

DATA SHEET

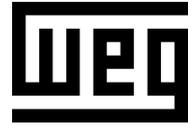
Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 11953402					
Frame : 143/5TC Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : B				Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ³ : 25.5 kg Moment of inertia (J) : 0.0026 kgm ²				
Output [HP]	3	2	2	2	3	3	3	
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]	7.42/3.71	3.24	3.17	3.15	4.44	4.26	4.13	
L. R. Amperes [A]	60.1/30.1	27.9	29.2	29.9	27.1	28.5	29.3	
LRC [A]	8.1x(Code J)	8.6x(Code L)	9.2x(Code M)	9.5x(Code M)	6.1x(Code G)	6.7x(Code H)	7.1x(Code H)	
No load current [A]	2.60/1.30	1.28	1.43	1.55	1.28	1.43	1.55	
Rated speed [RPM]	3460	2890	2905	2910	2820	2840	2850	
Slip [%]	3.89	3.67	3.17	3.00	6.00	5.33	5.00	
Rated torque [kgfm]	0.629	0.502	0.500	0.499	0.772	0.767	0.764	
Locked rotor torque [%]	330	400	459	490	260	300	320	
Breakdown torque [%]	360	400	459	509	260	300	330	
Service factor	1.25	1.25	1.00	1.00	1.25	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K	
Locked rotor time	25s (cold) 14s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)	
Noise level ²	68.0 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%	85.5	81.9	82.0	82.2	84.0	84.5	85.0
	75%	86.5	84.0	84.4	84.8	85.0	85.5	86.0
	100%	86.5	84.8	85.3	85.9	84.6	85.6	86.2
Power Factor	25%							
	50%	0.70	0.63	0.58	0.55	0.76	0.72	0.69
	75%	0.81	0.76	0.72	0.69	0.85	0.82	0.80
