

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11441988					
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	: 79.6 kg					
Protection degree	: IP55	Moment of inertia (J)	: 0.0636 kgm ²					
Design	: B							
Output [HP]	10	7.5	7.5	7.5	10	10	10	
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]	25.3/12.7	11.5	11.4	11.3	15.2	14.4	14.1	
L. R. Amperes [A]	162/81.1	86.2	91.5	96.1	90.9	93.6	98.8	
LRC [A]	6.4x(Code H)	7.5x(Code J)	8.0x(Code K)	8.5x(Code L)	6.0x(Code G)	6.5x(Code H)	7.0x(Code H)	
No load current [A]	11.6/5.80	5.60	6.00	6.35	5.60	6.00	6.35	
Rated speed [RPM]	1765	1470	1475	1475	1450	1455	1460	
Slip [%]	1.94	2.00	1.67	1.67	3.33	3.00	2.67	
Rated torque [kgfm]	4.11	3.70	3.69	3.69	5.01	4.99	4.97	
Locked rotor torque [%]	240	200	240	260	165	180	190	
Breakdown torque [%]	295	300	340	360	220	250	270	
Service factor	1.25	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	30s (cold) 17s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	0s (cold) 0s (hot)	
Noise level ²	58.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	
Efficiency (%)	25%							
	50%	91.0	90.0	89.2	88.7	88.0	90.3	
	75%	91.7	90.0	89.9	89.8	88.5	90.2	
	100%	91.7	89.8	90.1	90.3	88.5	89.5	
Power Factor	25%							
	50%	0.65	0.61	0.57	0.53	0.72	0.68	
	75%	0.76	0.74	0.70	0.67	0.81	0.79	
