

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11165905
Catalog # : HT040508NPW22

Frame	: 364/5T	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 40 HP (30 kW)	Temperature rise	: 80 K
Frequency	: 60 Hz	Duty cycle	: Cont.(S1)
Rated voltage	: 575 V	Ambient temperature	: -20°C to +40°C
Poles	: 8	Altitude	: 1000 m.a.s.l.
Rated current	: 40.7 A	Protection degree	: IP55
	: 5.9x(Code G)	Cooling method	: IC411 - TEFC
Rated speed	: 882 rpm	Mounting	: F-1
Rated torque	: 238 ft.lb	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 60.0 dB(A)
Service factor	: 1.25	Starting method	: Direct On Line
Moment of inertia (J)	: 29.0 sq.ft.lb	Approx. weight ³	: 875 lb
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	92.4	93.0	92.4	Max. traction	: 1298 lb
Power Factor	0.65	0.75	0.80	Max. compression	: 2125 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)
8.1	7.1	6.5	3.6	2.6	1.6	1.2

	Drive end	Non drive end
Bearing type	: 6314 C3	6314 C3
Sealing	: WSeal	WSeal
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 27 g	27 g
Lubricant type	Mobil Polyrex EM	

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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Performed by				
Checked by				
Date	29/06/2026			

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Revision

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

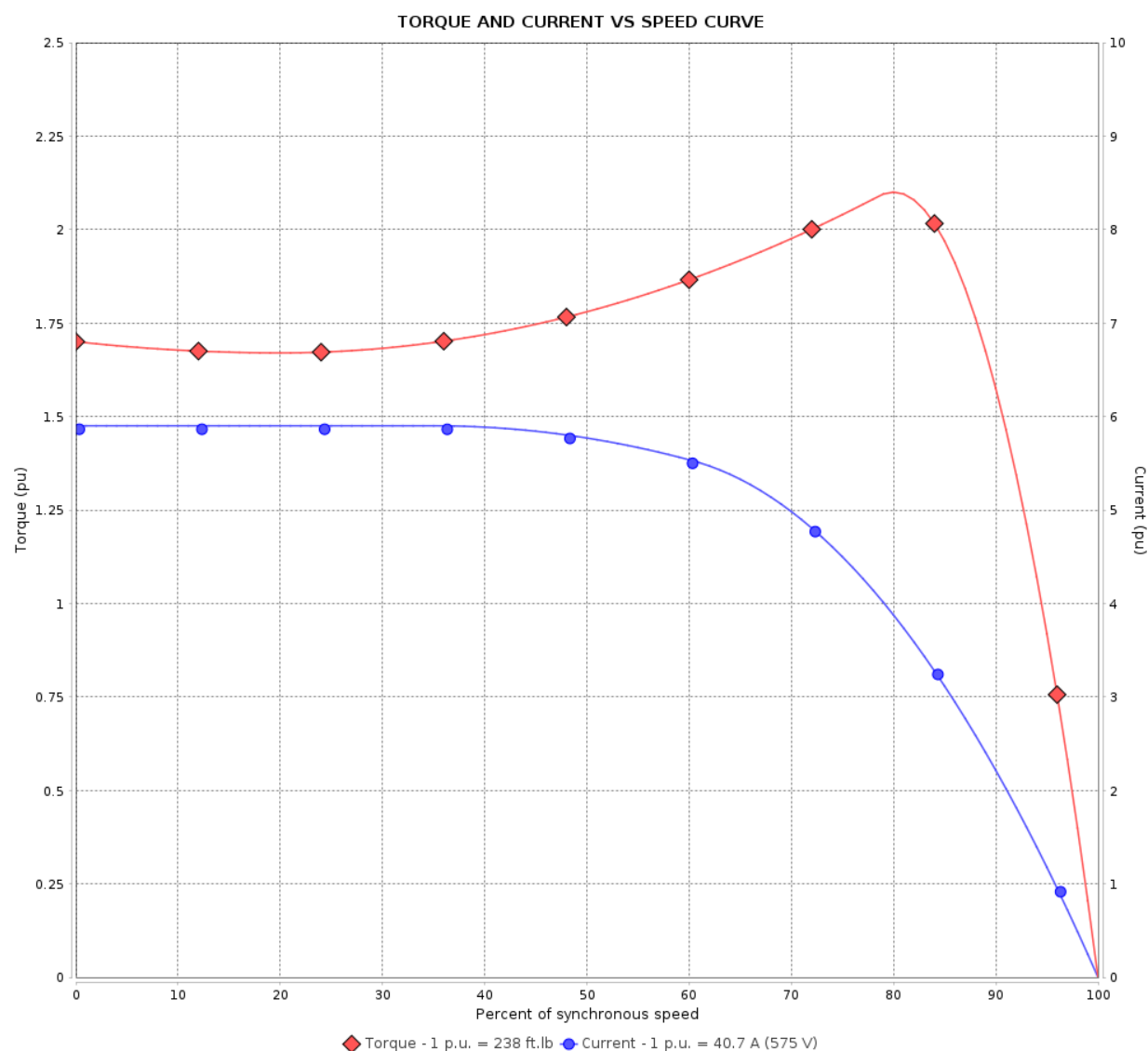


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Three-Phase

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Performance : 575 V 60 Hz 8P

Rated current : 40.7 A
LRC : 5.9
Rated torque : 238 ft.lb
Locked rotor torque : 170 %
Breakdown torque : 210 %
Rated speed : 882 rpm

Moment of inertia (J) : 29.0 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Duty cycle : Cont.(S1)

Locked rotor time : 46s (cold) 26s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

