

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11535528
Catalog # : CT010502NPW22

Frame	: 213/5TC	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 9.28 A	Protection degree	: IP55
L. R. Amperes	: 66.8 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: F-1
No load current	: 2.80 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 14.9 ft.lb	Approx. weight ³	: 163 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.6362 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	89.5	90.2	90.2	Max. traction	: 157 lb
Power Factor	0.79	0.87	0.90	Max. compression	: 329 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
10.6	8.9	8.2	5.1	3.3	2.0	1.3

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6308 ZZ	: 6207 ZZ
Sealing	: V'Ring	: V'Ring
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	: 00088	

Notes

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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

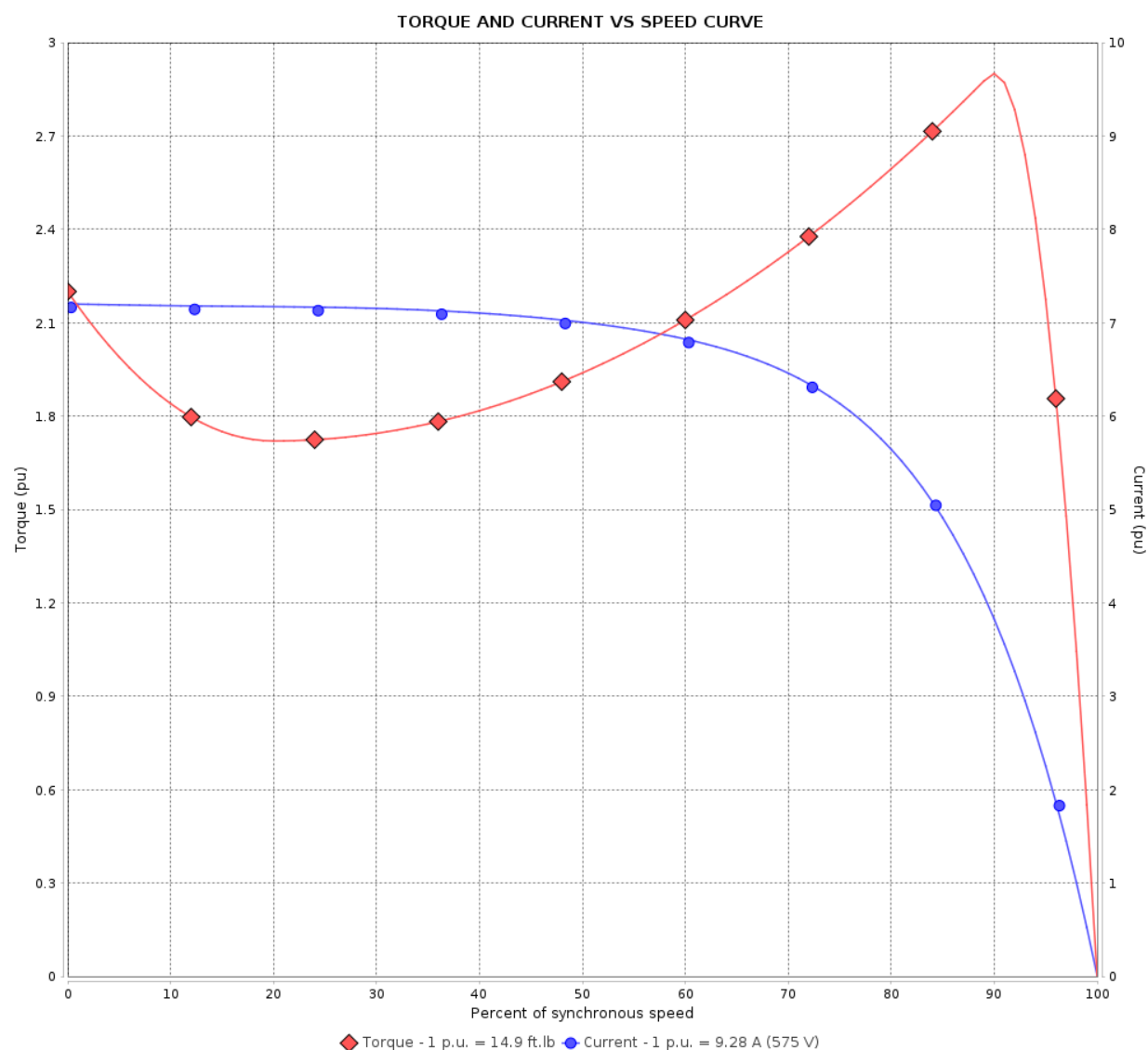


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Catalog # : CT010502NPW22



Performance : 575 V 60 Hz 2P

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LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 14.9 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