	100%	0.86	0.83	0.80	0.77	0.89	0.87	0.86
Losses at normative operating points (speed;torque), in percentage of rated output power								
Losses (%)	P1 (0,9;1,0)	14.8	14.8	14.8	14.8	14.8	14.8	14.8
	P2 (0,5;1,0)	12.3	12.3	12.3	12.3	12.3	12.3	12.3
	P3 (0,25;1,0)	11.7	11.7	11.7	11.7	11.7	11.7	11.7
	P4 (0,9;0,5)	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	P5 (0,5;0,5)	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	P6 (0,5;0,25)	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	P7 (0,25;0,25)	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Bearing type	: Drive end : 6205 ZZ	: Non drive end : 6204 ZZ	Foundation loads					
Sealing	: V'Ring	: V'Ring	Max. traction : 59 kgf					
Lubrication interval	: -	: -	Max. compression : 84 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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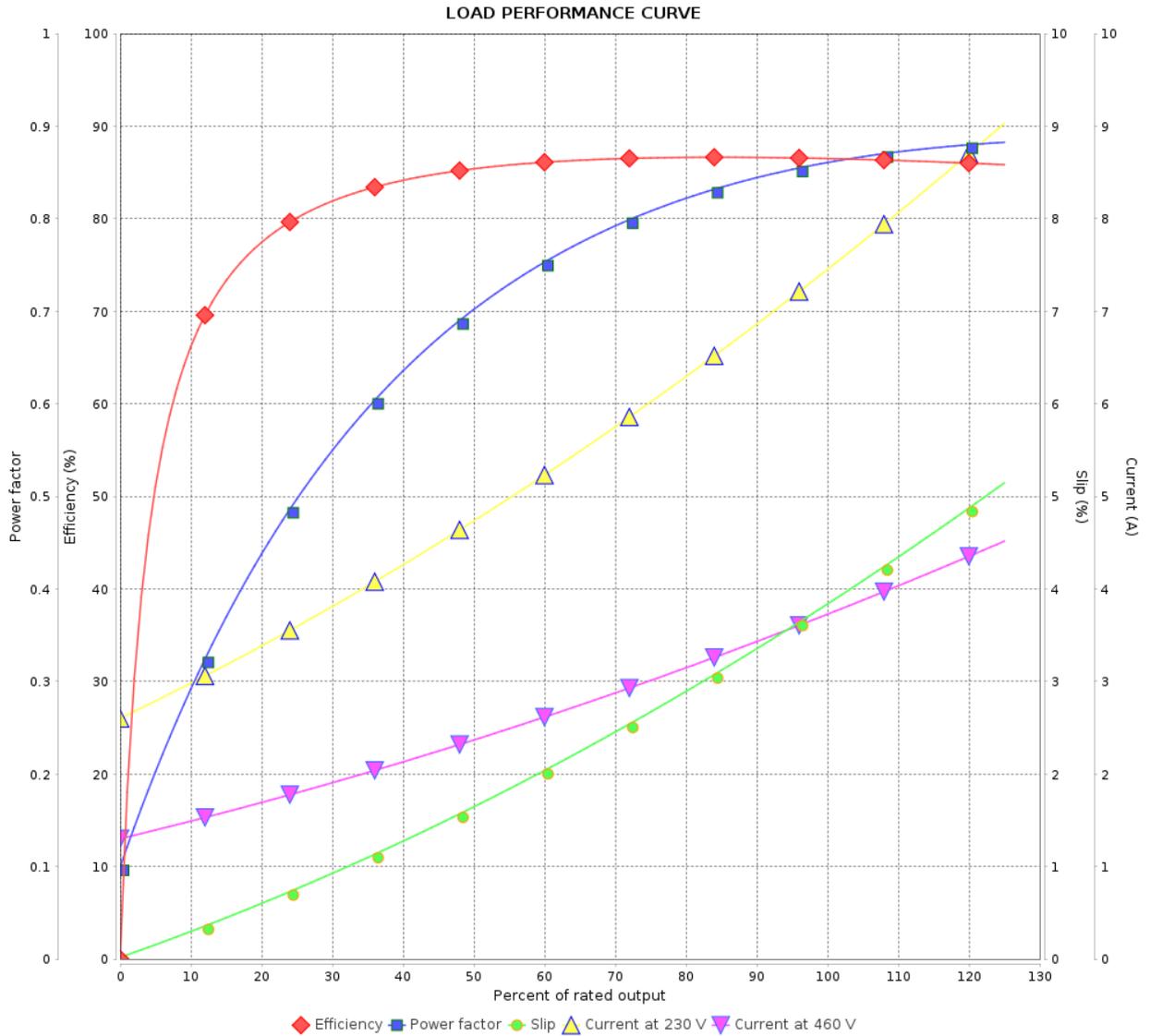
