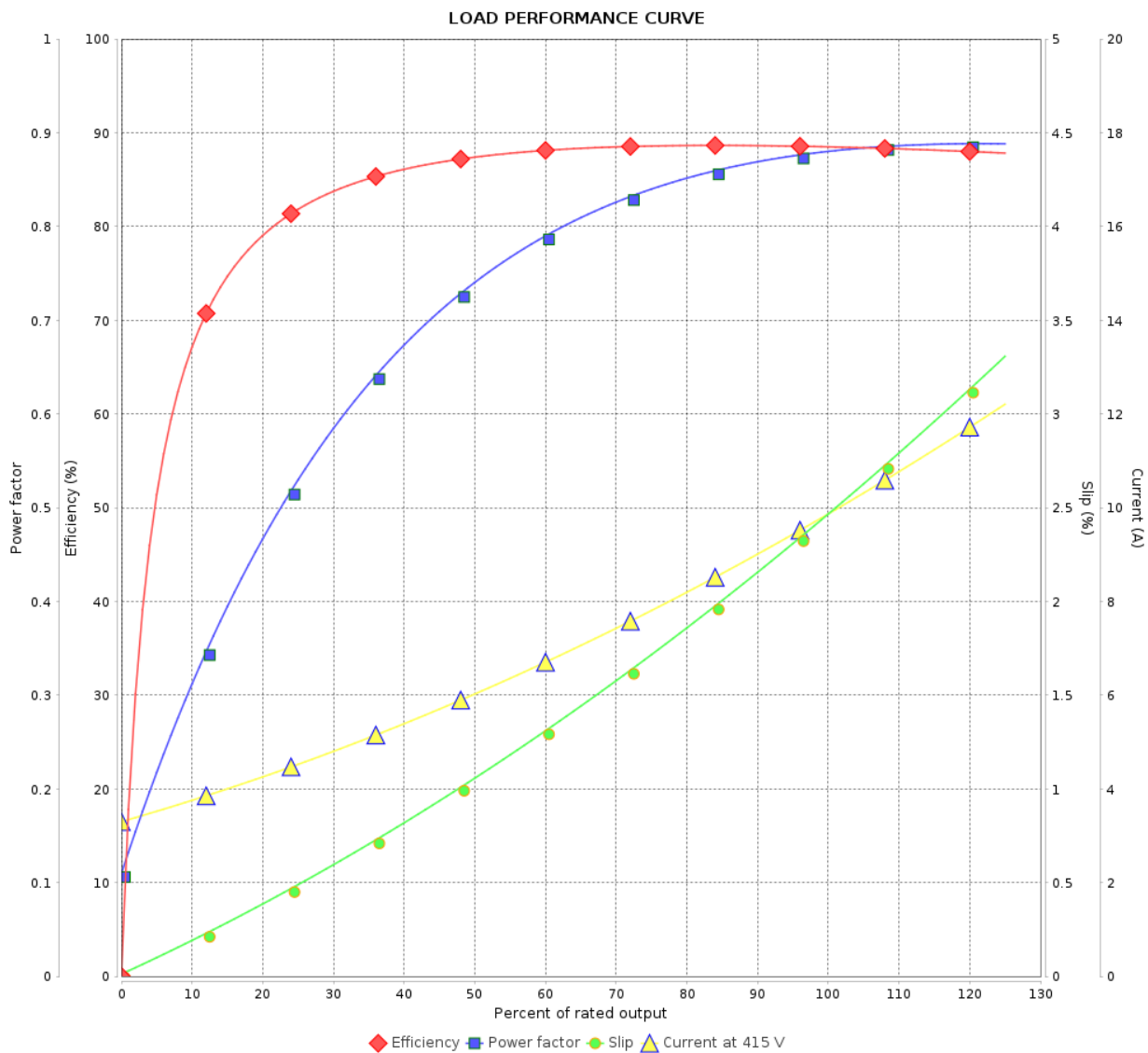
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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	29/06/2026				
				Page 9 / 9	Revision

