

# DATA SHEET

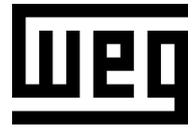
## Three Phase Induction Motor - Squirrel Cage



Customer :							
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11993105				
Frame	: 213/5TC	Cooling method	: IC411 - TEFC				
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>	: 81.5 kg				
Protection degree	: IP55	Moment of inertia (J)	: 0.0268 kgm <sup>2</sup>				
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]	3.08	2.46	2.46	2.45	3.74	3.73	3.72
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 level <sup>2</sup>	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
	75%	90.5	90.1	90.1	90.1	89.0	89.5
	100%	91.0	90.1	90.1	90.1	89.0	89.7
Power Factor	25%						
	50%	0.73	0.70	0.64	0.48	0.80	0.76
	75%	0.82	0.80	0.76	0.61	0.87	0.85
	100%	0.87	0.85	0.82	0.70	0.90	0.89
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
	P2 (0,5;1,0)	8.0	8.8	8.8	8.8	9.9	9.2
	P3 (0,25;1,0)	7.0	7.8	7.8	7.8	8.8	8.2
	P4 (0,9;0,5)	5.2	5.8	5.8	5.8	6.5	6.0
	P5 (0,5;0,5)	3.4	3.7	3.7	3.7	4.2	3.9
	P6 (0,5;0,25)	2.3	2.6	2.6	2.6	2.9	2.7
	P7 (0,25;0,25)	1.5	1.7	1.7	1.7	1.9	1.7