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Three-Phase

Product code : 11953402



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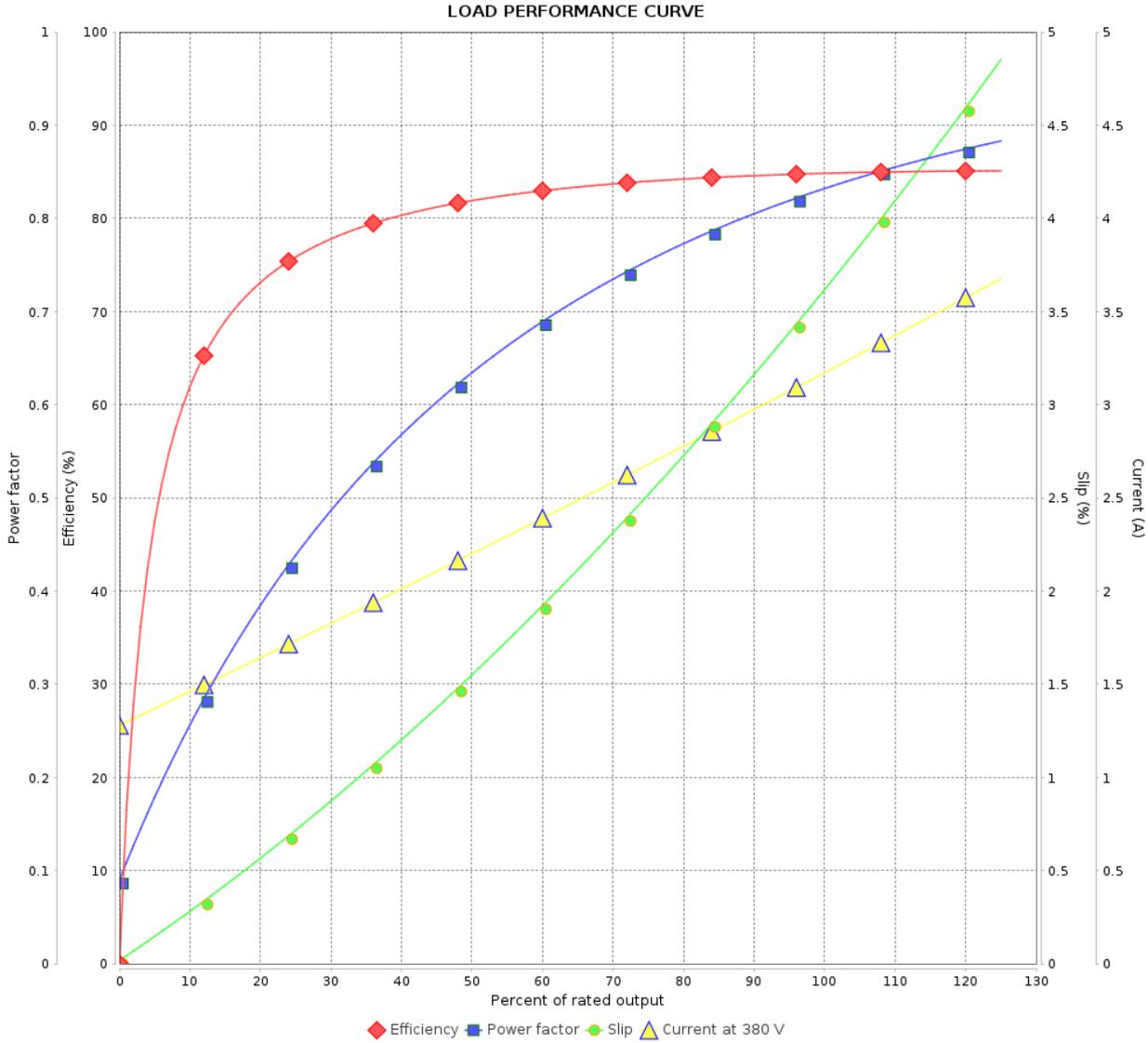
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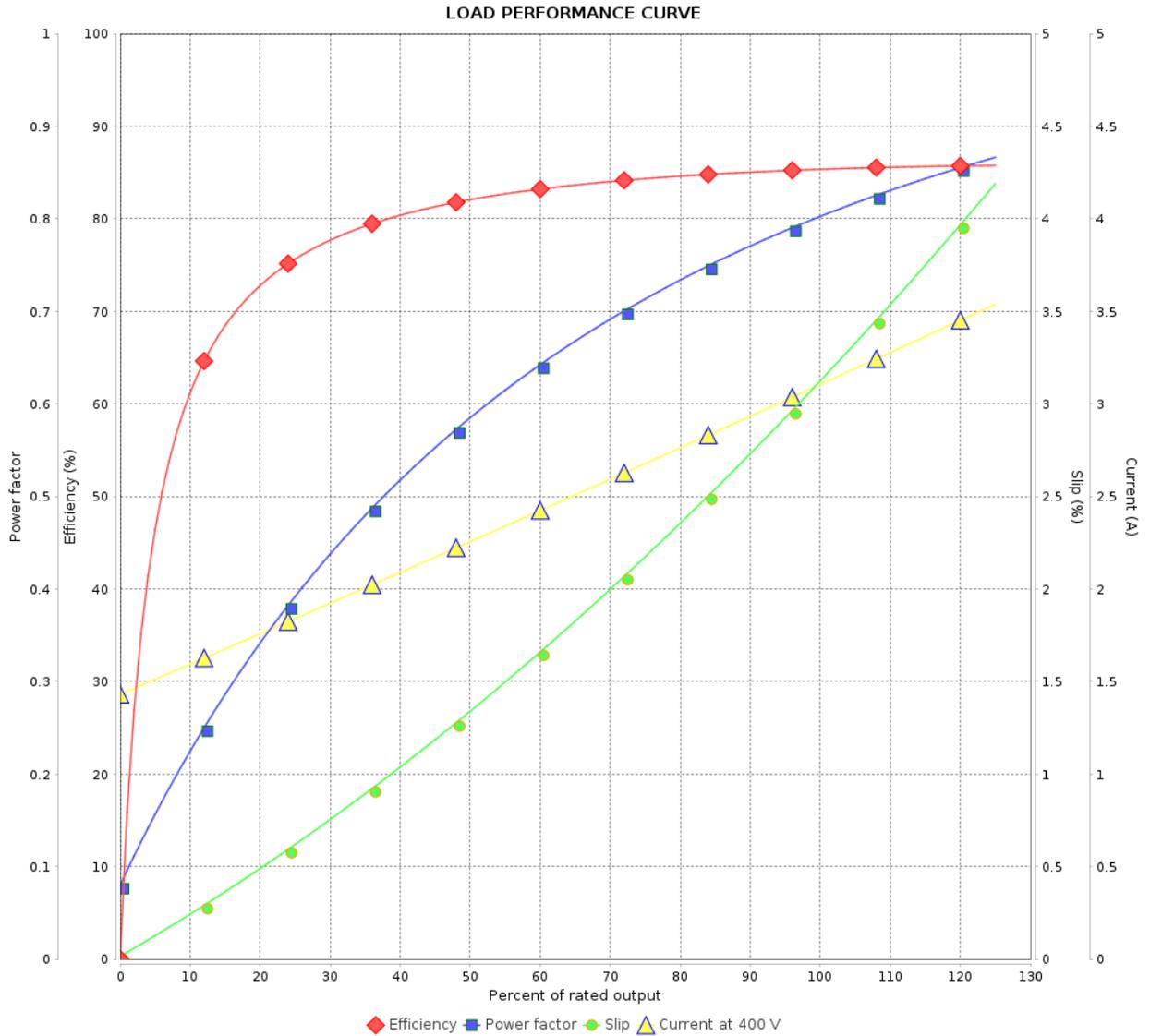
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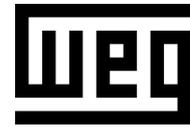
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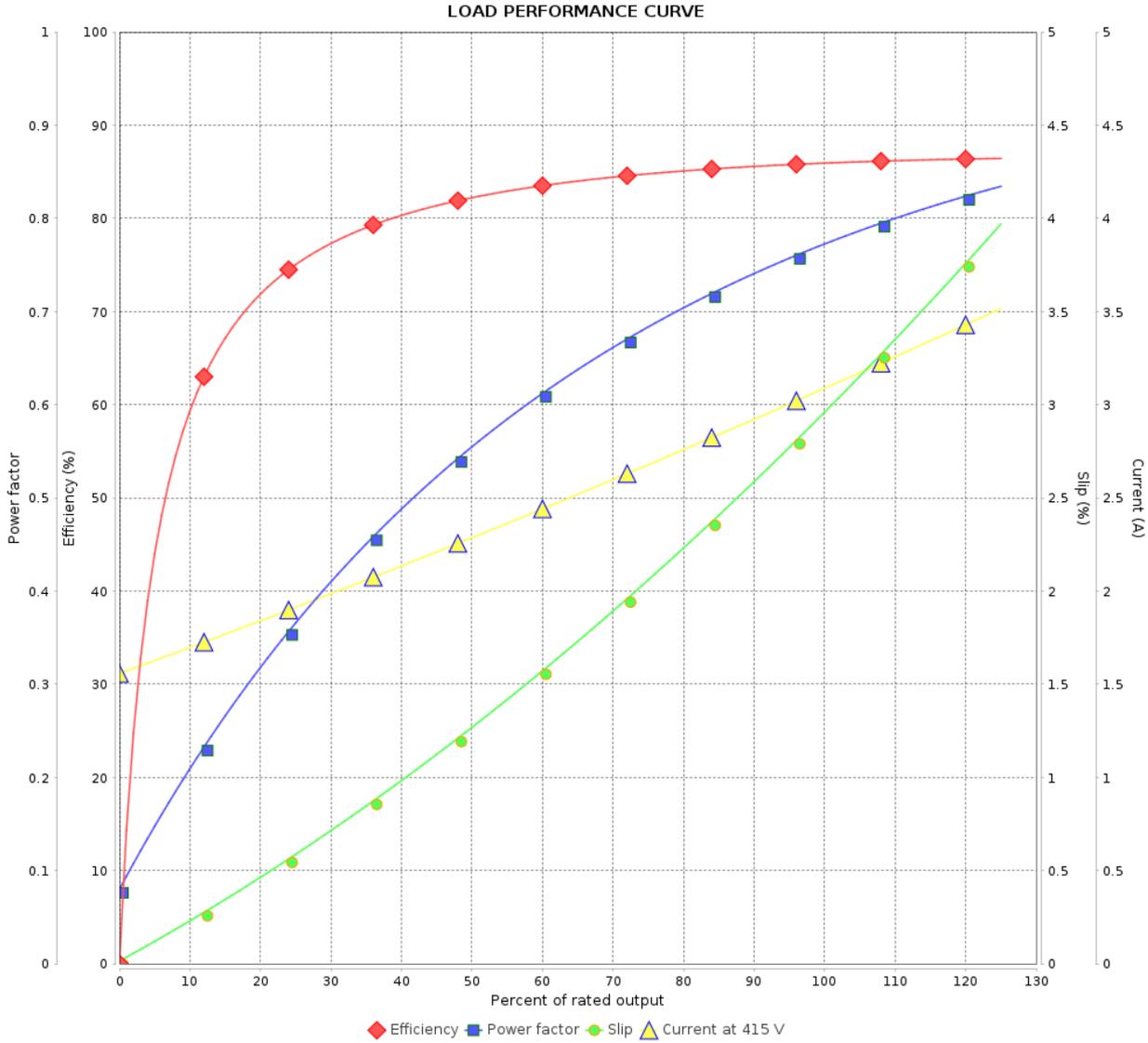
