

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line		: W22 NEMA Premium Efficiency Three-Phase			Product code :		11456825	
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 : 24.9 kg Moment of inertia (J) : 0.0067 kgm ²				
Output [HP]	1	0.75	0.75	0.75	1	1	1	
Poles	6	6	6	6	6	6	6	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	230/460	380	400	415	380	400	415	
Rated current [A]	3.46/1.73	1.60	1.62	1.66	1.96	1.94	1.95	
L. R. Amperes [A]	21.5/10.7	9.28	9.88	10.5	9.41	10.1	10.7	
LRC [A]	6.2x(Code K)	5.8x(Code K)	6.1x(Code L)	6.3x(Code M)	4.8x(Code G)	5.2x(Code H)	5.5x(Code J)	
No load current [A]	2.20/1.10	1.05	1.15	1.25	1.05	1.15	1.25	
Rated speed [RPM]	1160	960	970	970	940	950	950	
Slip [%]	3.33	4.00	3.00	3.00	6.00	5.00	5.00	
Rated torque [kgfm]	0.626	0.567	0.561	0.561	0.772	0.764	0.764	
Locked rotor torque [%]	260	280	300	320	200	229	250	
Breakdown torque [%]	300	310	330	340	220	260	280	
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00	
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)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	
Noise level ²	50.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	
Efficiency (%)	25%							
	50%	77.0	74.8	73.2	70.7	77.0	74.0	
	75%	82.0	78.4	77.5	75.8	80.0	78.5	
	100%	82.5	79.3	78.9	77.9	78.5	78.5	
Power Factor	25%							
