

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	11997391				
Frame	: 324TC	Cooling method	: IC01 - ODP				
Insulation class	: F	Mounting	: F-1				
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)				
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line				
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 220 kg				
Protection degree	: IP23	Moment of inertia (J)	: 0.2551 kgm <sup>2</sup>				
Design	: B						
Output [HP]	40	30	30	30	40	40	40
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	96.4/48.2	42.8	41.6	41.1	58.1	55.8	54.4
L. R. Amperes [A]	598/299	270	291	312	279	301	321
LRC [A]	6.2x(Code G)	6.3x(Code G)	7.0x(Code H)	7.6x(Code J)	4.8x(Code E)	5.4x(Code F)	5.9x(Code G)
No load current [A]	37.0/18.5	15.4	16.8	18.1	15.4	16.8	18.1
Rated speed [RPM]	1775	1475	1475	1480	1465	1470	1475
Slip [%]	1.39	1.67	1.67	1.33	2.33	2.00	1.67
Rated torque [kgfm]	16.4	14.8	14.8	14.7	19.8	19.7	19.7
Locked rotor torque [%]	220	240	270	290	180	200	220
Breakdown torque [%]	229	340	370	400	250	280	300
Service factor	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	50s (cold) 28s (hot)	36s (cold) 20s (hot)	32s (cold) 18s (hot)	30s (cold) 17s (hot)	36s (cold) 20s (hot)	32s (cold) 18s (hot)	30s (cold) 17s (hot)
Noise level <sup>2</sup>	64.0 dB(A)						
Efficiency (%)	25%						
	50%	93.6	90.1	89.9	89.8	91.7	91.7
	75%	94.1	91.7	91.7	92.0	91.7	91.7
	100%	94.1	93.0	93.0	93.0	92.3	92.3
Power Factor	25%						
	50%	0.68	0.70	0.66	0.63	0.77	0.74
	75%	0.78	0.80	0.77	0.74	0.84	0.82