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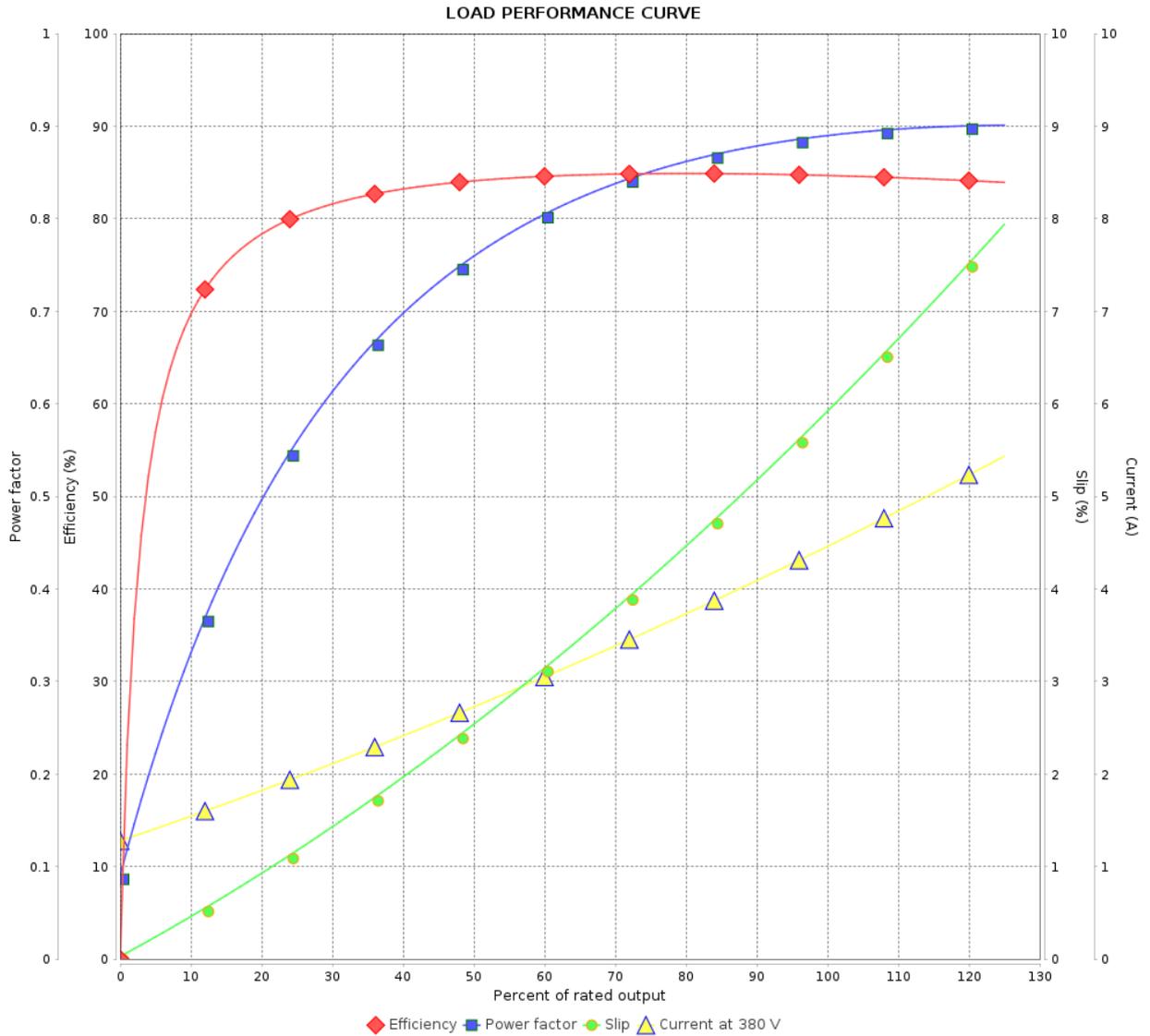
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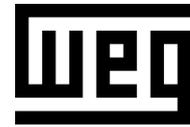
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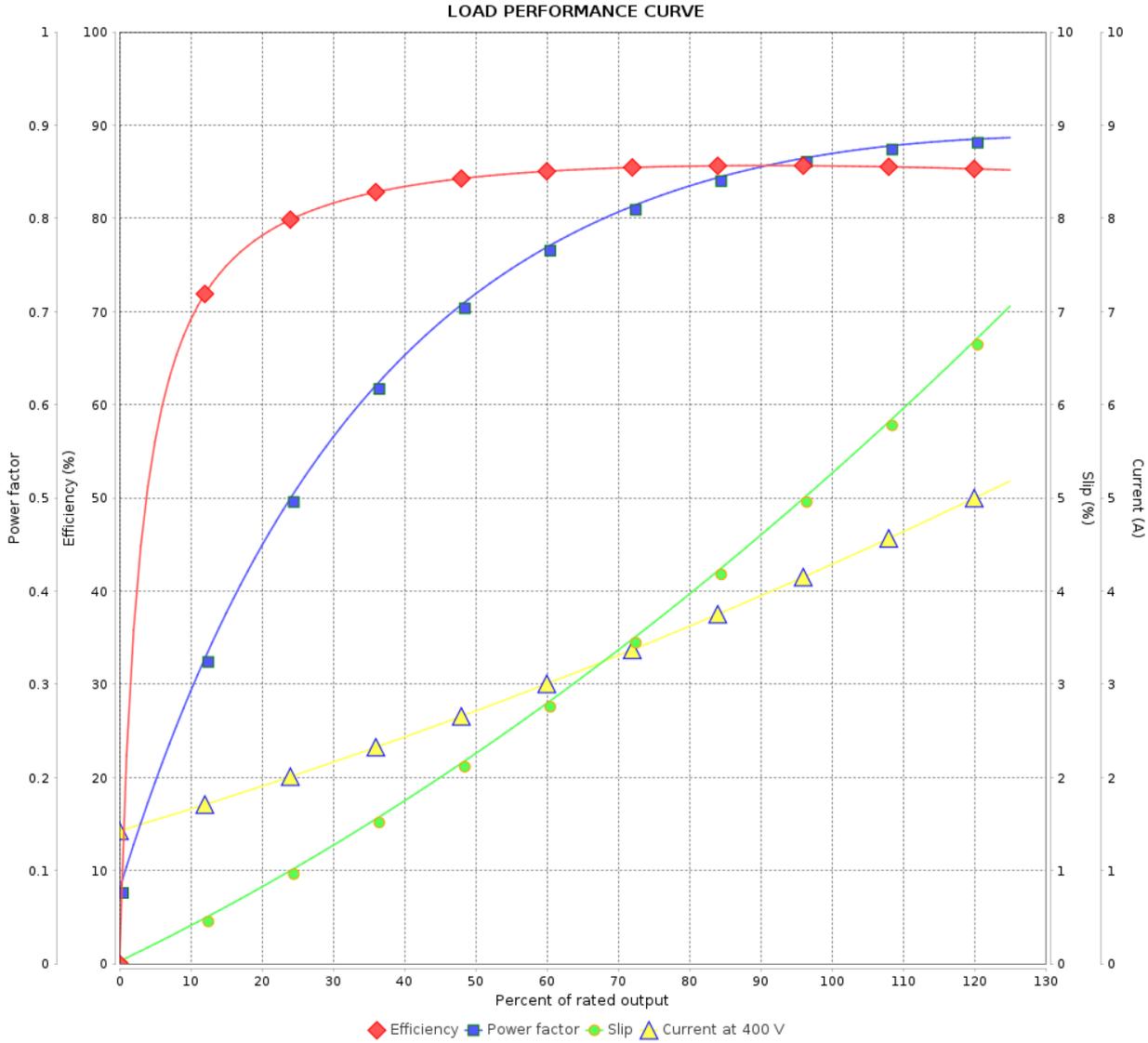
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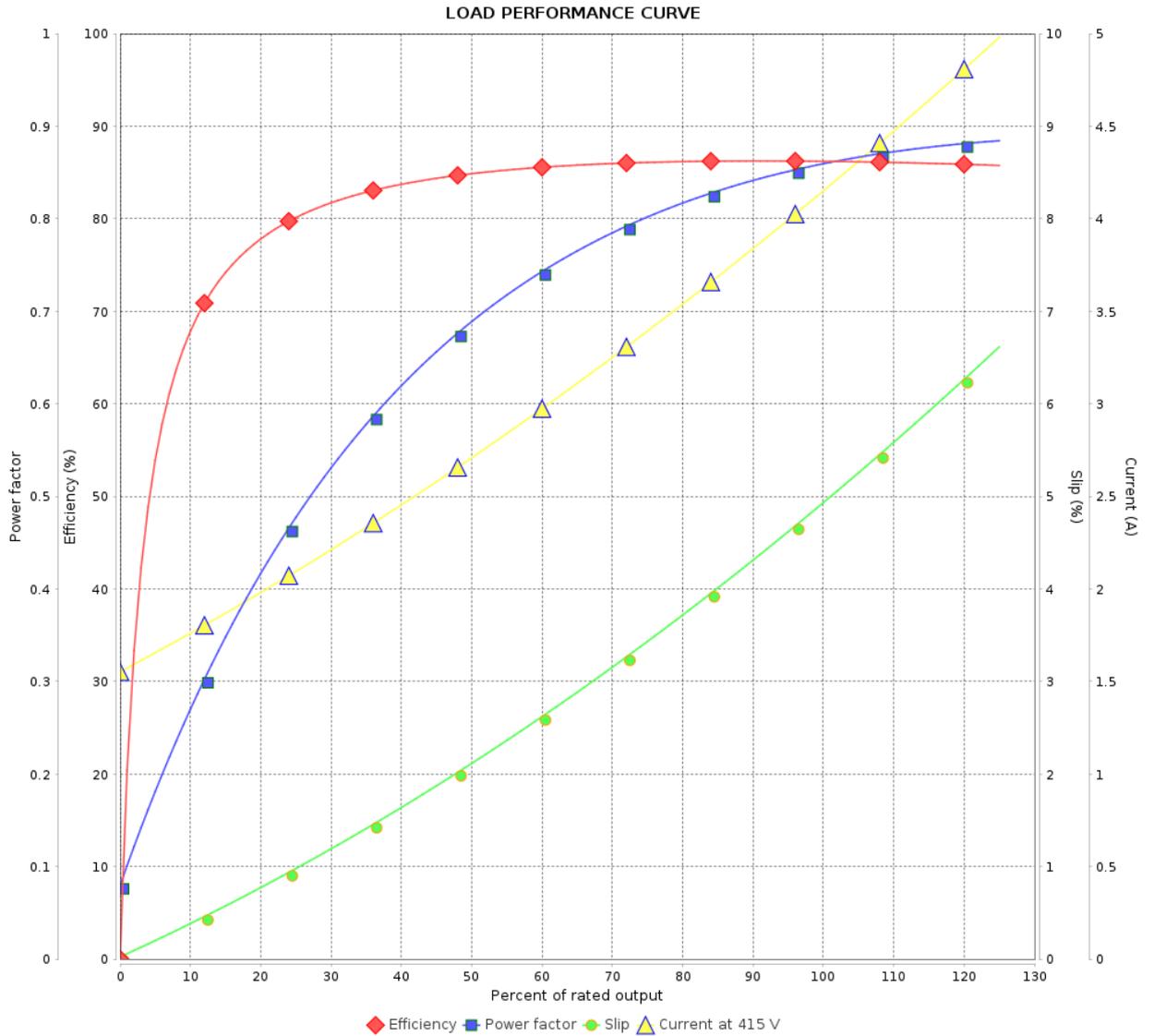
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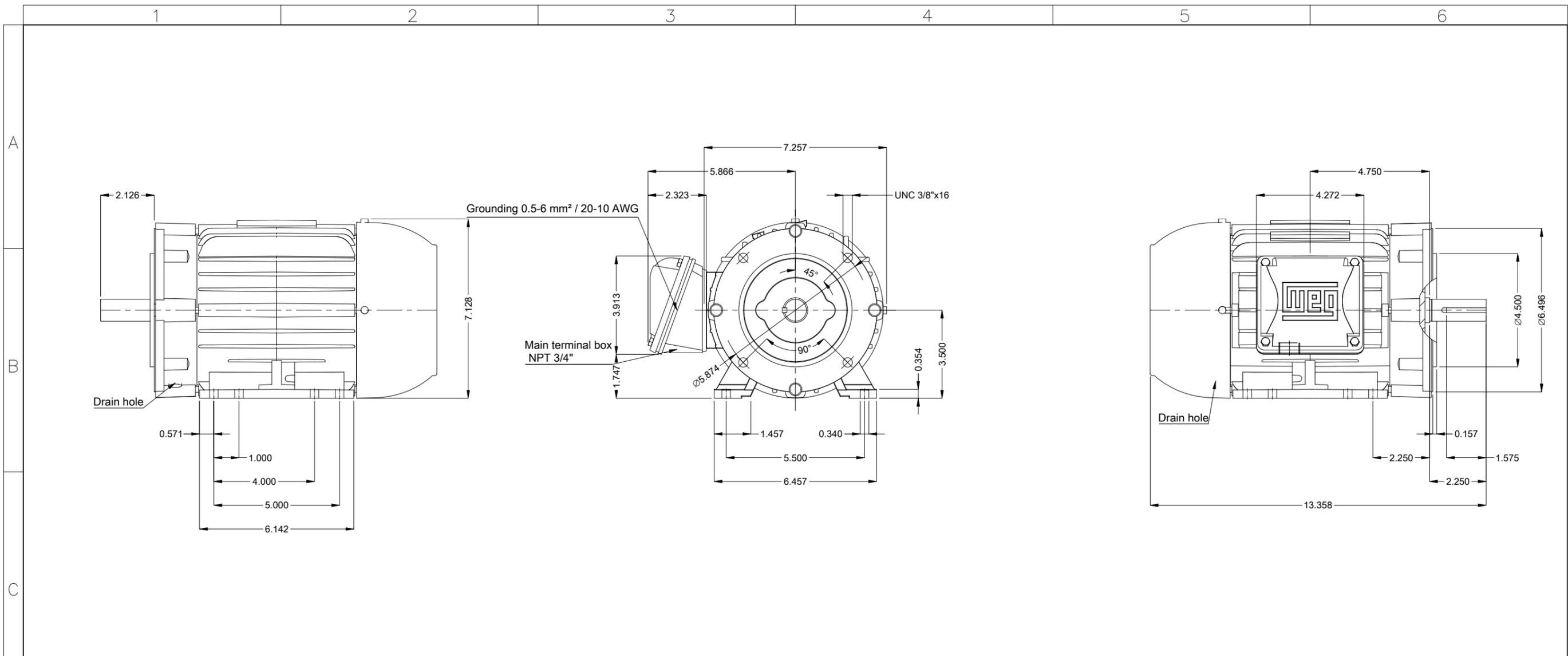