	50%	0.45	0.44	0.41	0.38	0.53	0.46	
	75%	0.57	0.57	0.53	0.50	0.66	0.59	
	100%	0.66	0.66	0.62	0.59	0.74	0.68	
Losses at normative operating points (speed;torque), in percentage of rated output power								
Losses (%)	P1 (0,9;1,0)	20.0	20.0	20.0	20.0	20.0	20.0	
	P2 (0,5;1,0)	16.7	16.7	16.7	16.7	16.7	16.7	
	P3 (0,25;1,0)	16.9	16.9	16.9	16.9	16.9	16.9	
	P4 (0,9;0,5)	12.6	12.6	12.6	12.6	12.6	12.6	
	P5 (0,5;0,5)	9.2	9.2	9.2	9.2	9.2	9.2	
	P6 (0,5;0,25)	7.6	7.6	7.6	7.6	7.6	7.6	
	P7 (0,25;0,25)	5.8	5.8	5.8	5.8	5.8	5.8	
Bearing type	: Drive end : 6205 ZZ	Non drive end : 6204 ZZ		Foundation loads				
Sealing	: V'Ring	V'Ring		Max. traction		: 48 kgf		
Lubrication interval	: -	-		Max. compression		: 73 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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Notes
USABLE @208V 3.82A SF 1.15 SFA 4.39A