Bearing type	: Drive end : 6308 ZZ Non drive end : 6207 ZZ	Foundation loads		Max. traction	: 165 kgf		
Sealing	: V'Ring V'Ring			Max. compression	: 247 kgf		
Lubrication interval	: - -						
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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## Three Phase Induction Motor - Squirrel Cage



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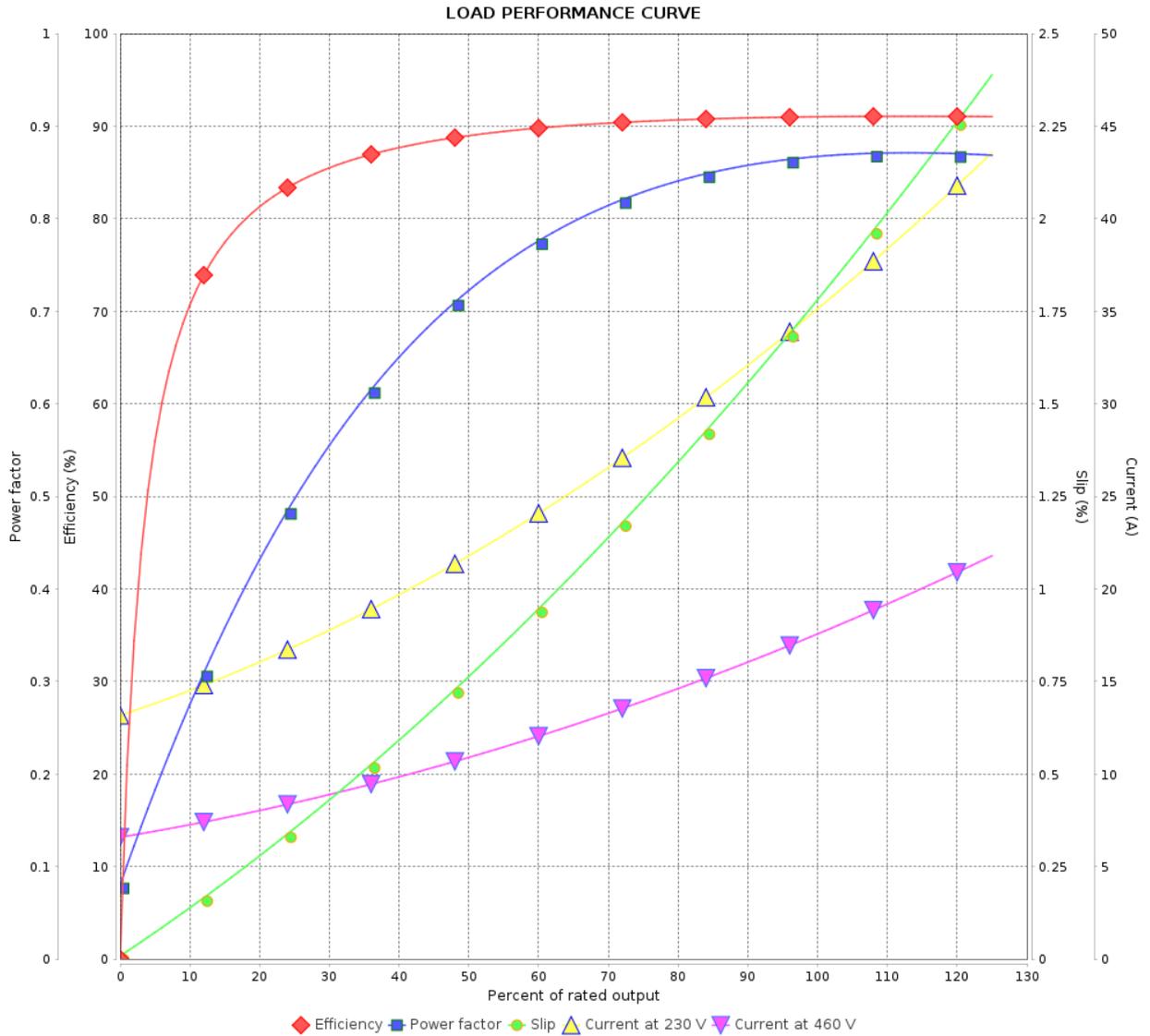
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Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11993105



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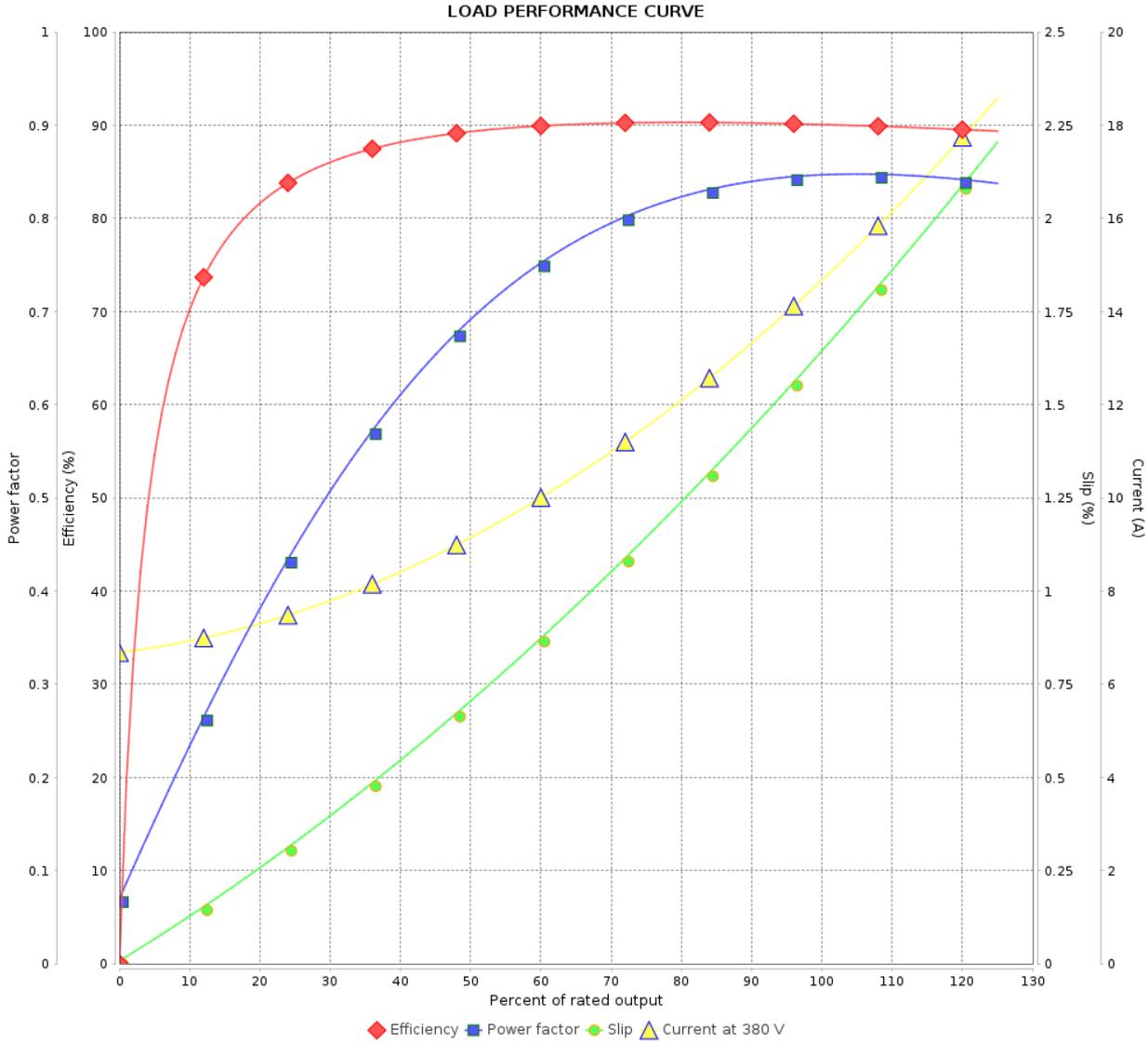
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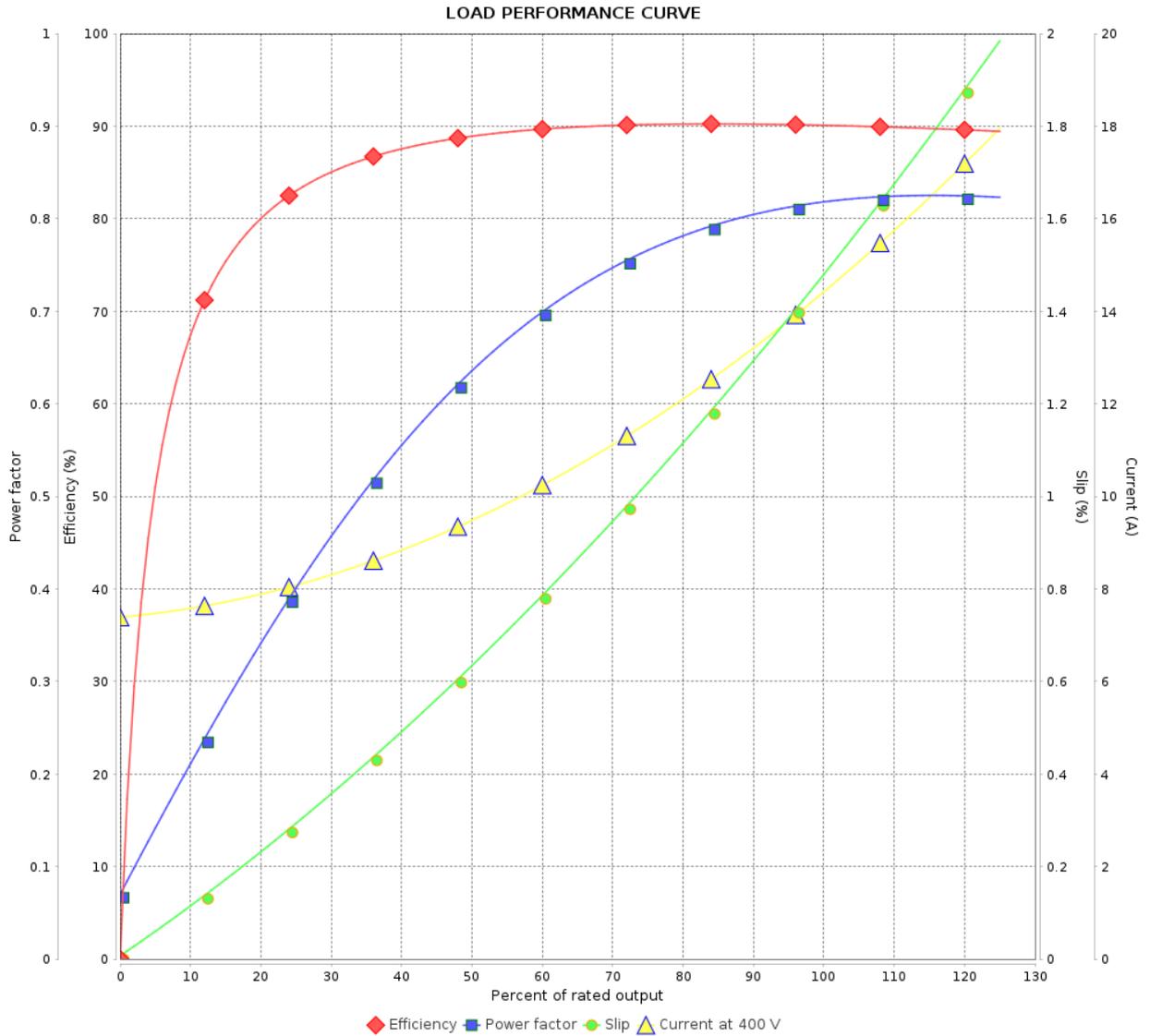
