

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11993105
Catalog # : CT015402NPW22215T

Frame	: 213/5TC	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 15 HP (11 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 34.9/17.4 A	Protection degree	: IP55
L. R. Amperes	: 307/153 A	Cooling method	: IC411 - TEFC
LRC	: 8.8x(Code K)	Mounting	: F-1
No load current	: 13.2/6.60 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3535 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.81 %	Starting method	: Direct On Line
Rated torque	: 22.3 ft.lb	Approx. weight ³	: 163 lb
Locked rotor torque	: 280 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.6362 sq.ft.lb		
Design	: A		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	89.0	90.5	91.0	Max. traction	: 365 lb
Power Factor	0.73	0.82	0.87	Max. compression	: 545 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)
9.8	8.0	7.0	5.2	3.4	2.3	1.5

	<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

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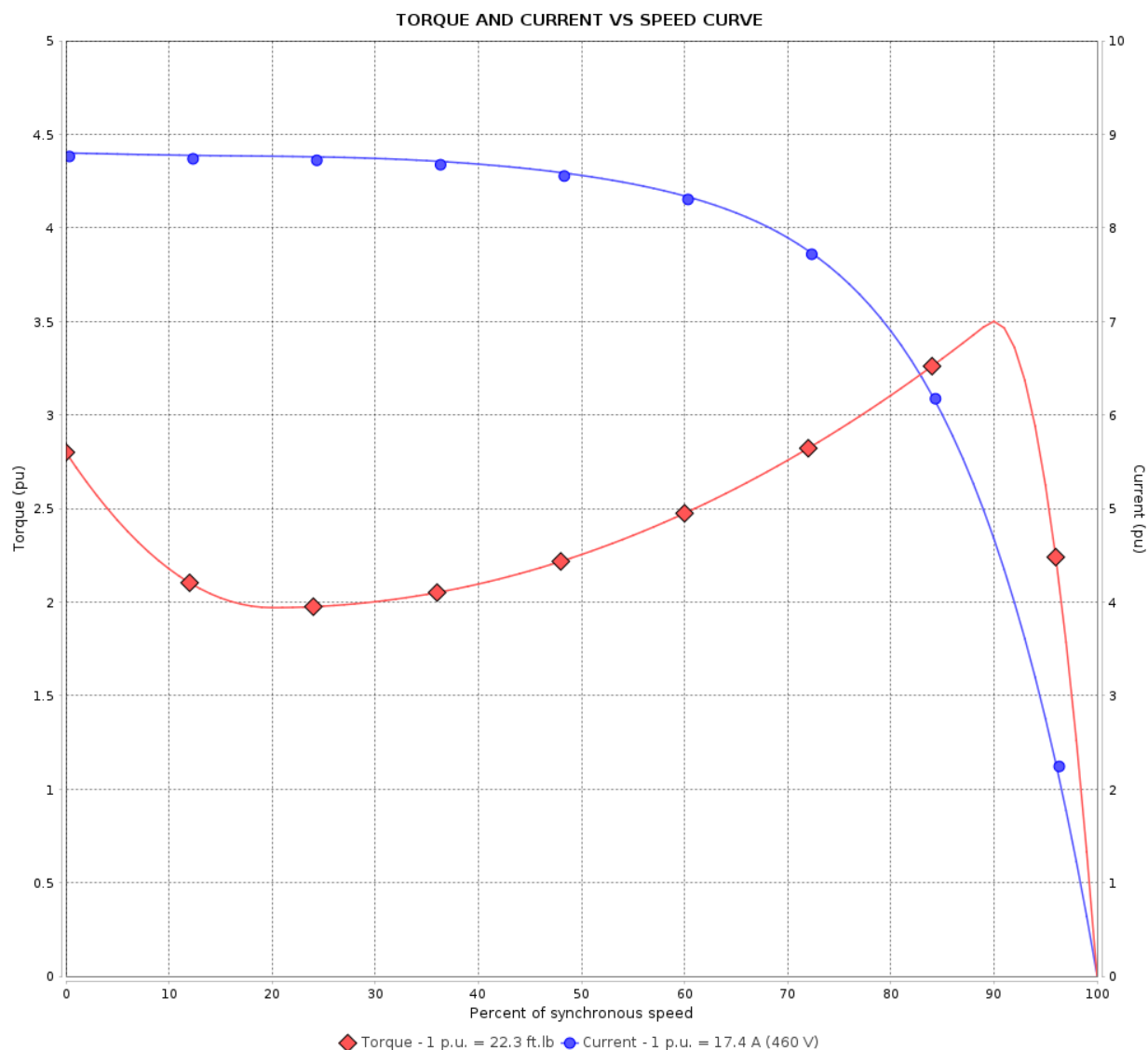