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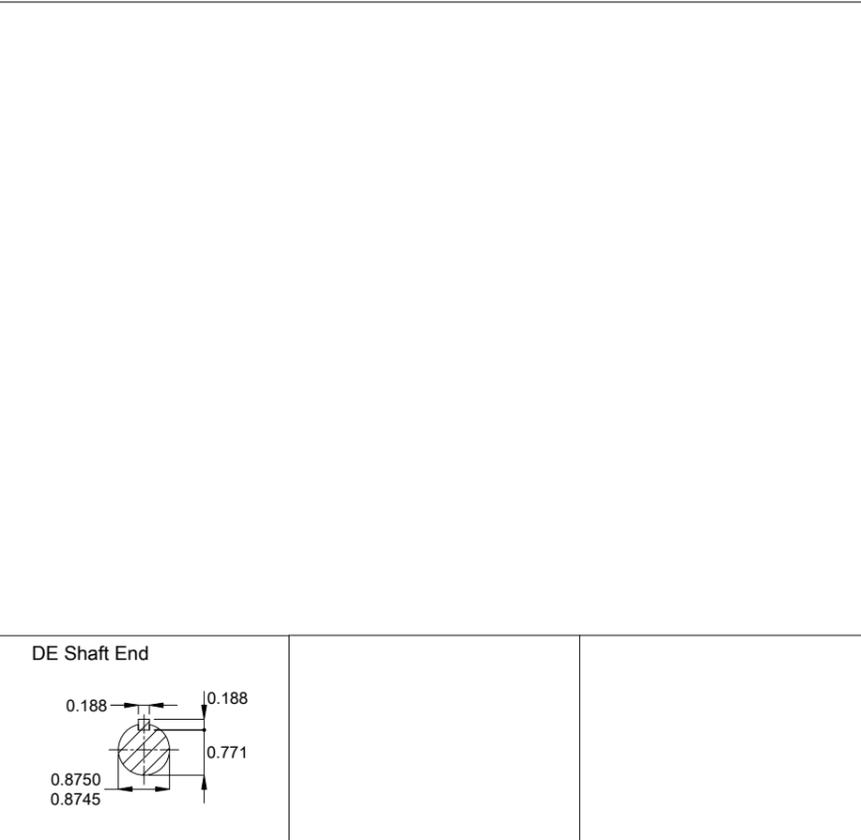
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Color RAL 5009
 Painting plan 207A
 Mounting B34D



3 HP 02 Poles 60 Hz										A	
Scale 1 : 4											
HYBRISUSER										00	
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 NEMA PREM. EFF.						PREVIEW			
CHECKED		FRAME 143/5TC IP55 TEFC						WDD	00		
RELEASED								SHEET	1 / 1		
REL. DATE											