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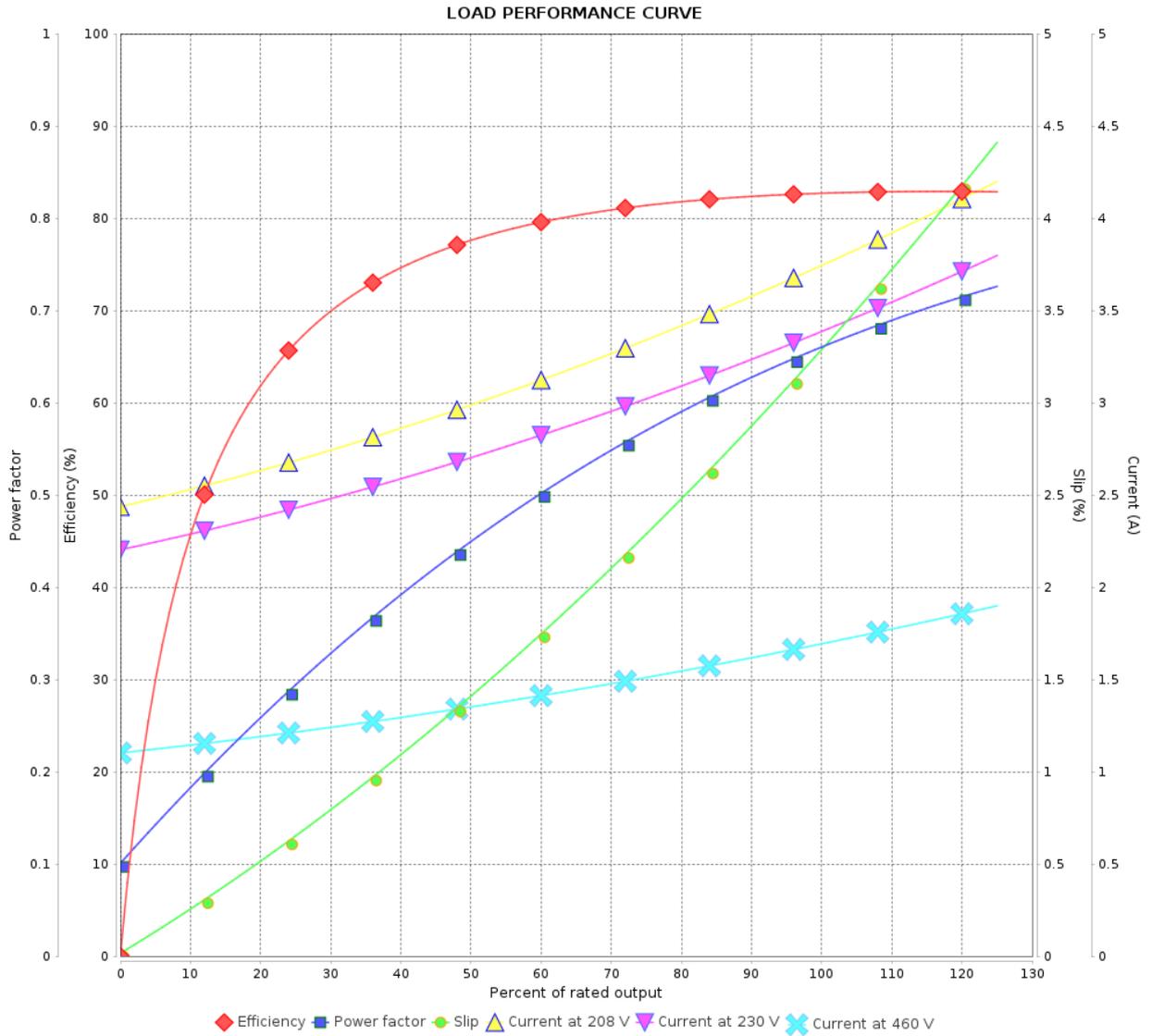
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Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11456825



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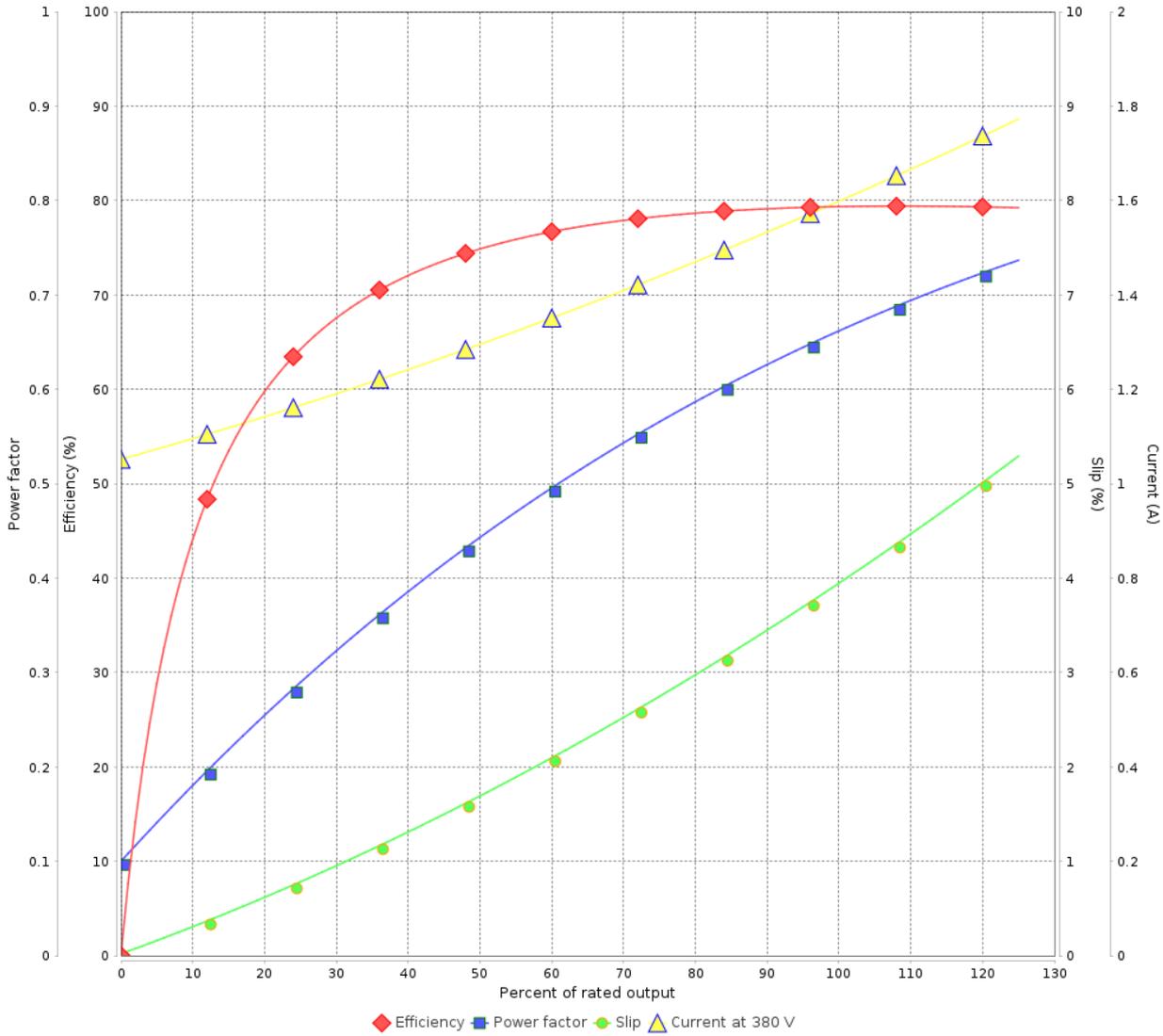
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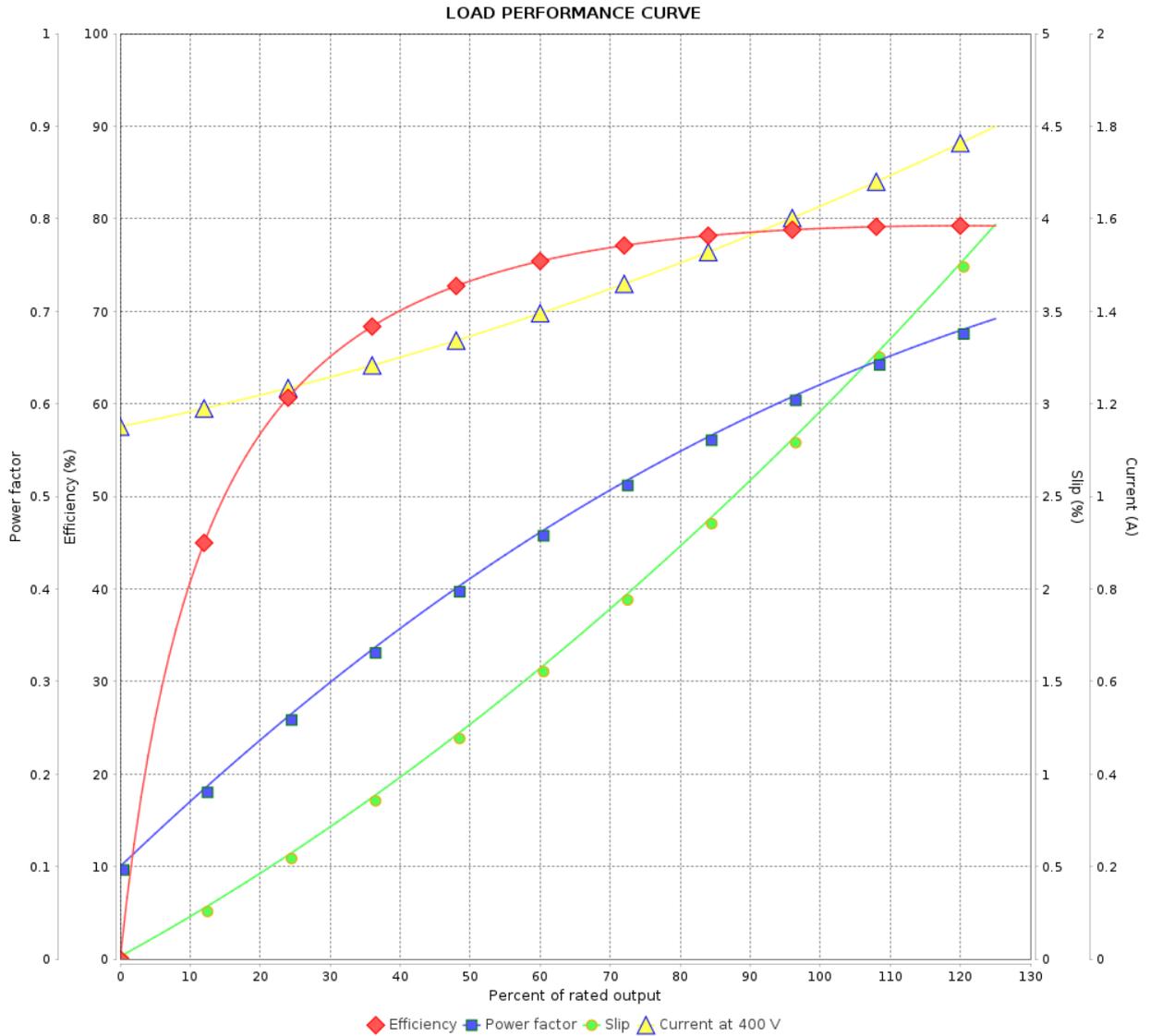
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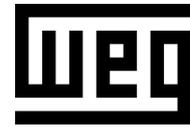