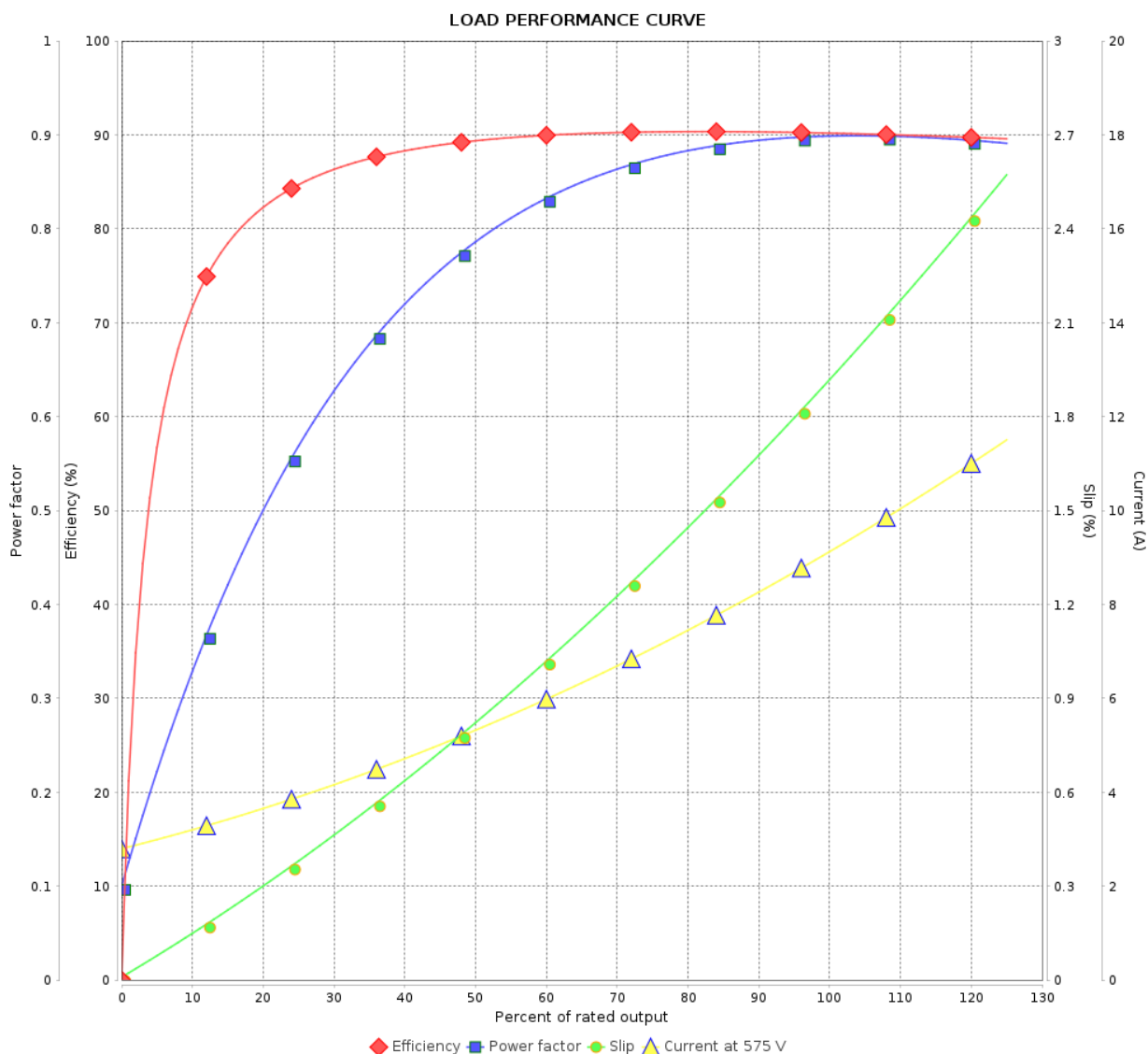


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THERMAL LIMIT CURVE

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Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