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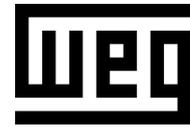
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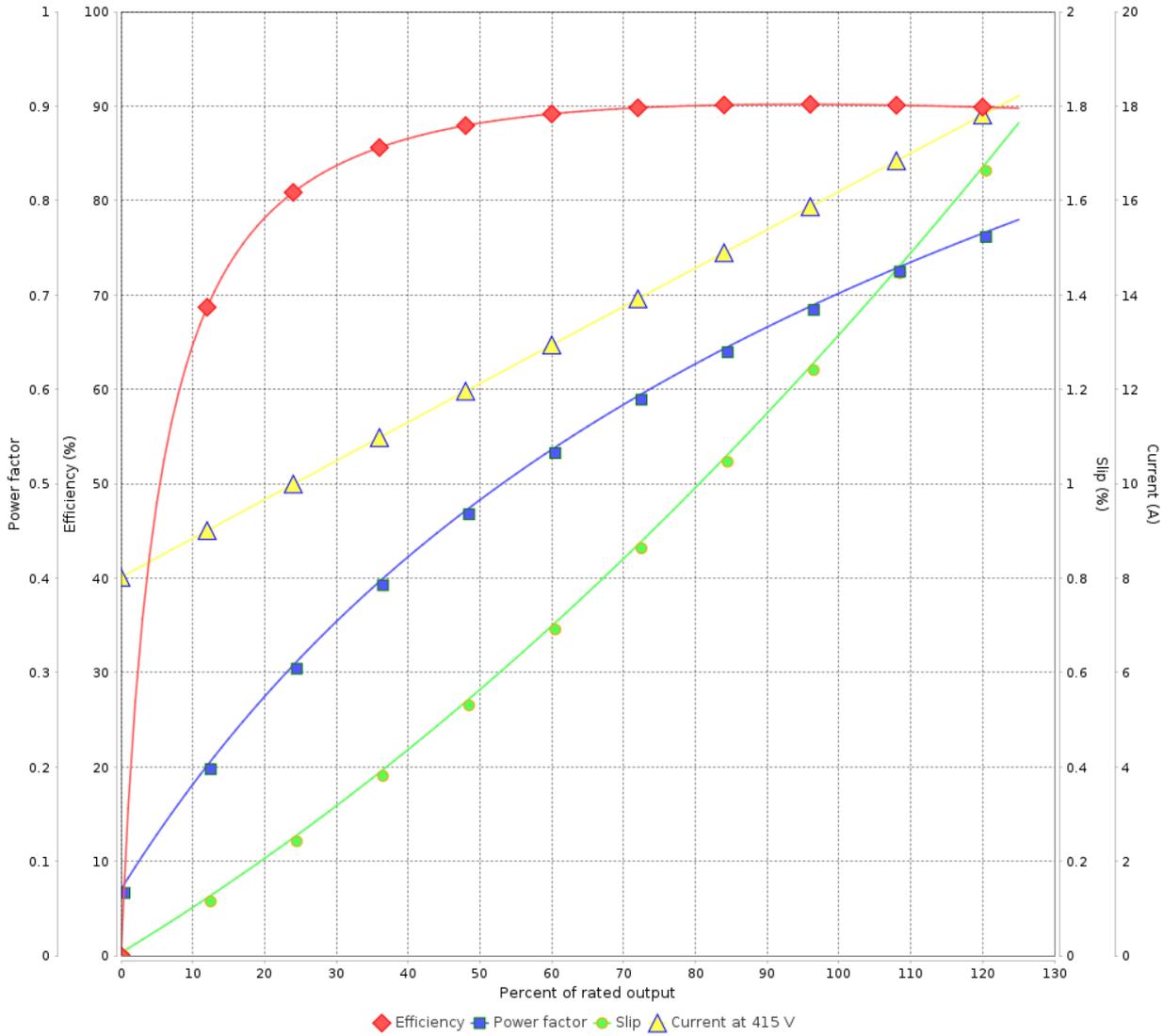
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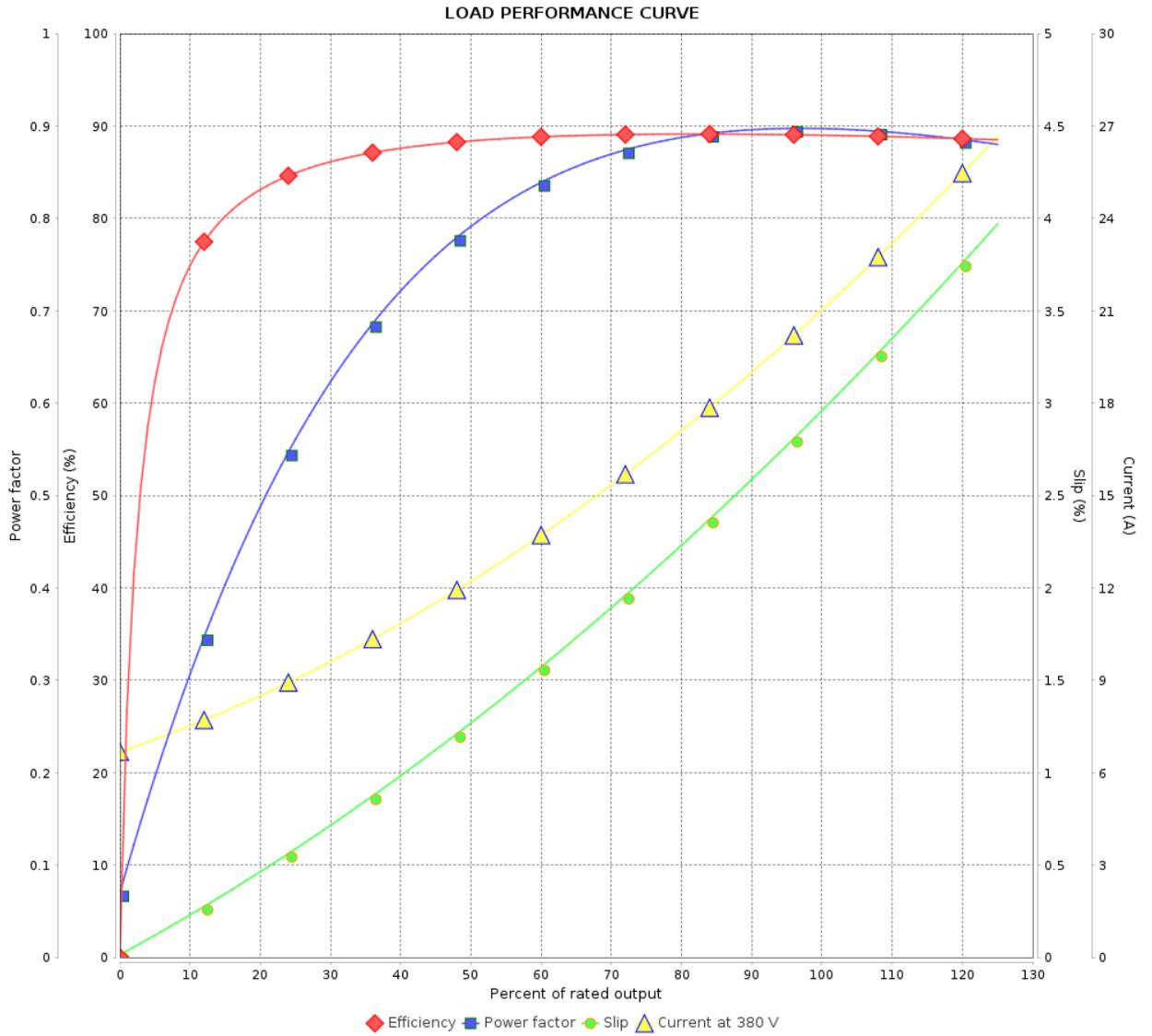
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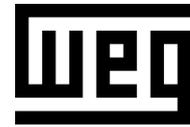