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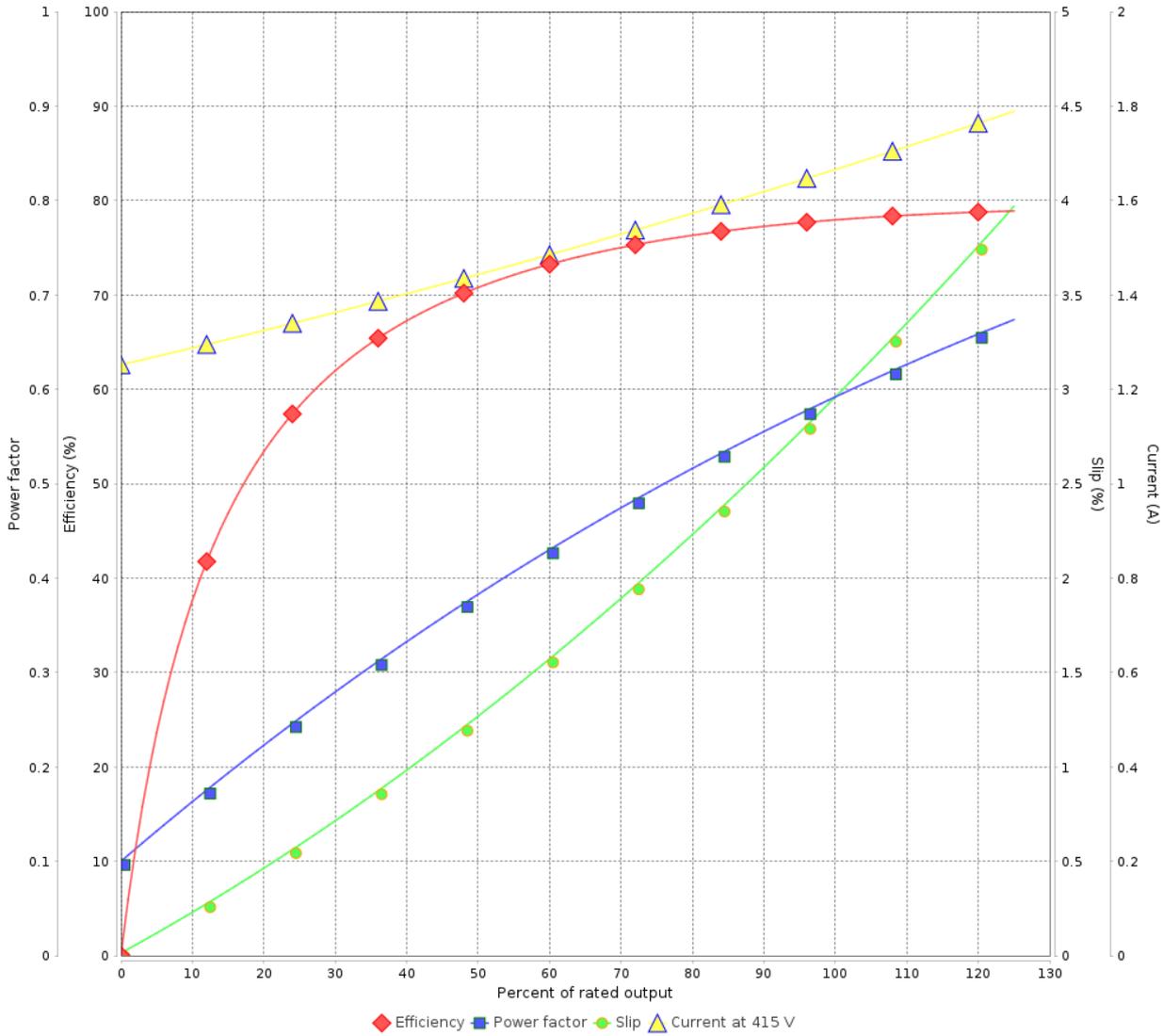
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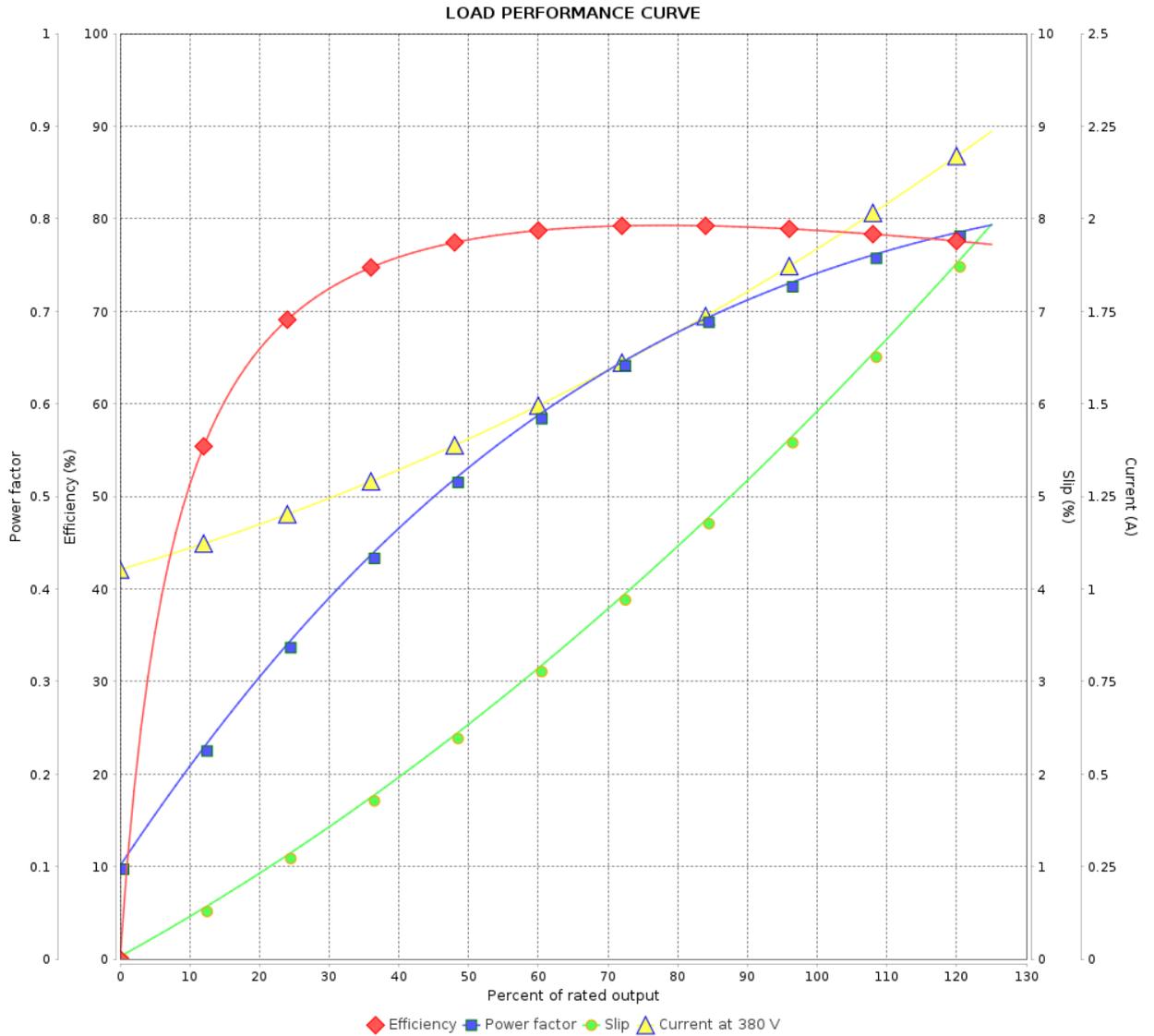
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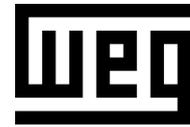
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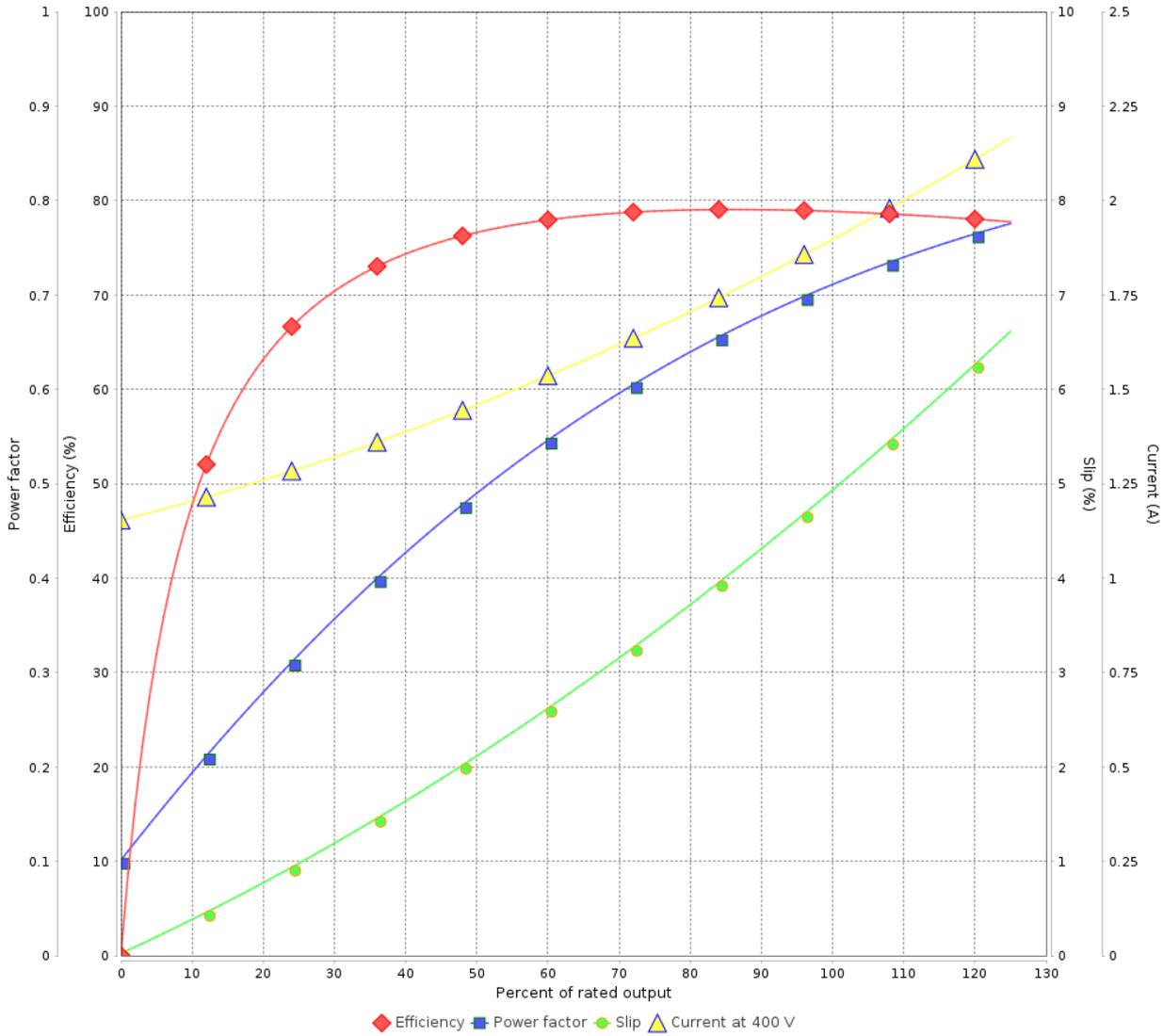