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Rated speed : 3535 rpm

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

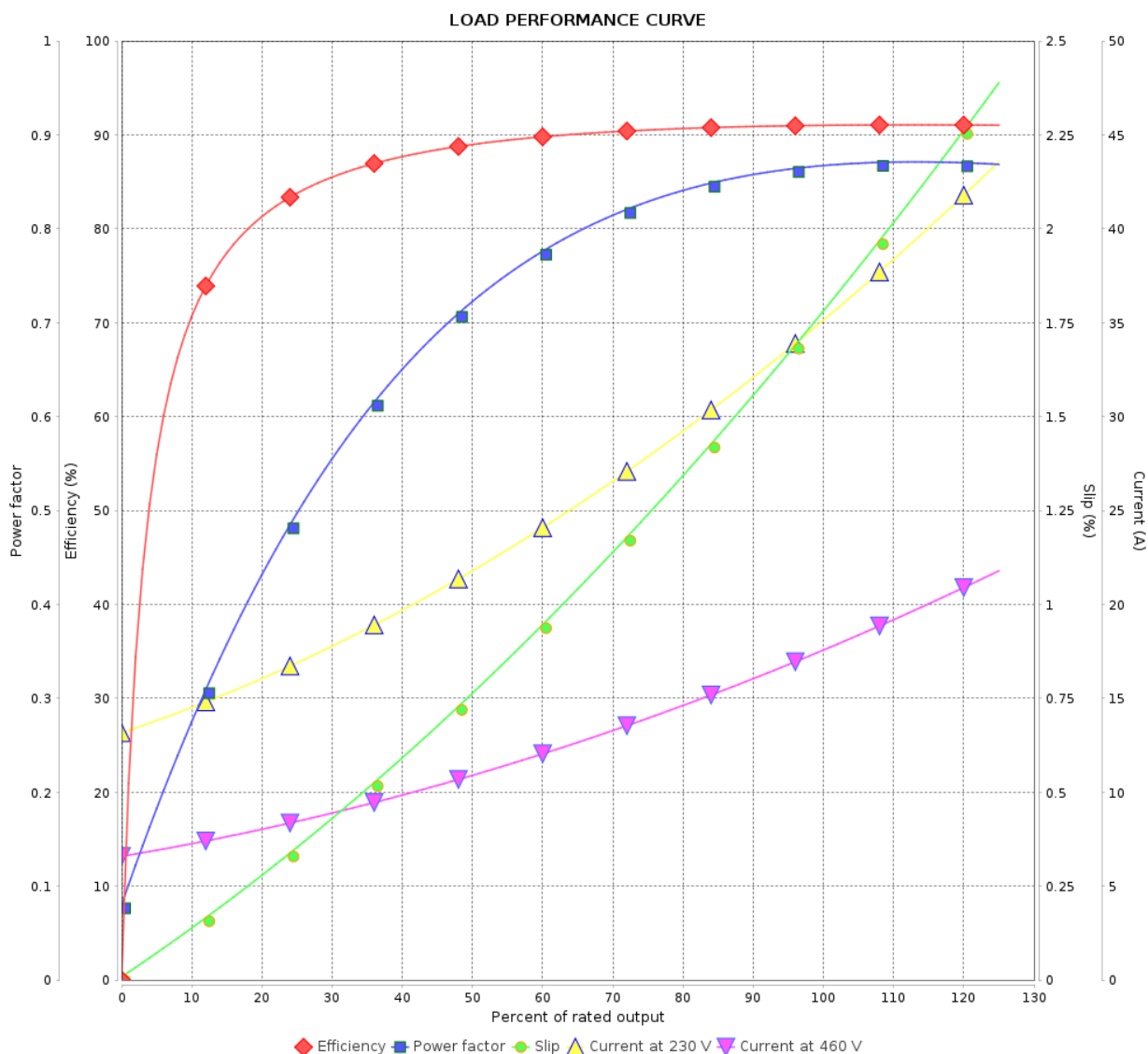


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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