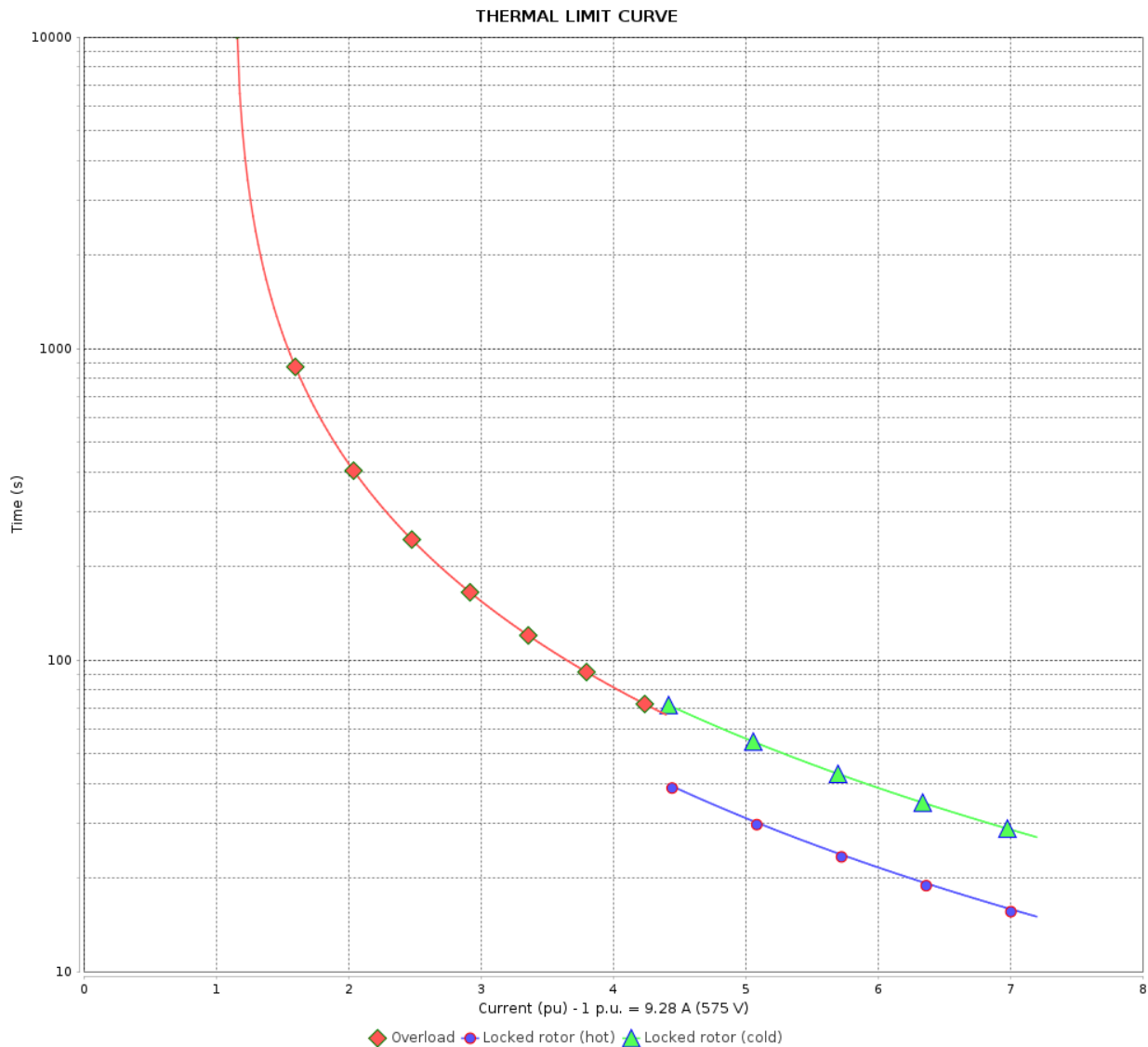
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