	100%	0.83	0.84	0.82	0.80	0.85	0.84
Bearing type	: 6312 Z C3	6212 Z C3	Foundation loads				
Sealing	: Without	Without	Max. traction	: 634 kgf			
	Bearing Seal	Bearing Seal	Max. compression	: 852 kgf			
Lubrication interval	: 20000 h	20000 h					
Lubricant amount	: 21 g	13 g					
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 107A SF 1.15 SFA 123A							
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.			
Rev.	Changes Summary			Performed	Checked	Date	
Performed by							
Checked by						Page	Revision
Date	25/06/2026					1 / 8	

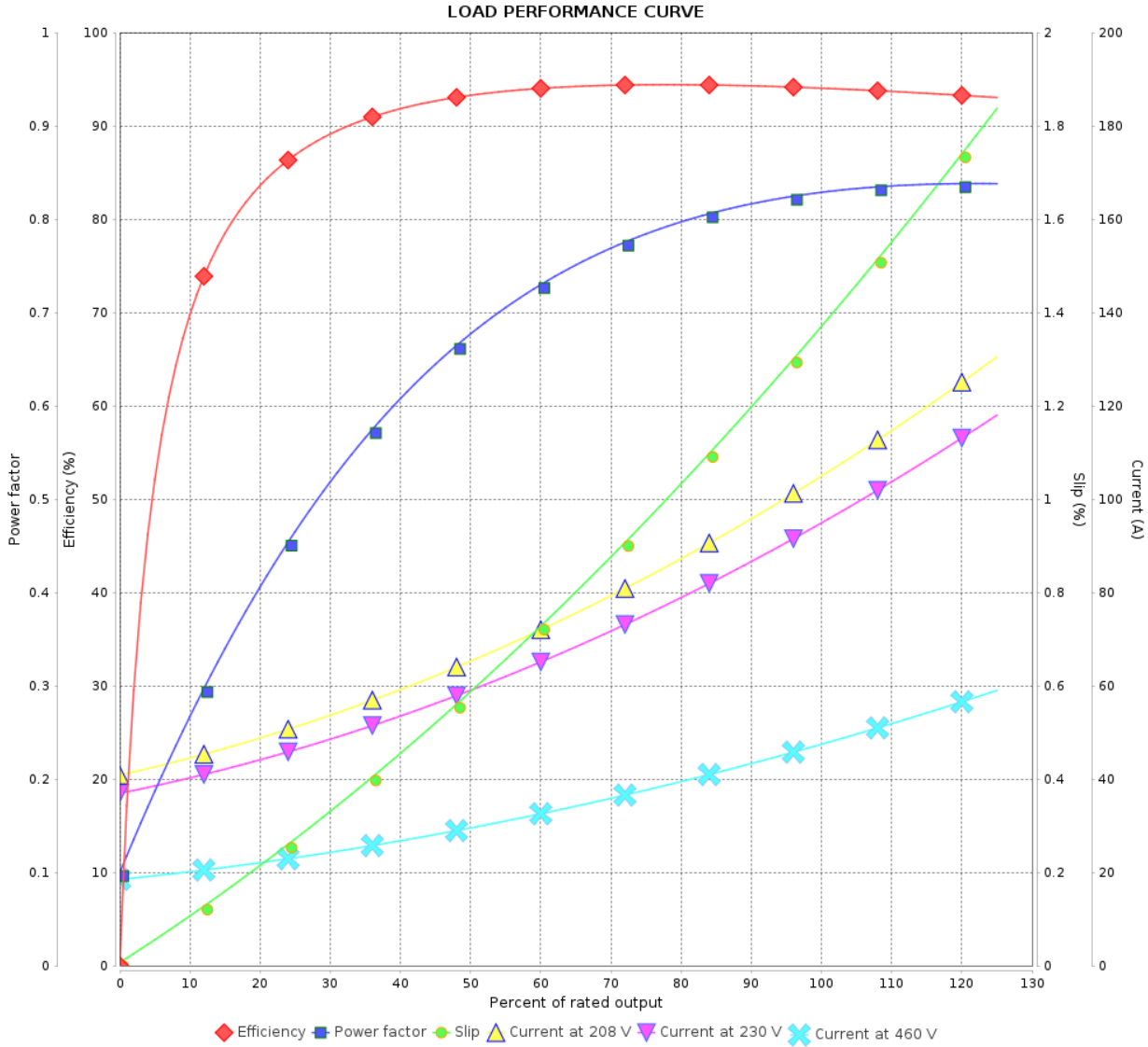
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 8	Revision
Checked by				
Date 25/06/2026				

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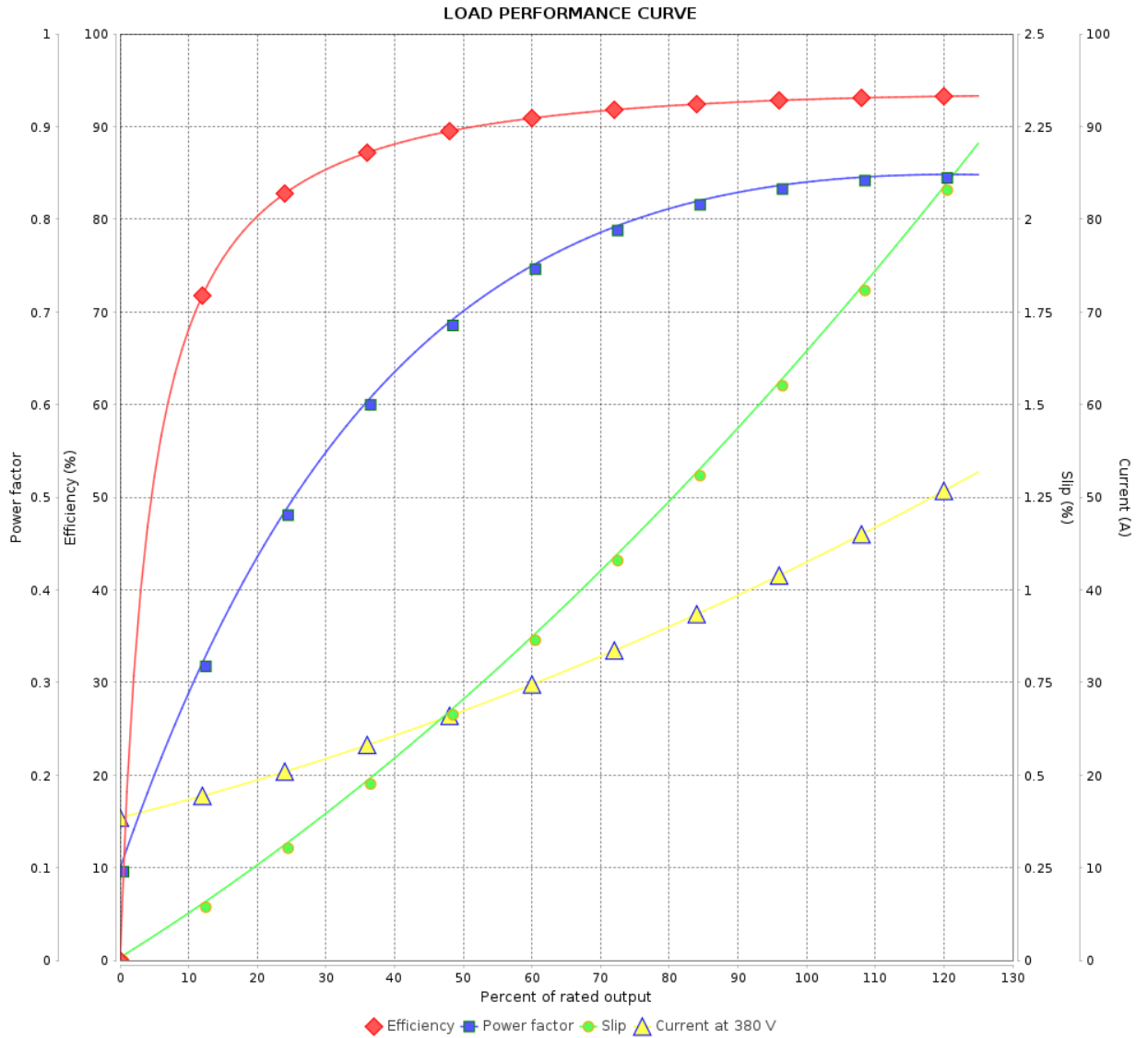
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Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 8	Revision
Checked by				
Date 25/06/2026				

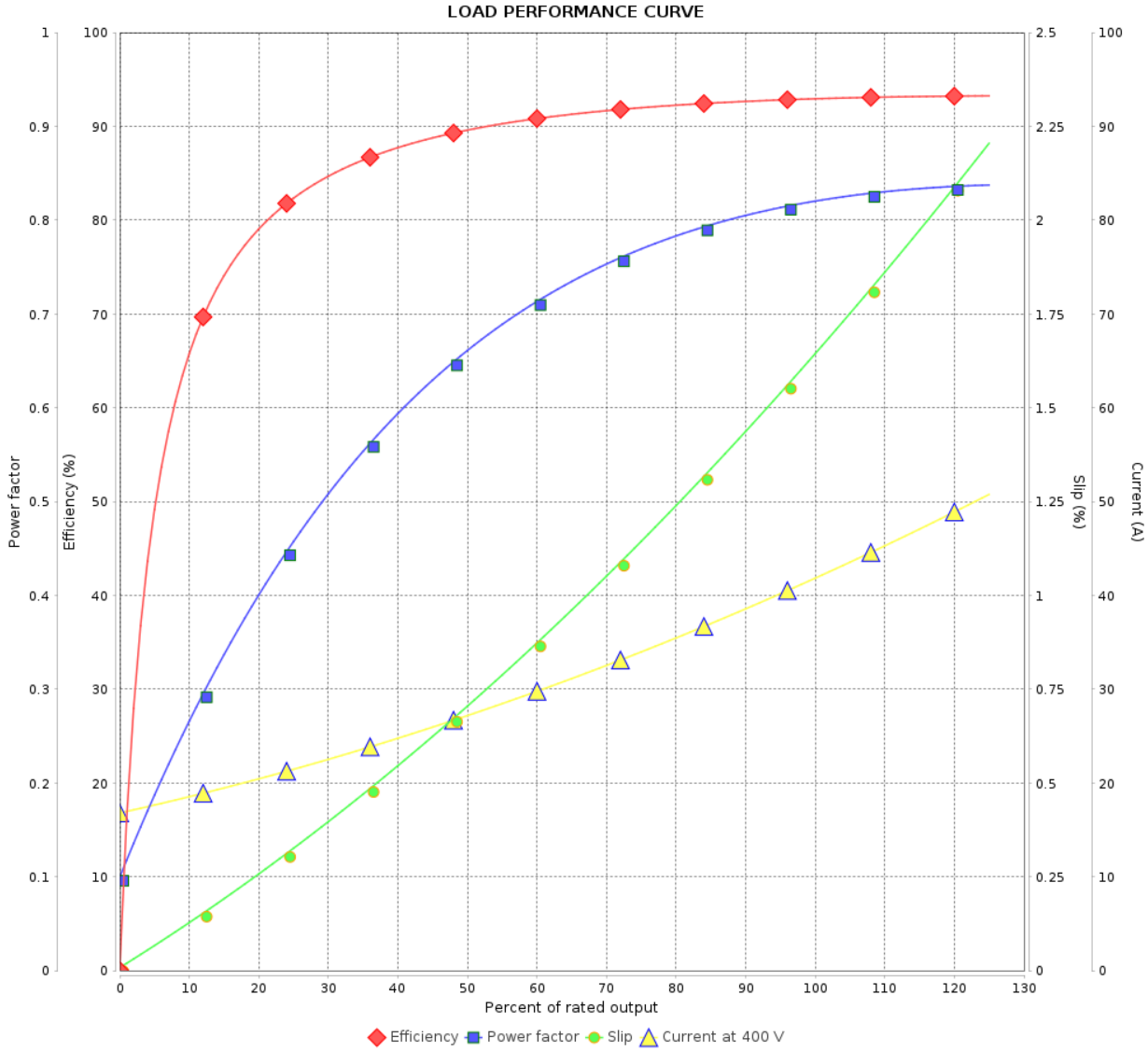