	100%	0.81	0.81	0.77	0.75	0.85	0.84	
Losses at normative operating points (speed;torque), in percentage of rated output power								
Losses (%)	P1 (0,9;1,0)	8.8	11.0	10.7	10.4	12.6	11.4	10.5
	P2 (0,5;1,0)	7.3	9.2	8.9	8.7	10.5	9.5	8.8
	P3 (0,25;1,0)	7.1	8.9	8.6	8.4	10.2	9.2	8.5
	P4 (0,9;0,5)	4.6	5.7	5.6	5.4	6.6	5.9	5.5
	P5 (0,5;0,5)	3.2	4.0	3.8	3.8	4.5	4.1	3.8
	P6 (0,5;0,25)	2.2	2.8	2.7	2.6	3.2	2.9	2.7
	P7 (0,25;0,25)	1.5	1.9	1.9	1.8	2.2	2.0	1.9
Bearing type	: Drive end : 6308 ZZ Non drive end : 6207 ZZ	Foundation loads		Max. traction : 208 kgf Max. compression : 288 kgf				
Sealing	: V'Ring V'Ring							
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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Notes
USABLE @208V 27.4A SF 1.15 SFA 31.5A

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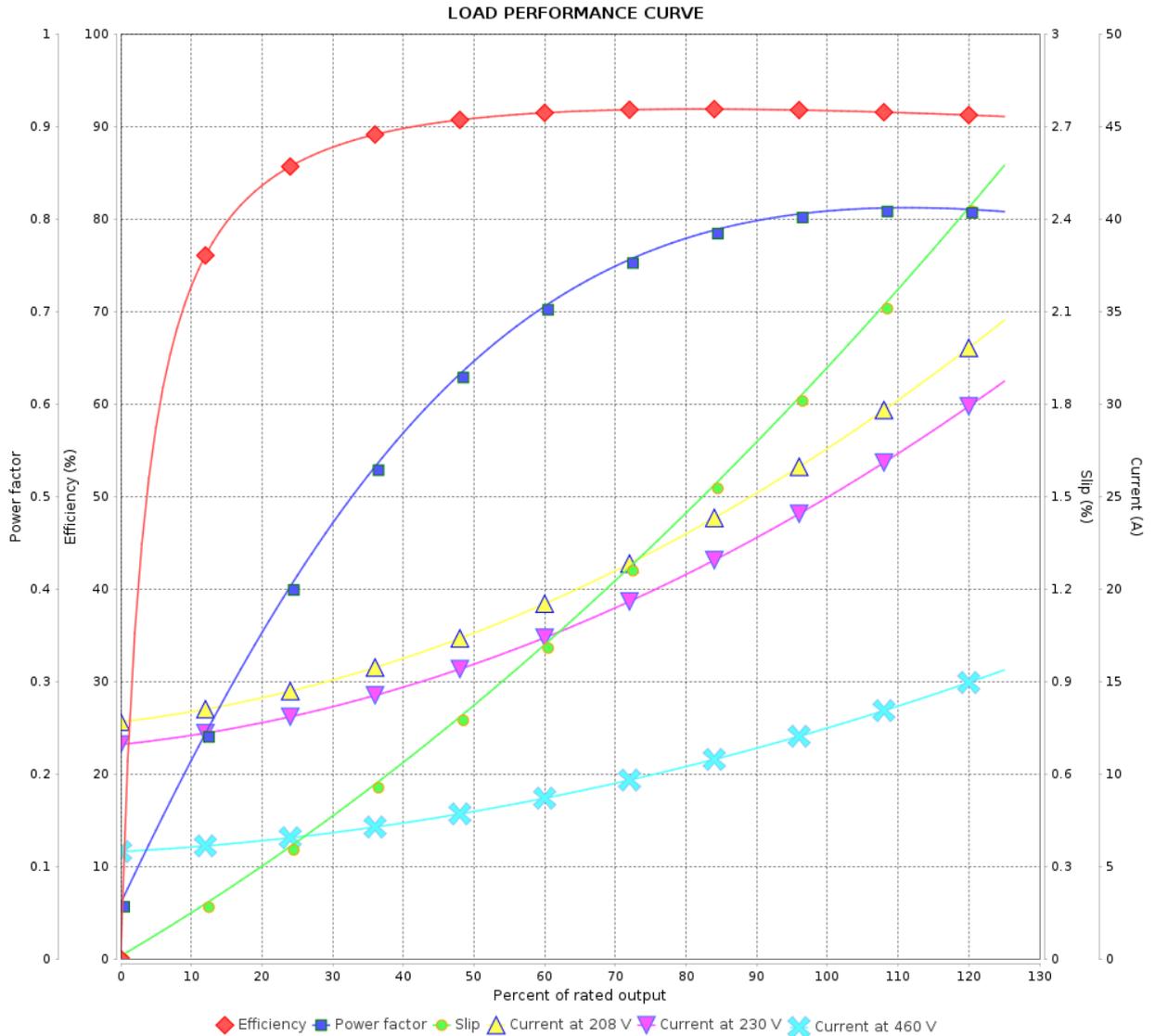