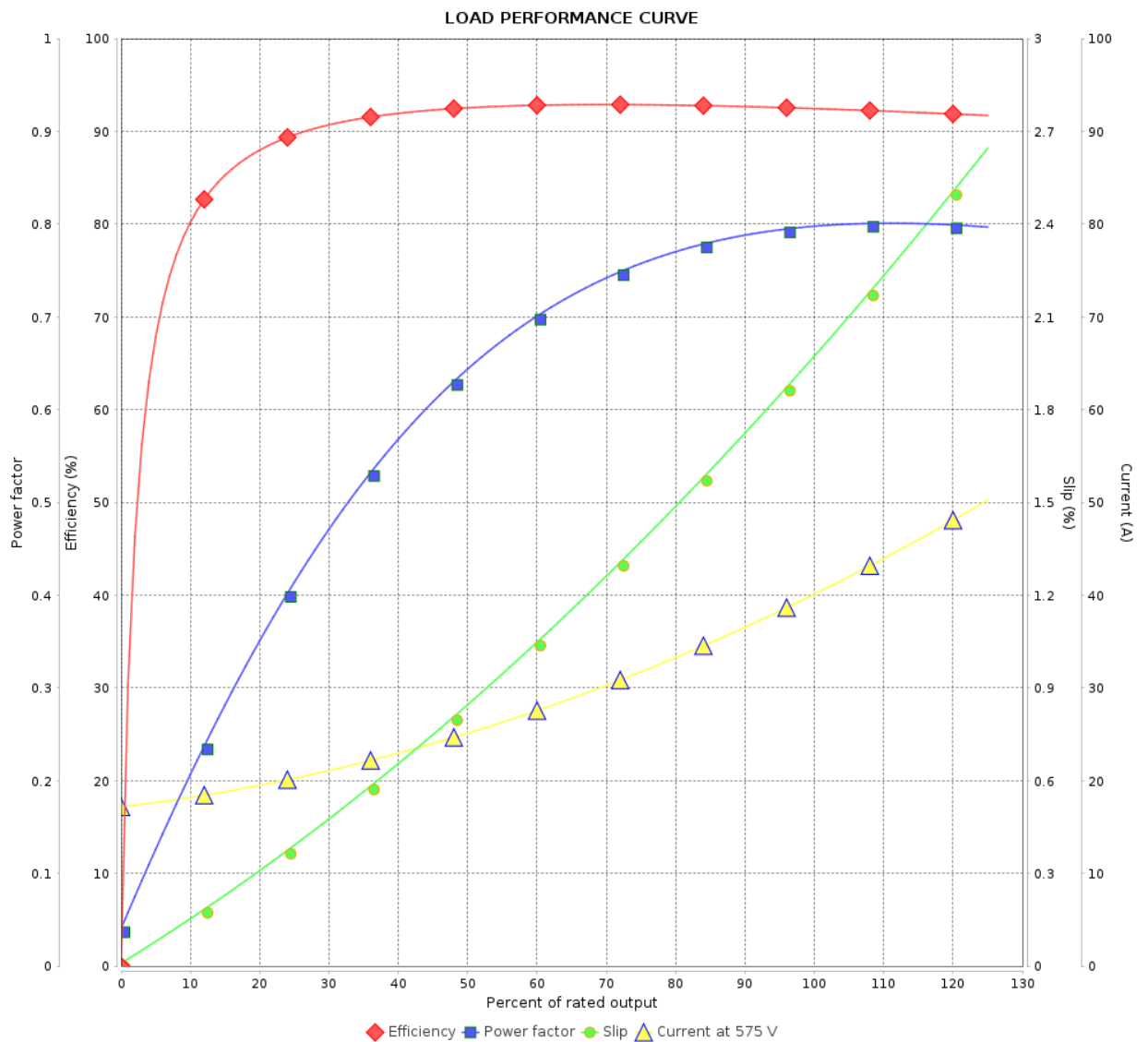


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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