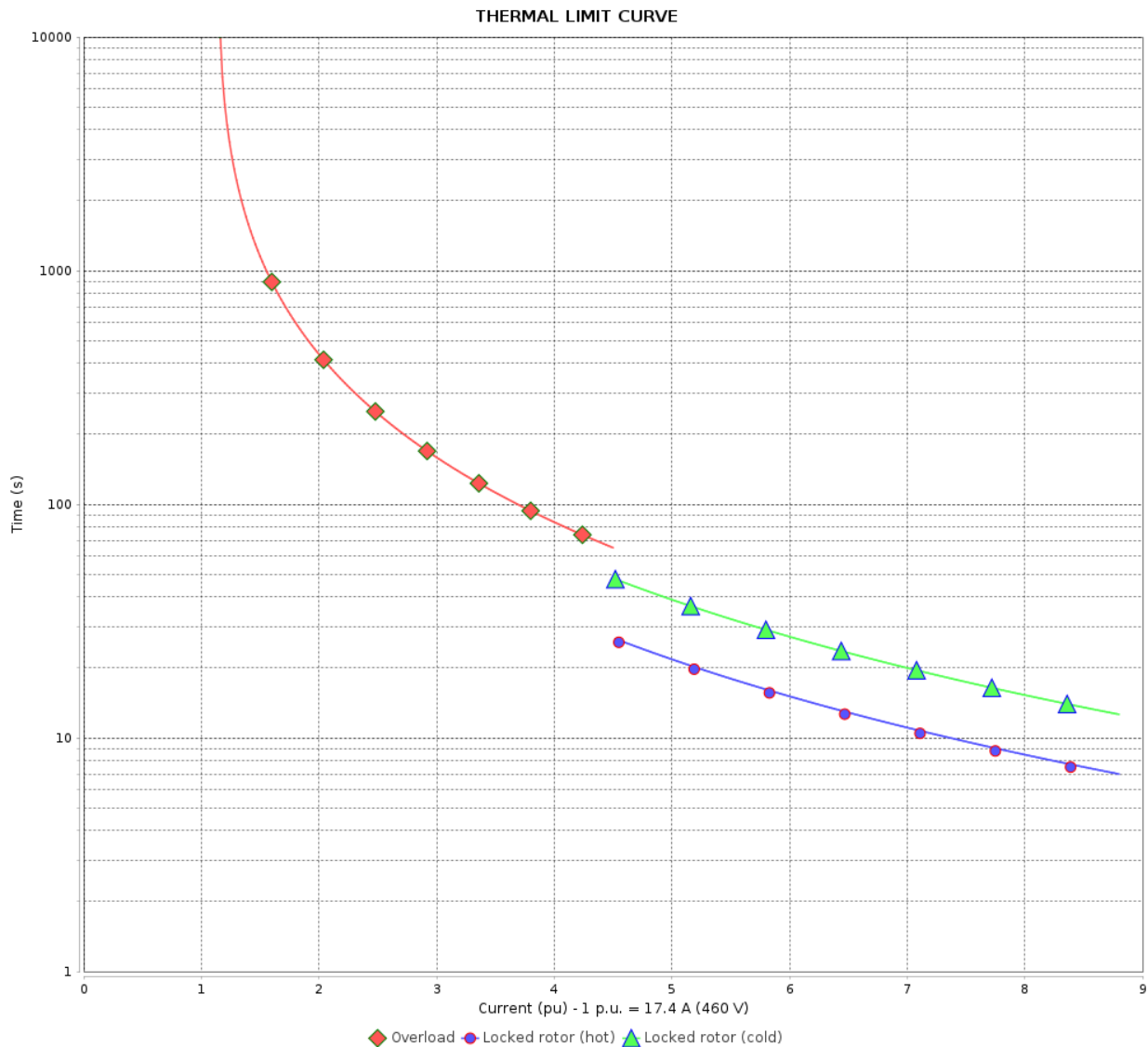
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