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Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11441988



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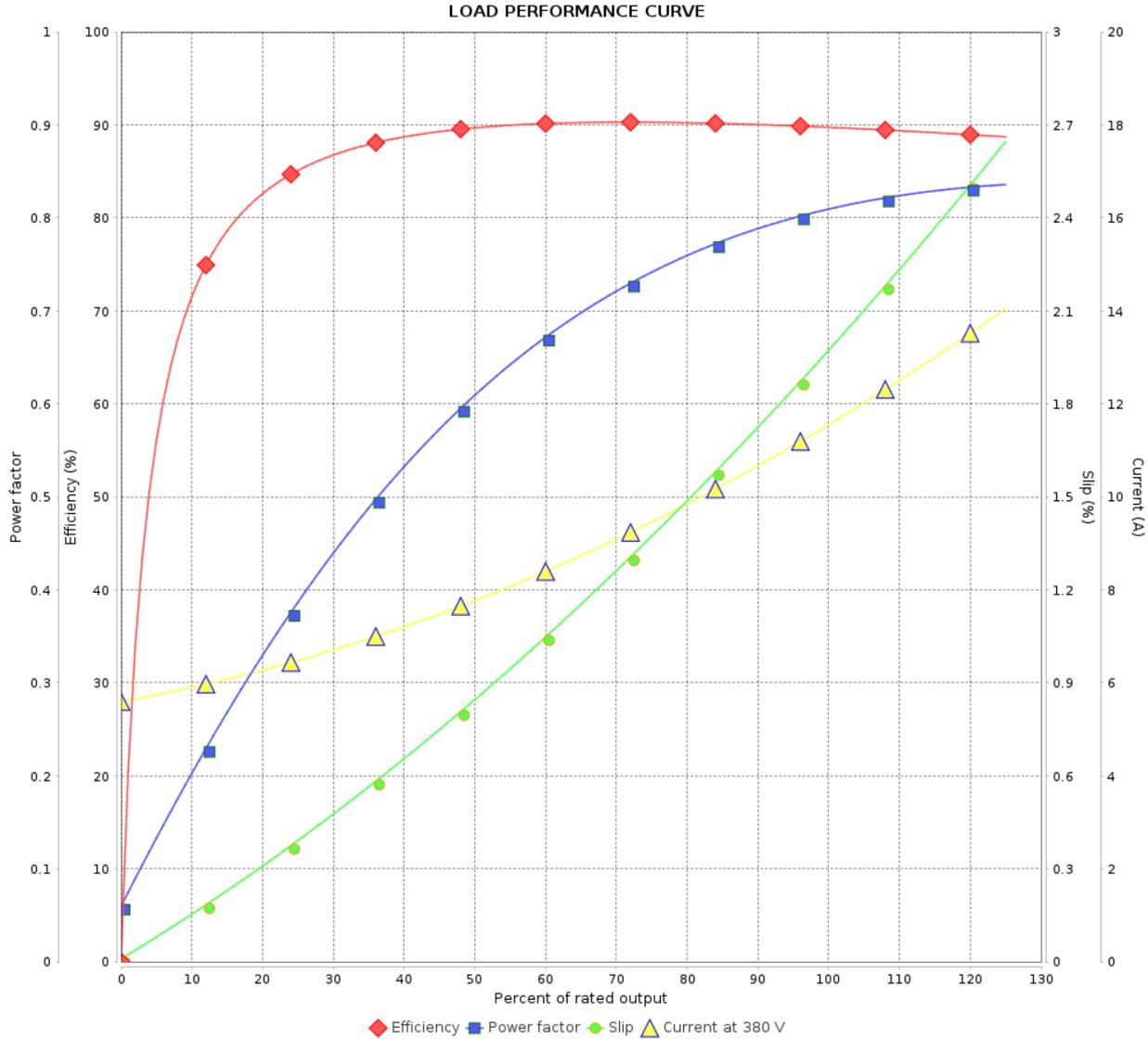
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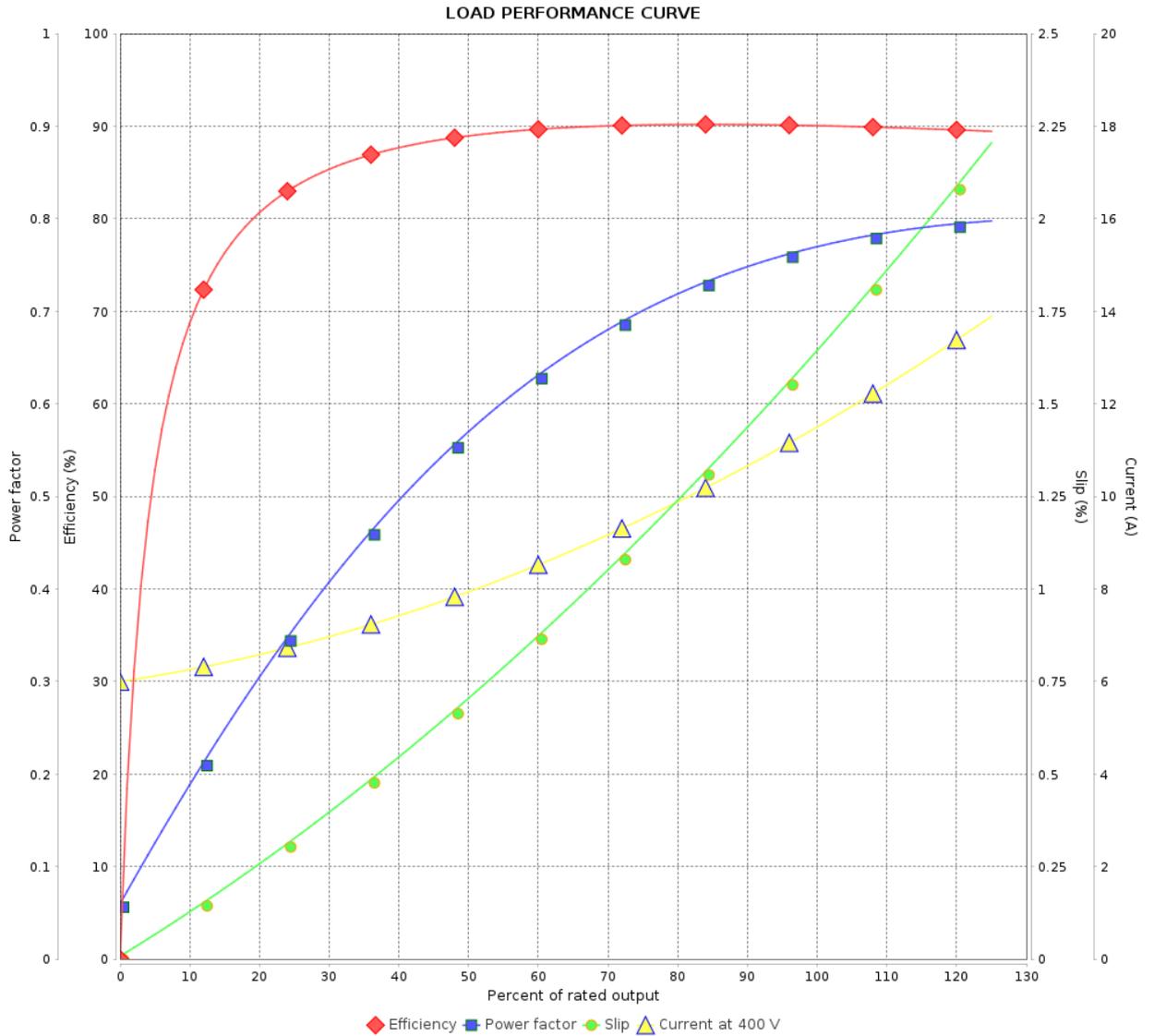
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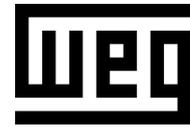
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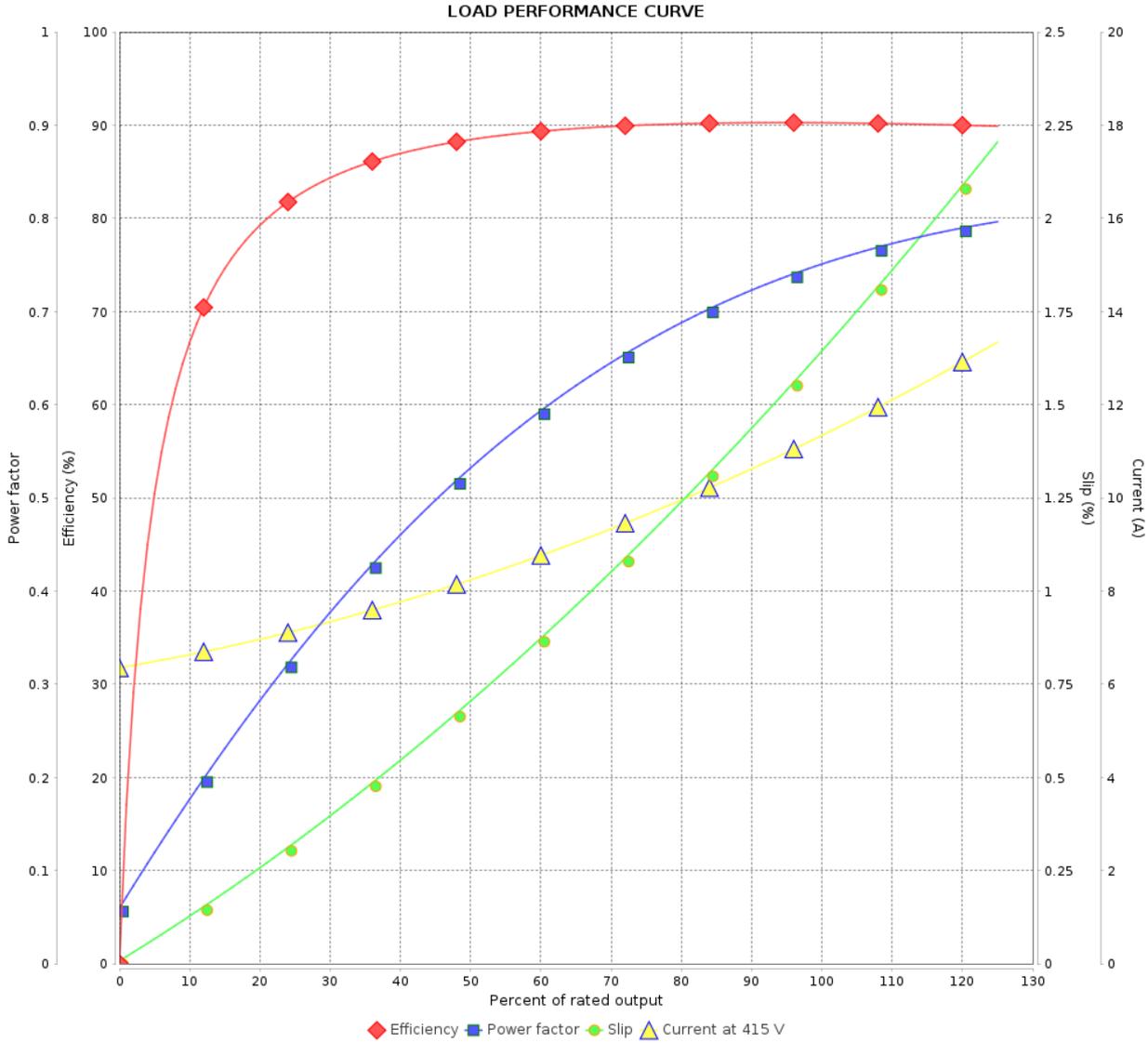