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Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 8	Revision
Checked by				
Date	25/06/2026			

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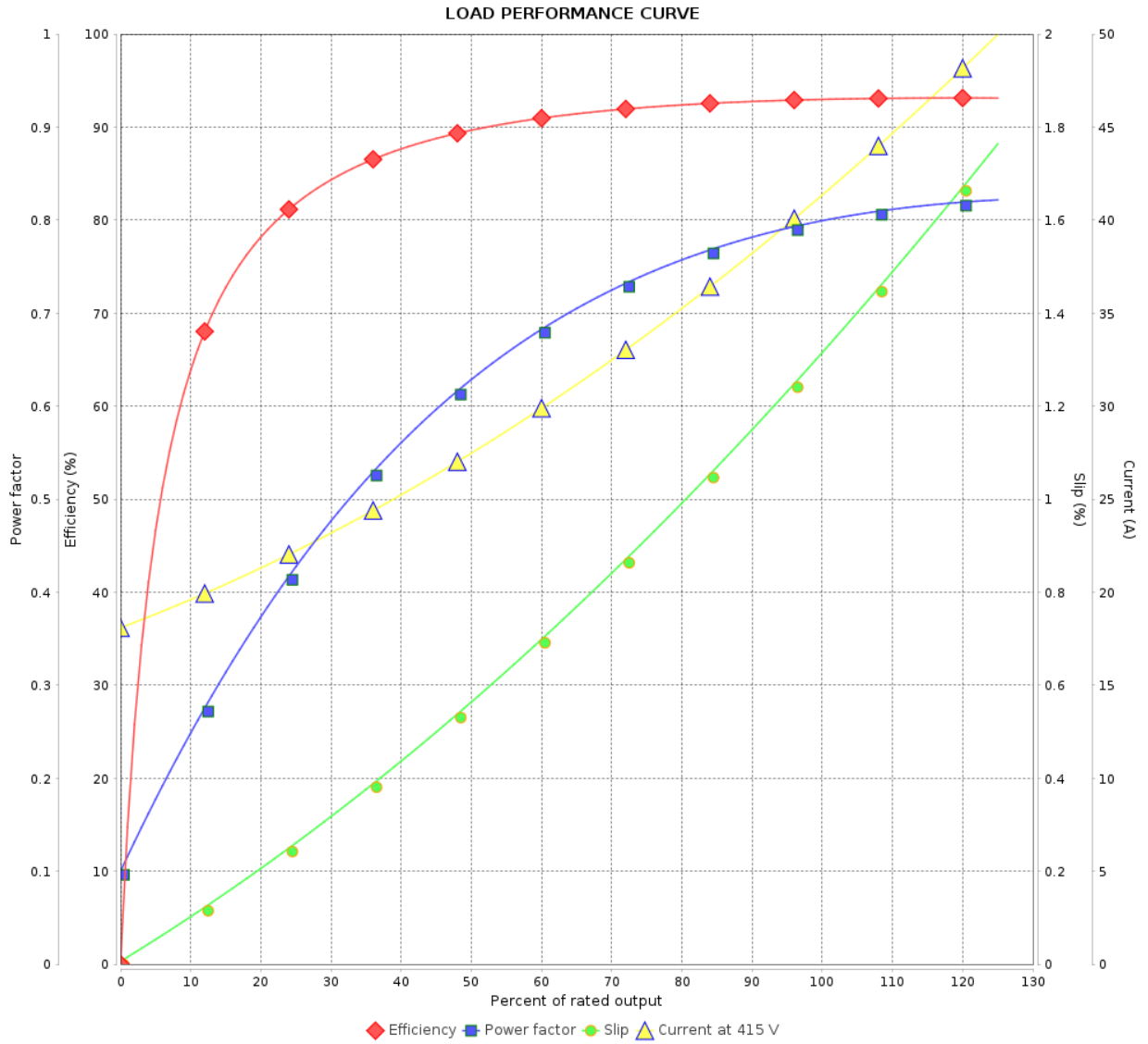
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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		5 / 8		
Date		25/06/2026		

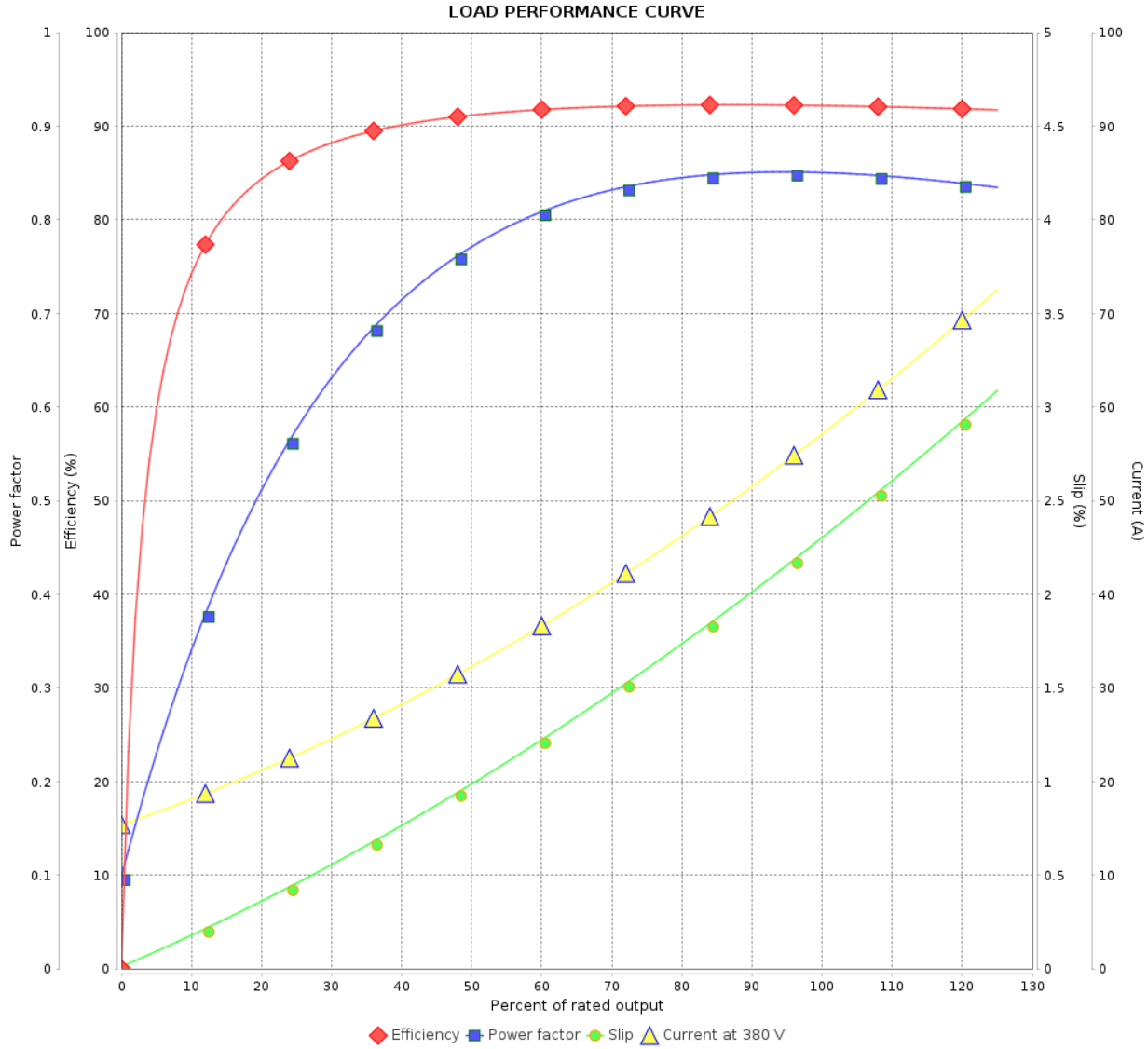
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Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 6 / 8	Revision