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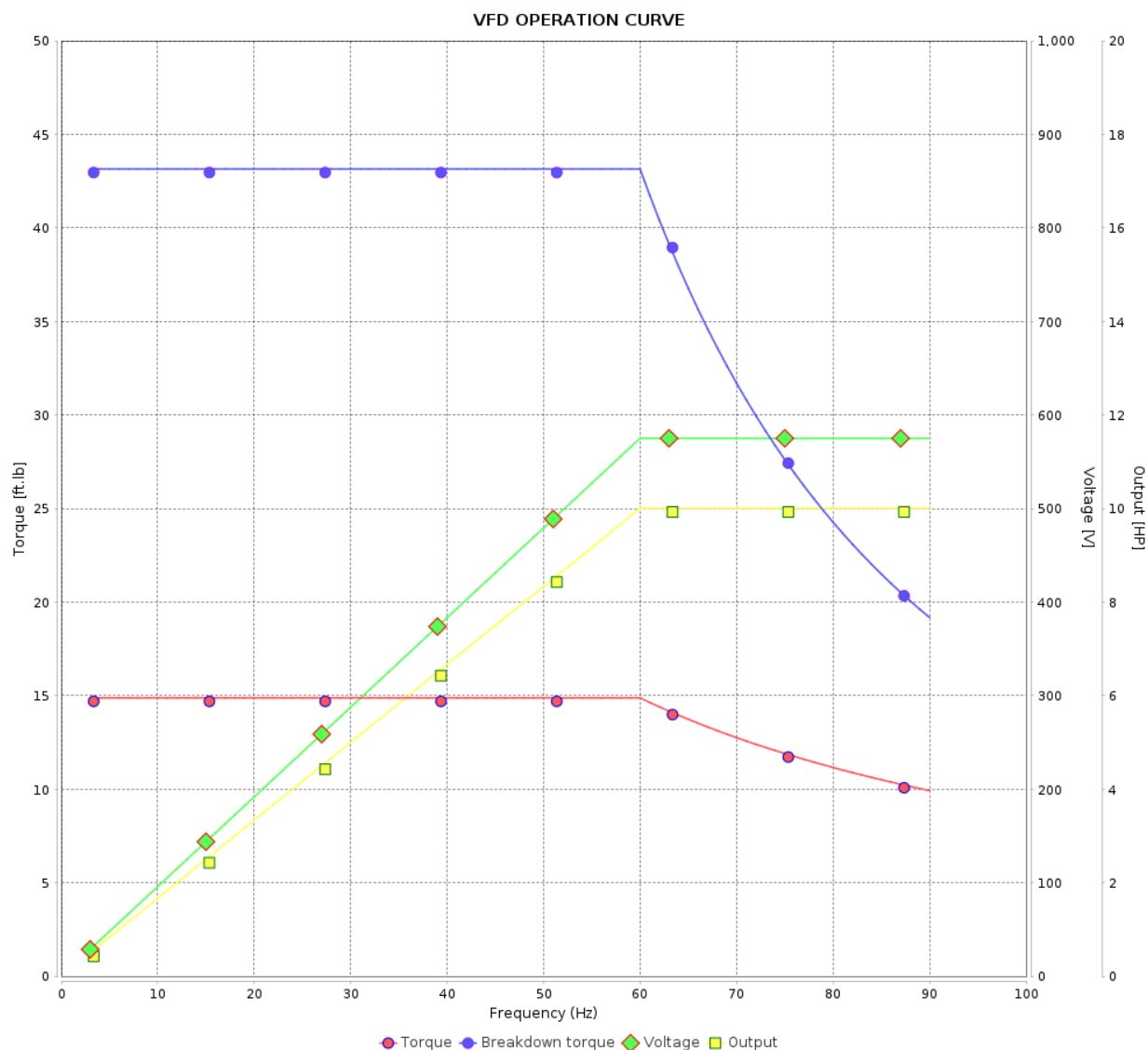