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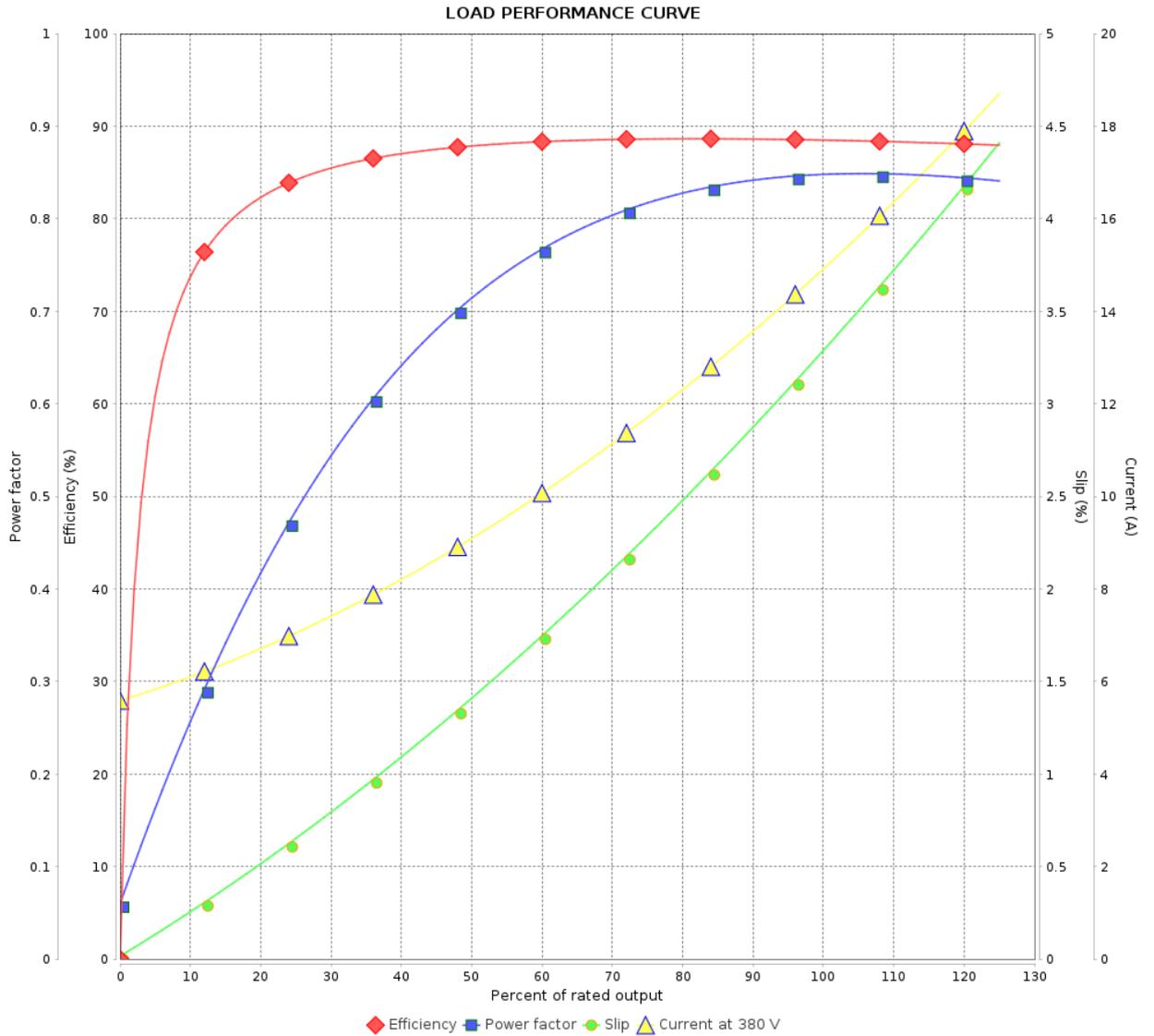
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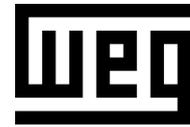
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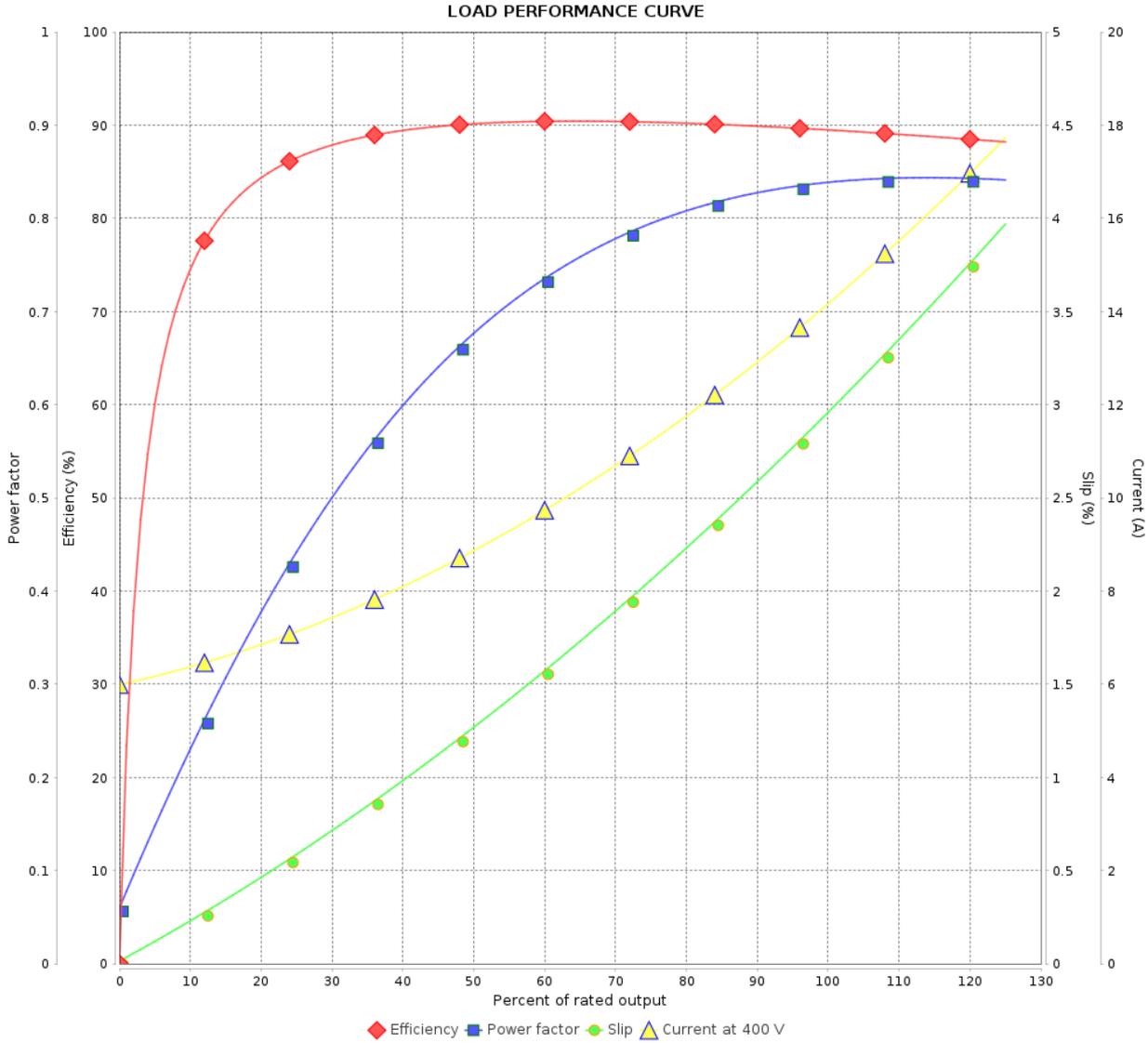
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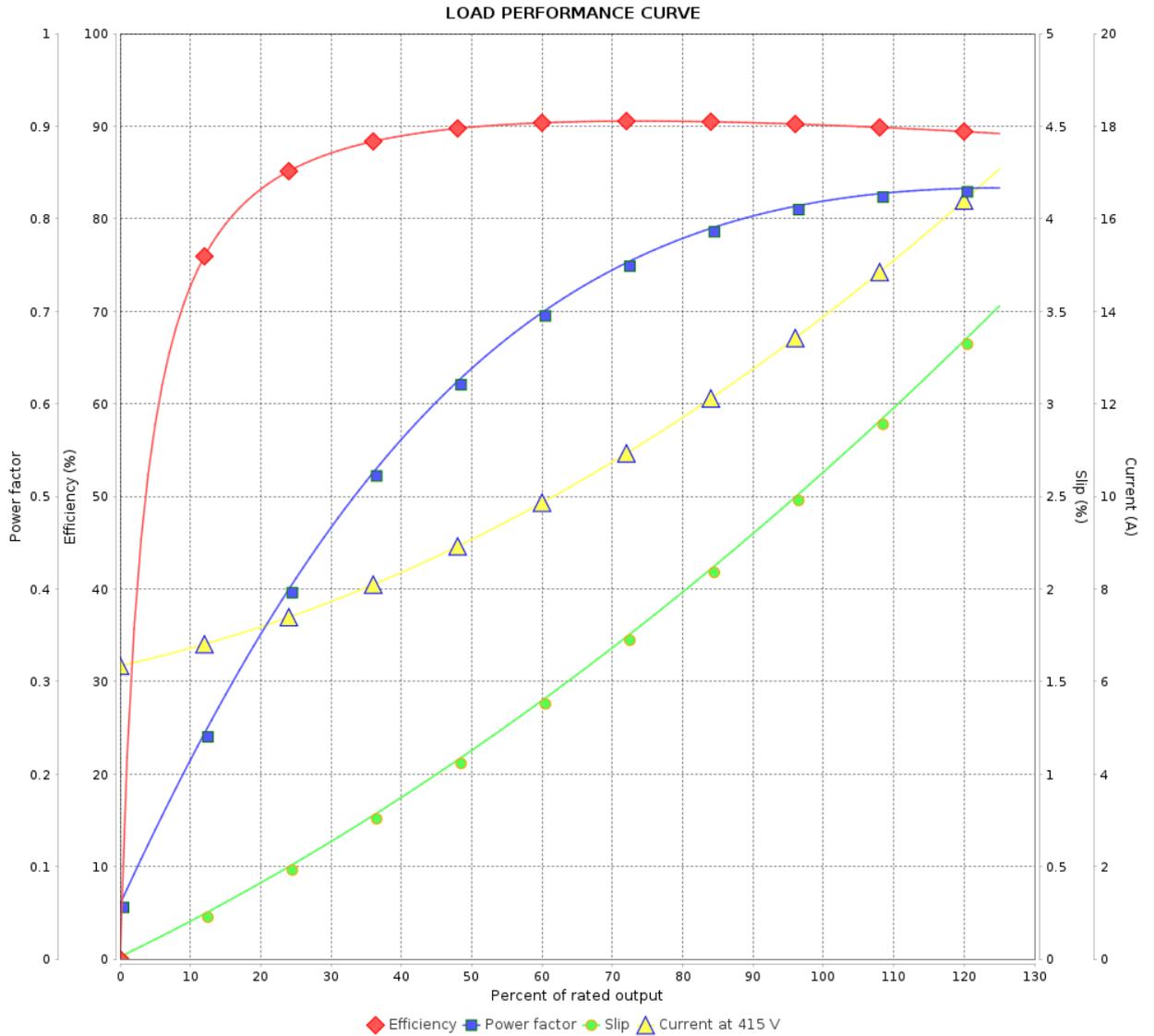