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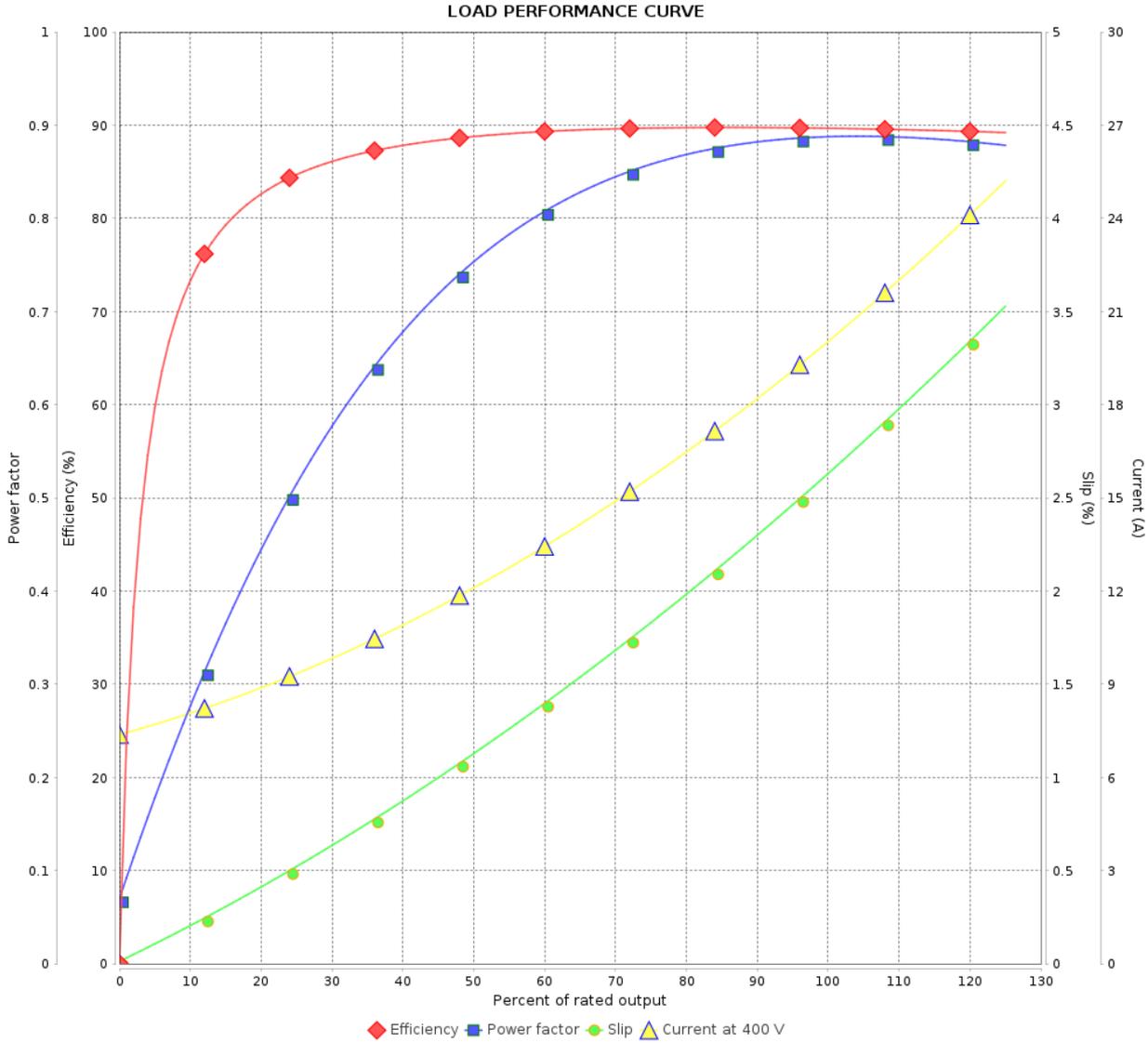
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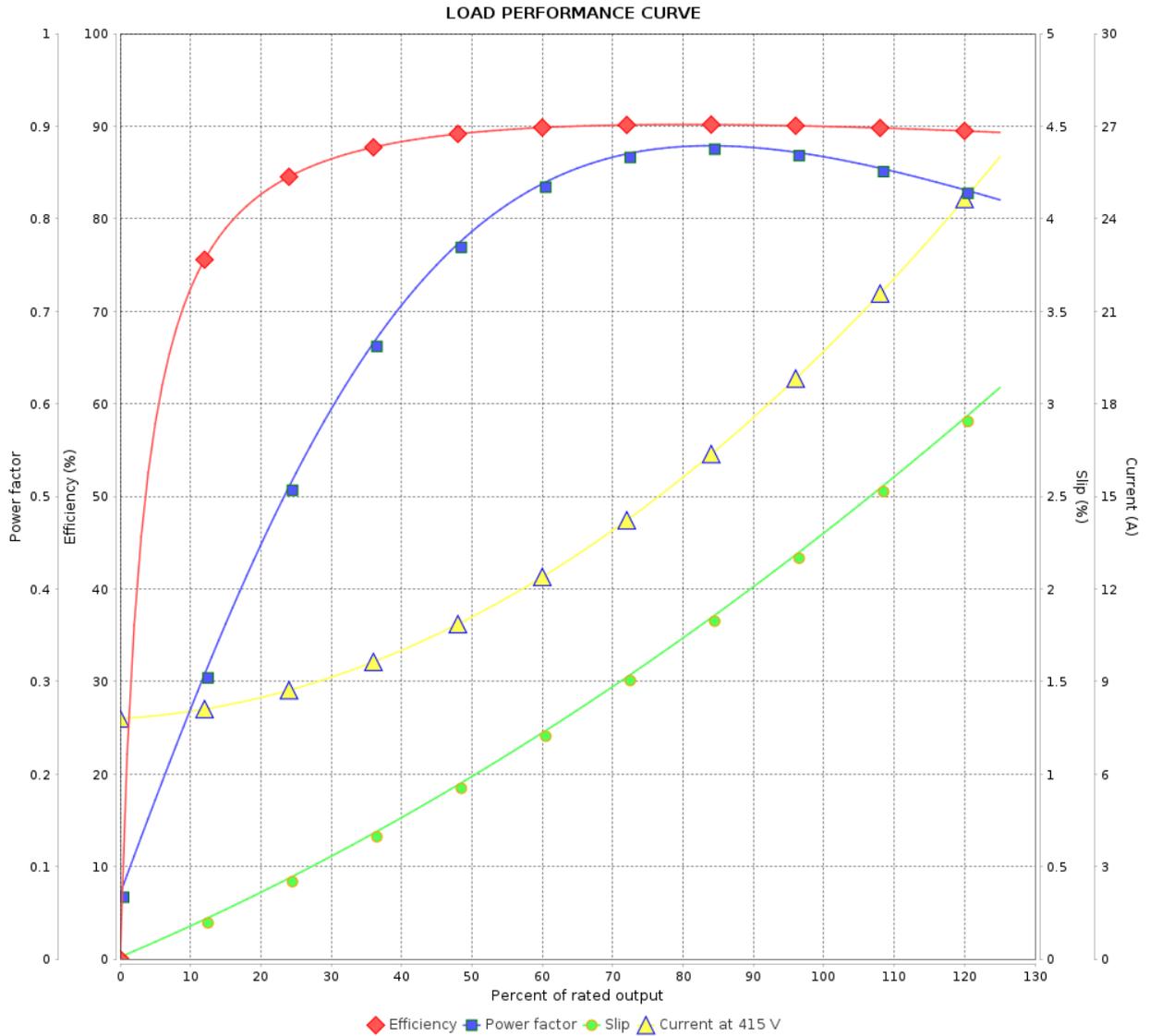
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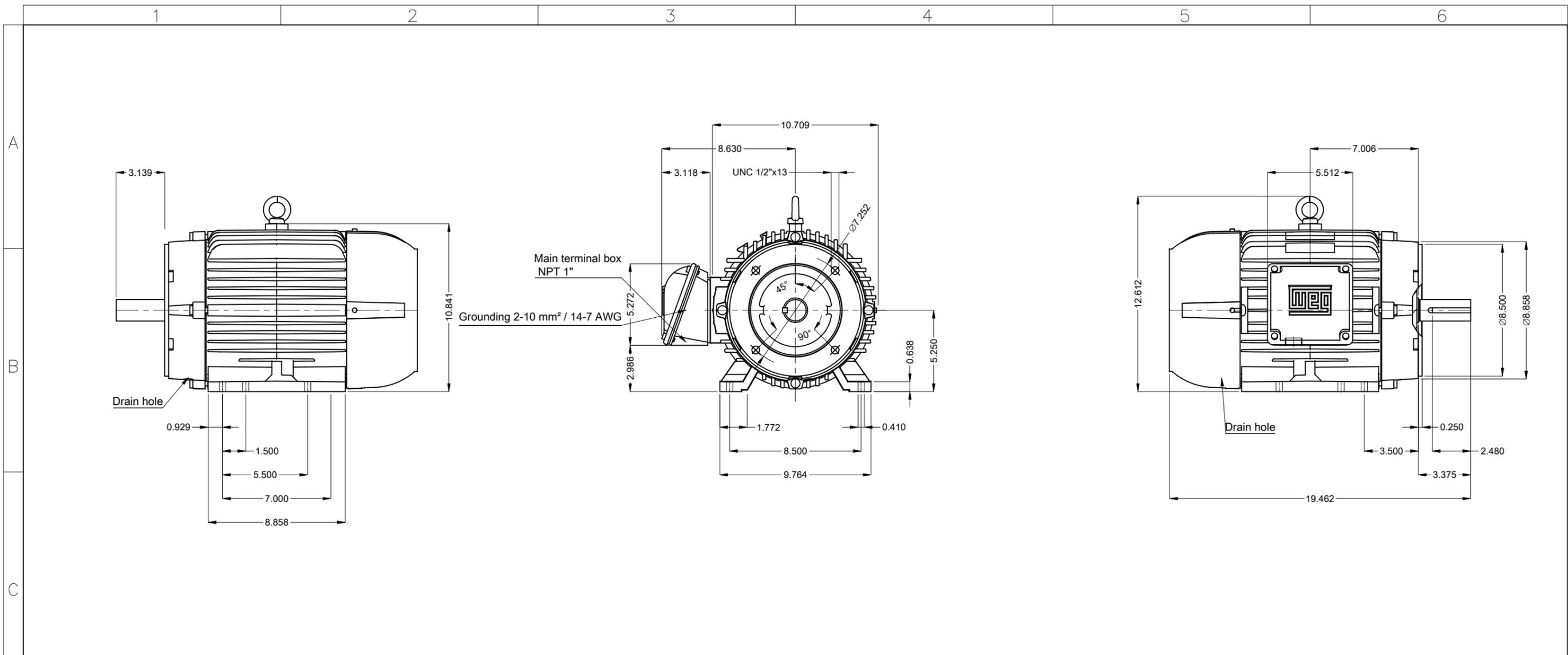
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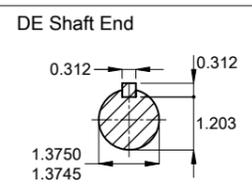
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Color RAL 5009  
 Painting plan 207A  
 Mounting B34D



15 HP 02 Poles 60 Hz										A	
Scale										2 : 13	
HYBRISUSER										00	
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 NEMA PREM. EFF.					PREVIEW		WDD		00
CHECKED		FRAME 213/5TC IP55 TEFC					SHEET		1 / 1		
RELEASED											
REL. DATE											