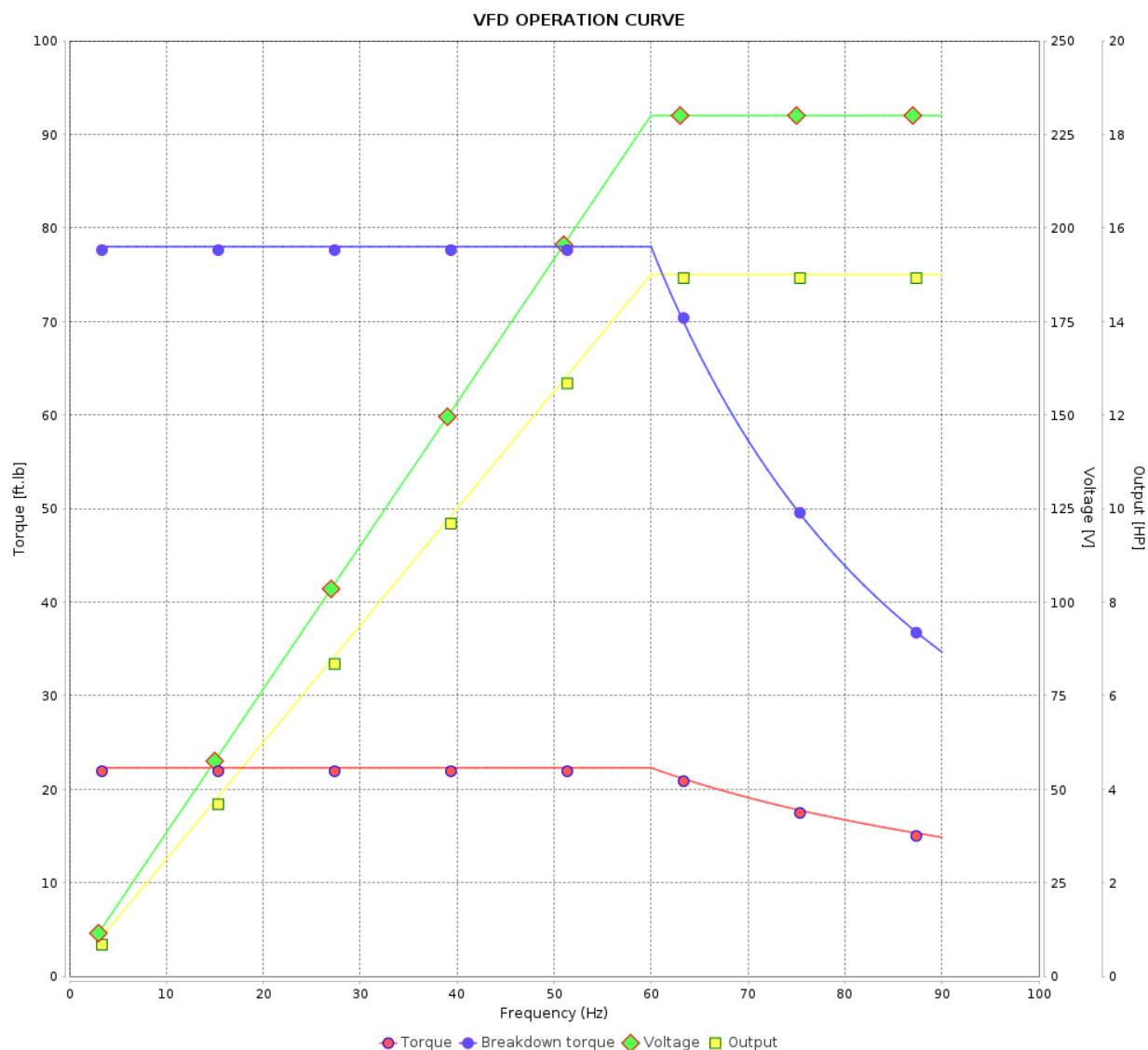


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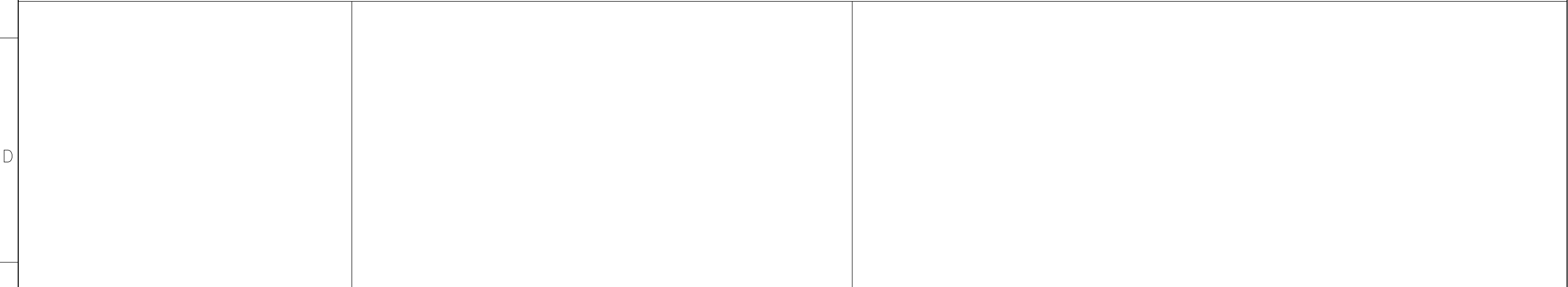
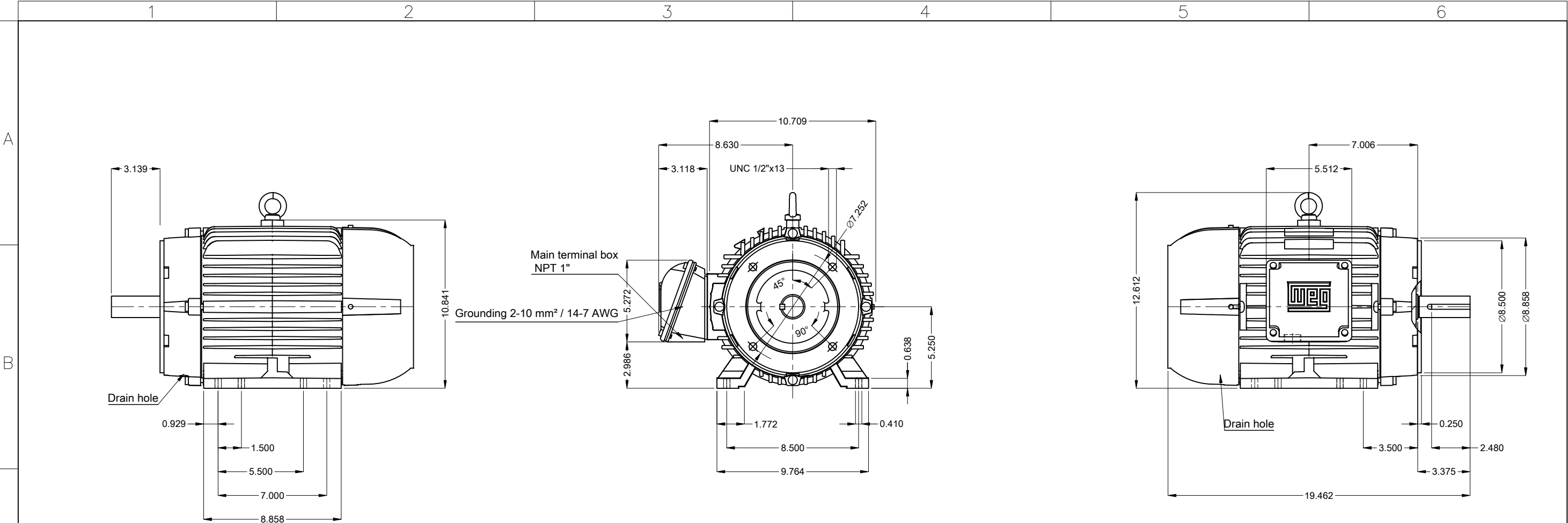


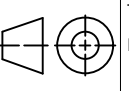
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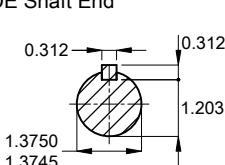
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E				15 HP 02 Poles 60 Hz										A
				Scale 2 : 13										
				HYBRISUSER										00
	ECM	LOC	SUMMARY OF MODIFICATIONS							EXECUTED	CHECKED	RELEASED	DATE	VER
	EXECUTED	HYBRISUSER	 THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 213/5TC IP55 TEFC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

	DE Shaft End		
			

Color RAL 5009
Painting plan 207A
Mounting B34D

Color RAL 5009
Painting plan 207A
Mounting B34D