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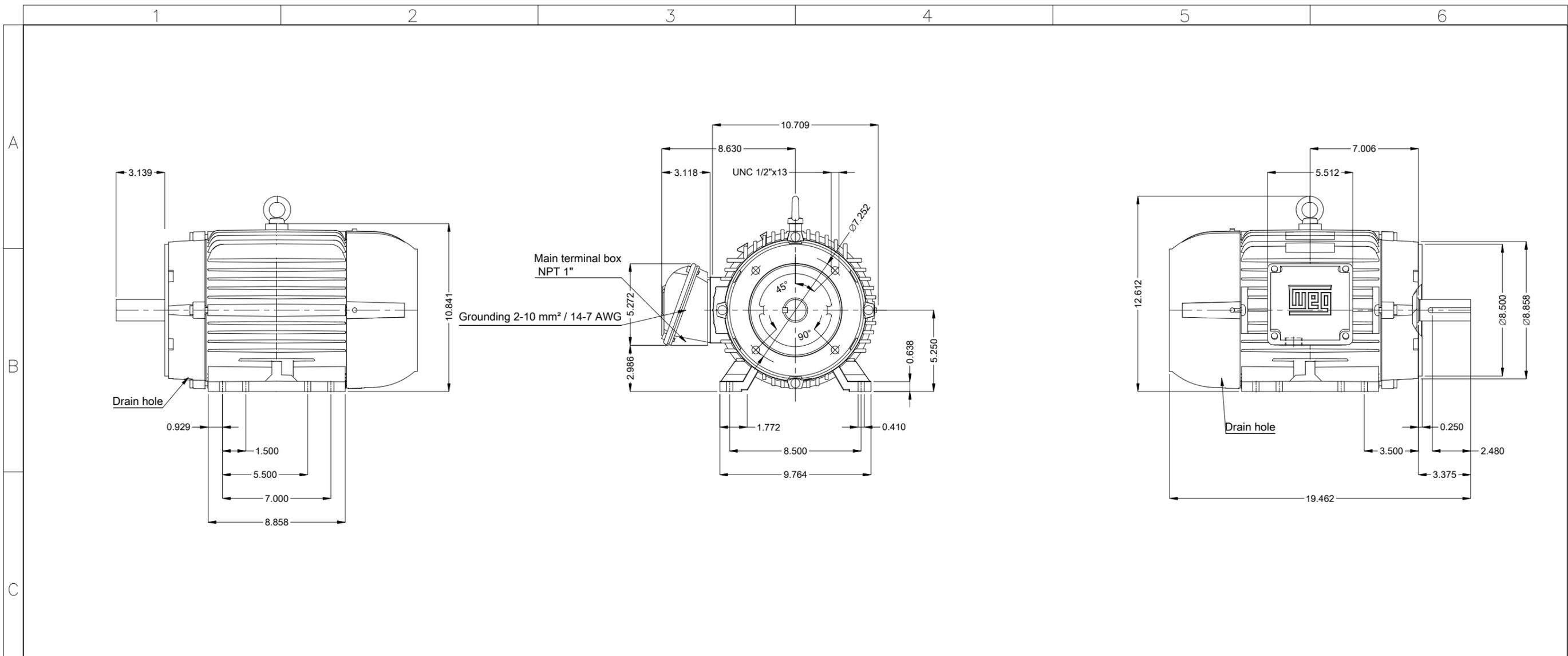
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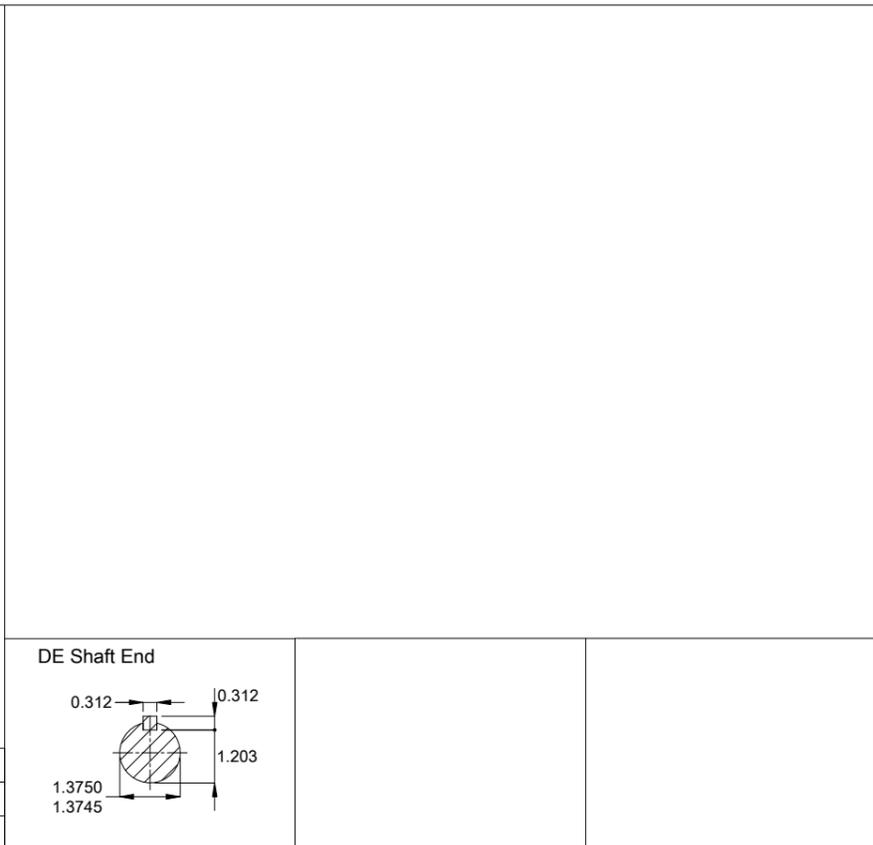
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Color RAL 5009
Painting plan 207A
Mounting B34D



10 HP 04 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				
CHECKED		FRAME 213/5TC IP55 TEFC					WDD	00			
RELEASED							SHEET		1 / 1		
REL. DATE											