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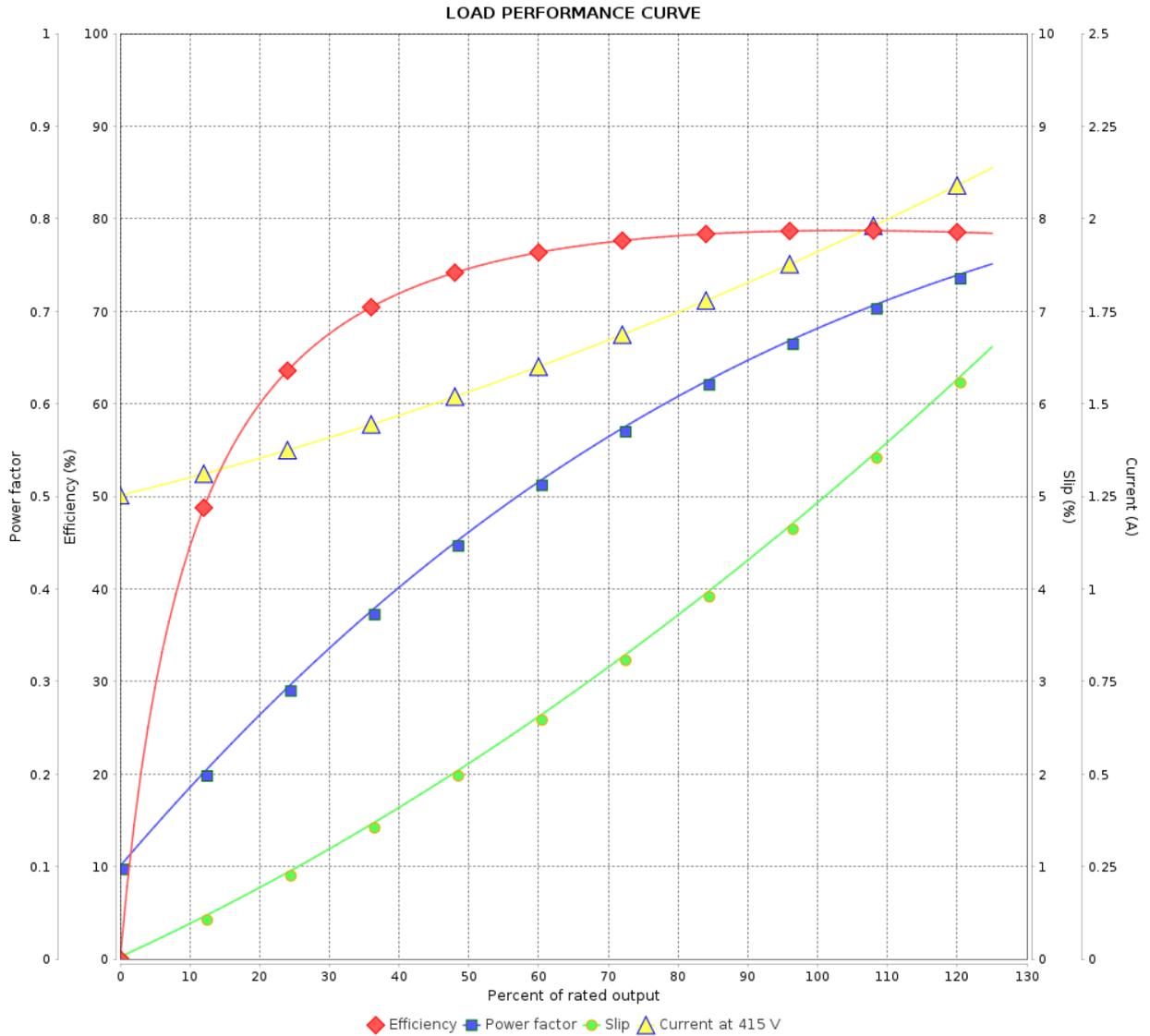
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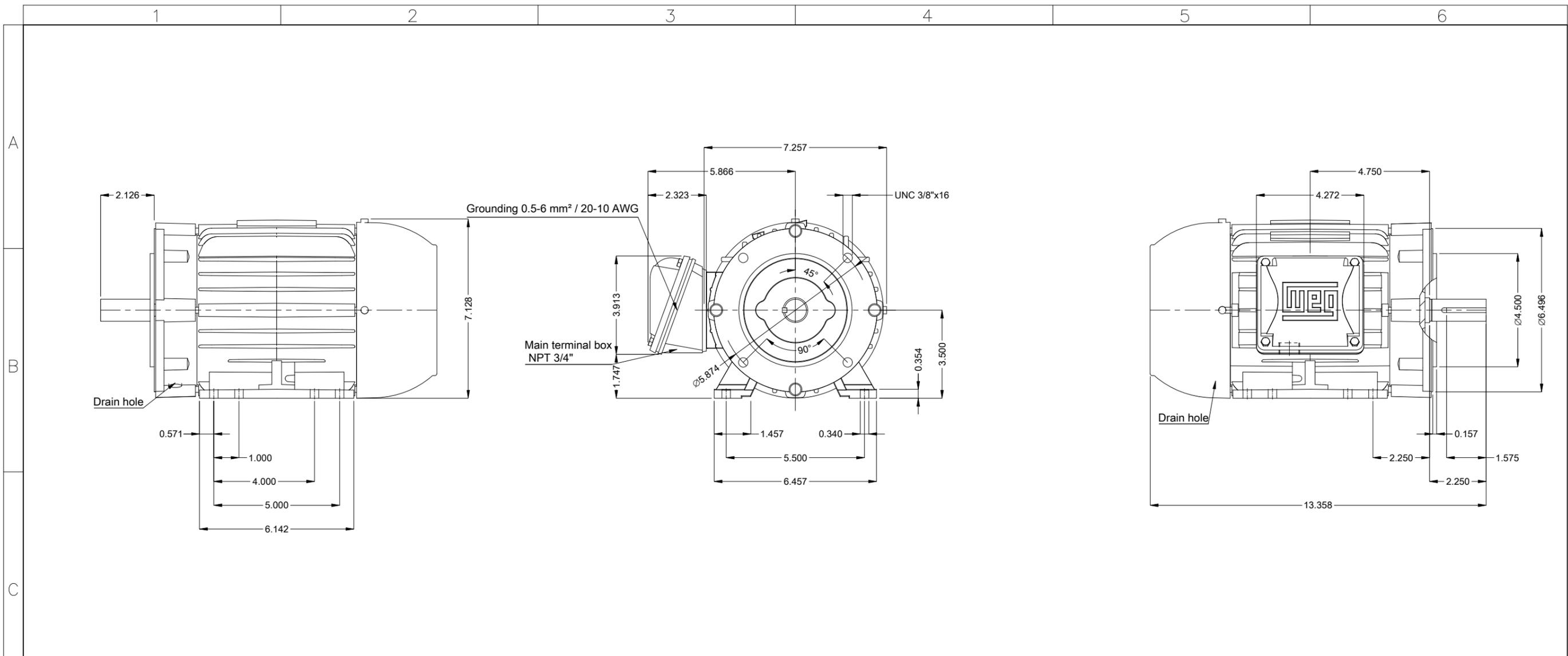
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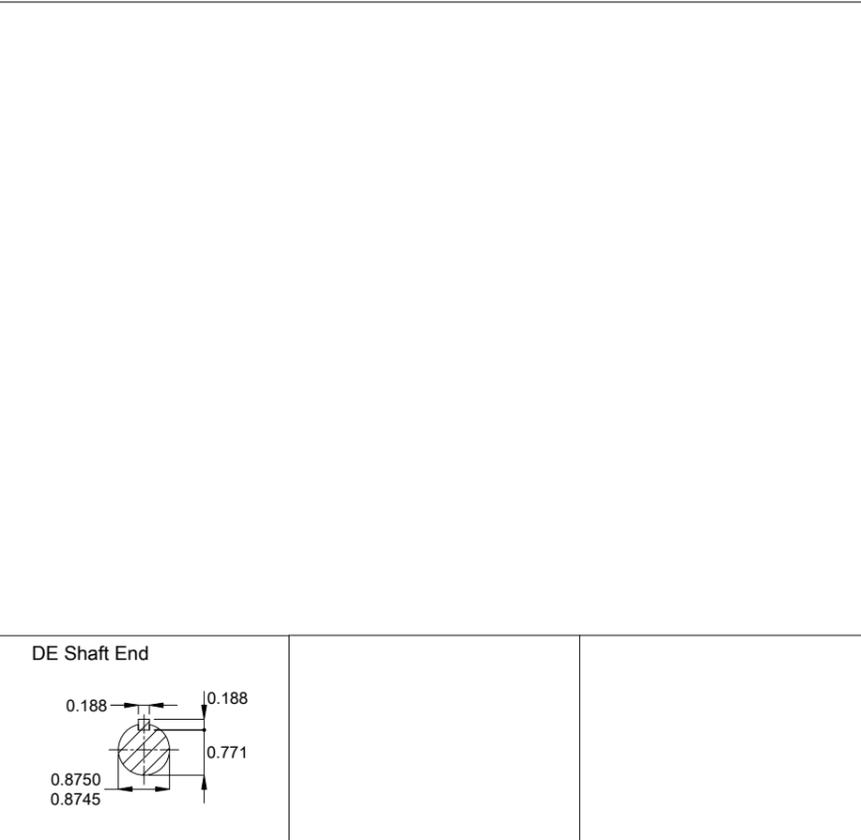
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Color RAL 5009
 Painting plan 207A
 Mounting B34D



1 HP 06 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											