Checked by				
Date				

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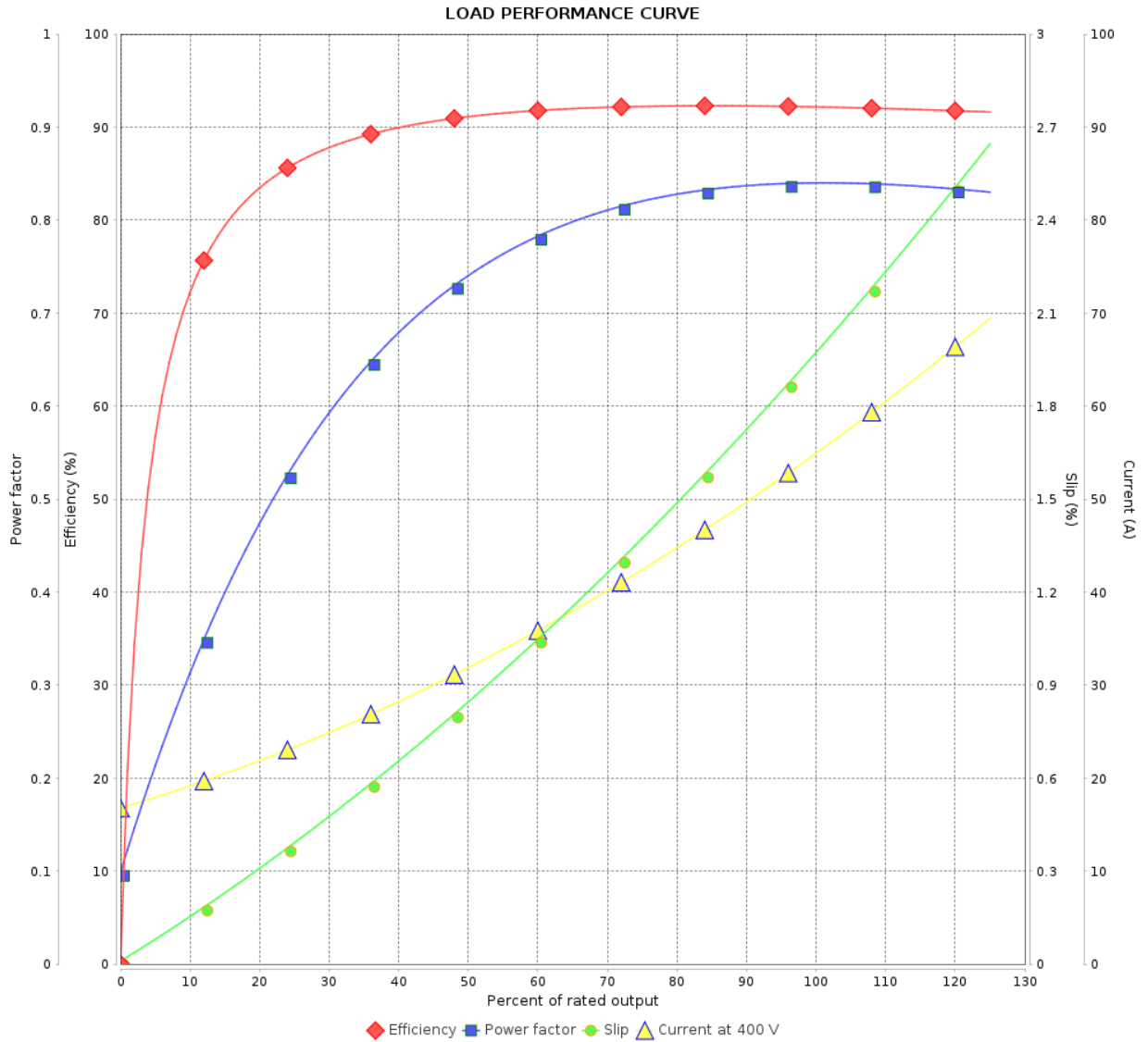
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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 7 / 8		Revision
Checked by				
Date				

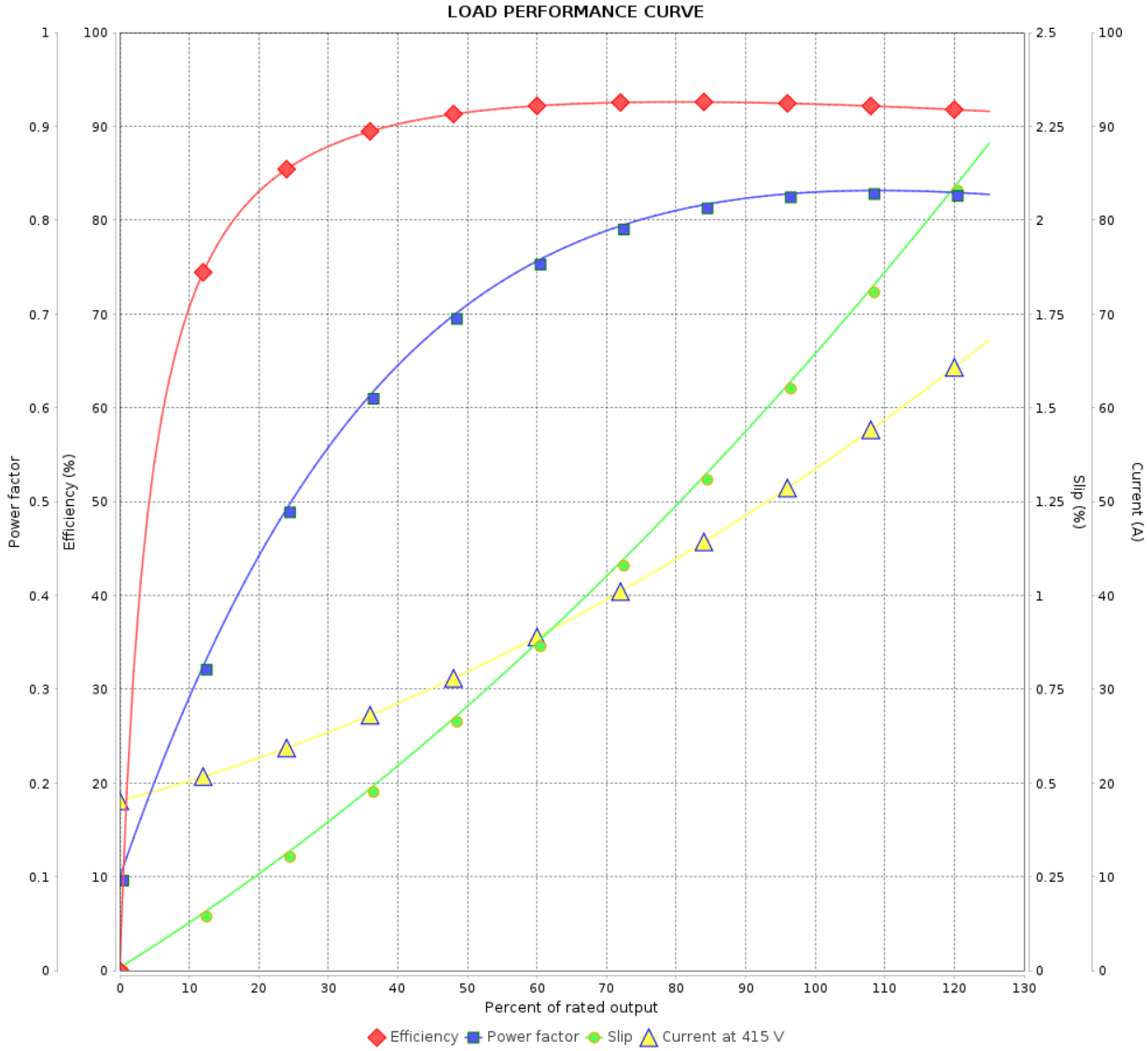
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Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 8 / 8	Revision
Checked by				
Date				