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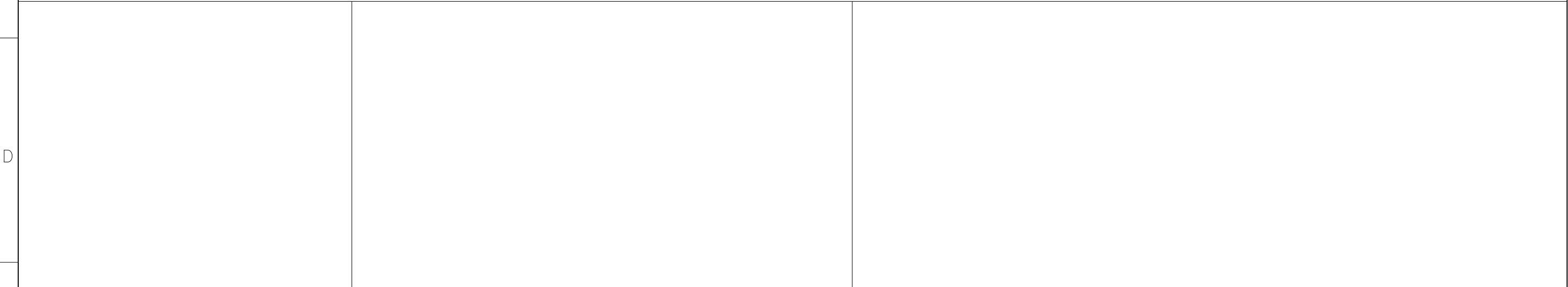
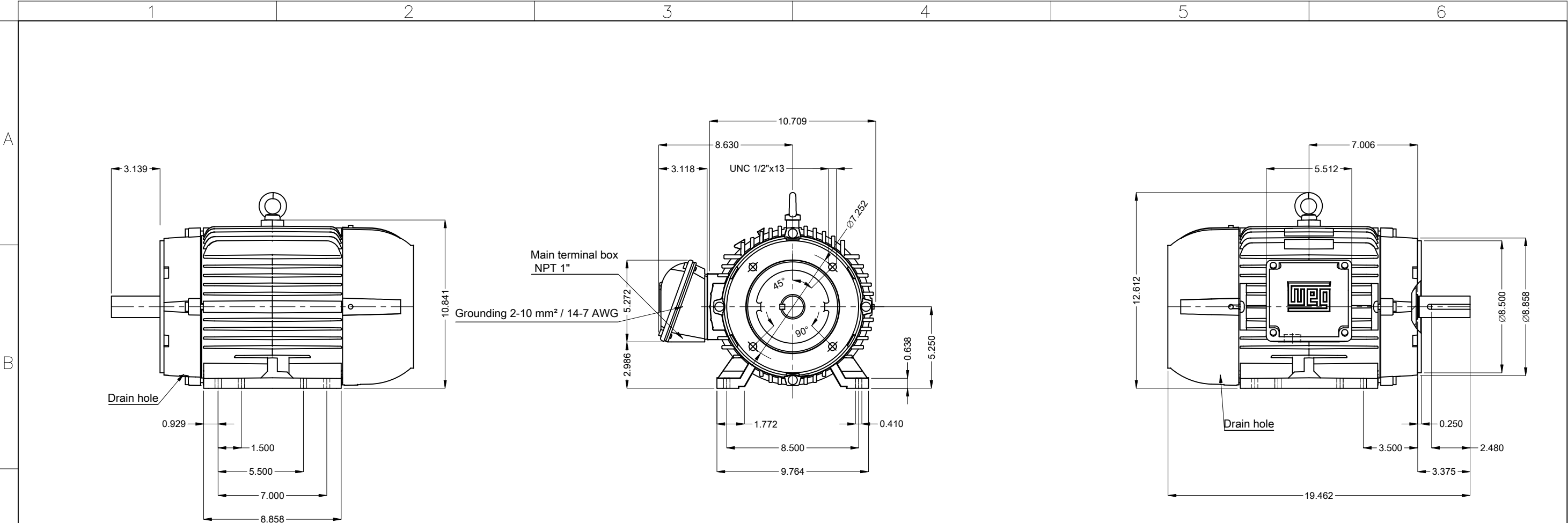


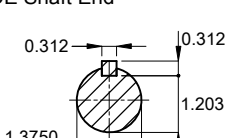
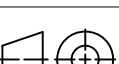
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										Scale 2 : 13										
										HYBRISUSER			00							
	ECM		LOC	SUMMARY OF MODIFICATIONS						EXECUTED		CHECKED		RELEASED		DATE		VER		
	EXECUTED		HYBRISUSER																	
	CHECKED																			
	RELEASED																			
	REL. DATE																			
Color RAL 5009			DE Shaft End 											THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 213/5TC IP55 TEFC			PREVIEW			
WDD		00																		
SHEET		1 / 1																		
Painting plan 207A																				
Mounting B34D																				