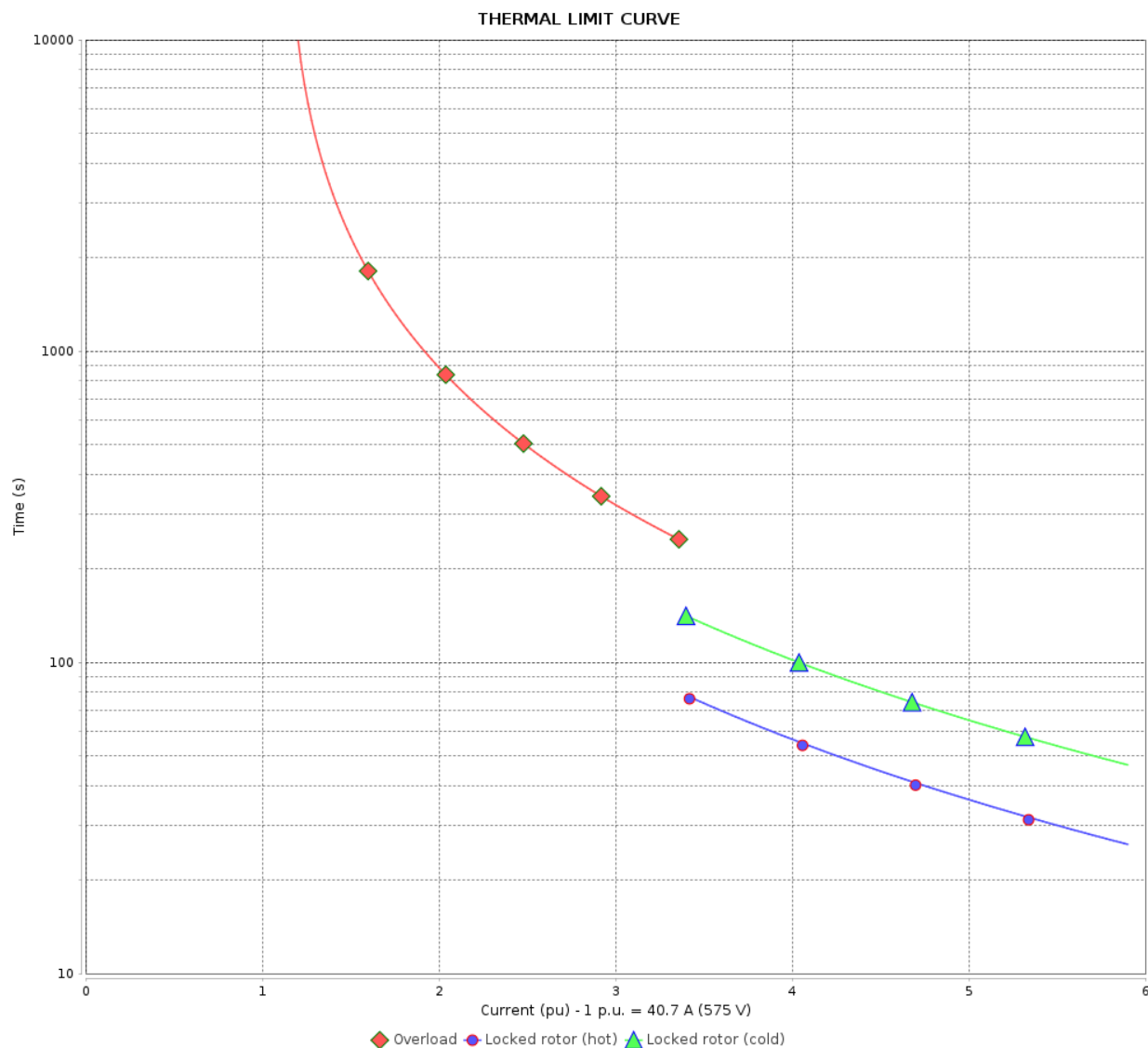


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Heating constant
Cooling constant

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

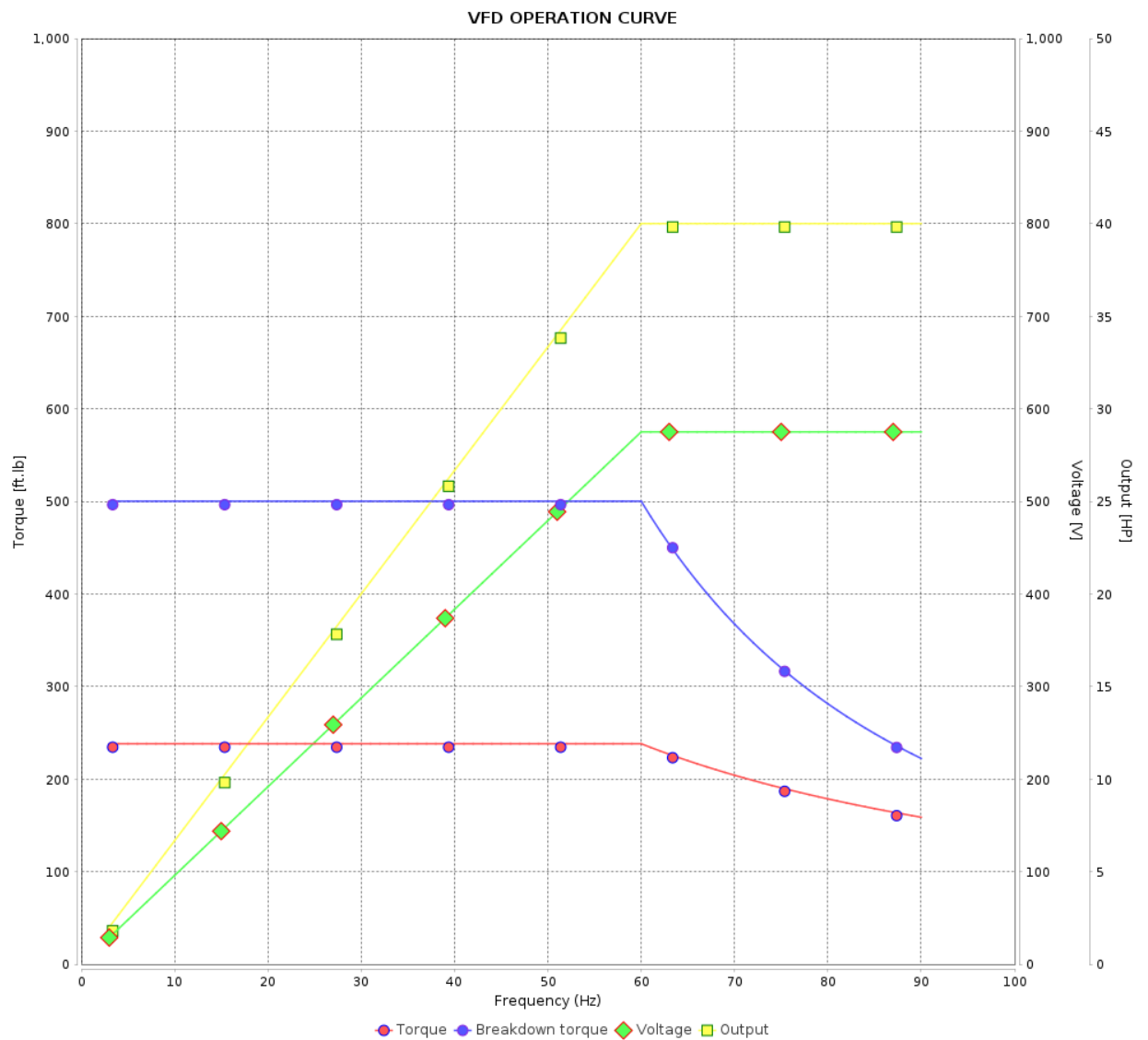


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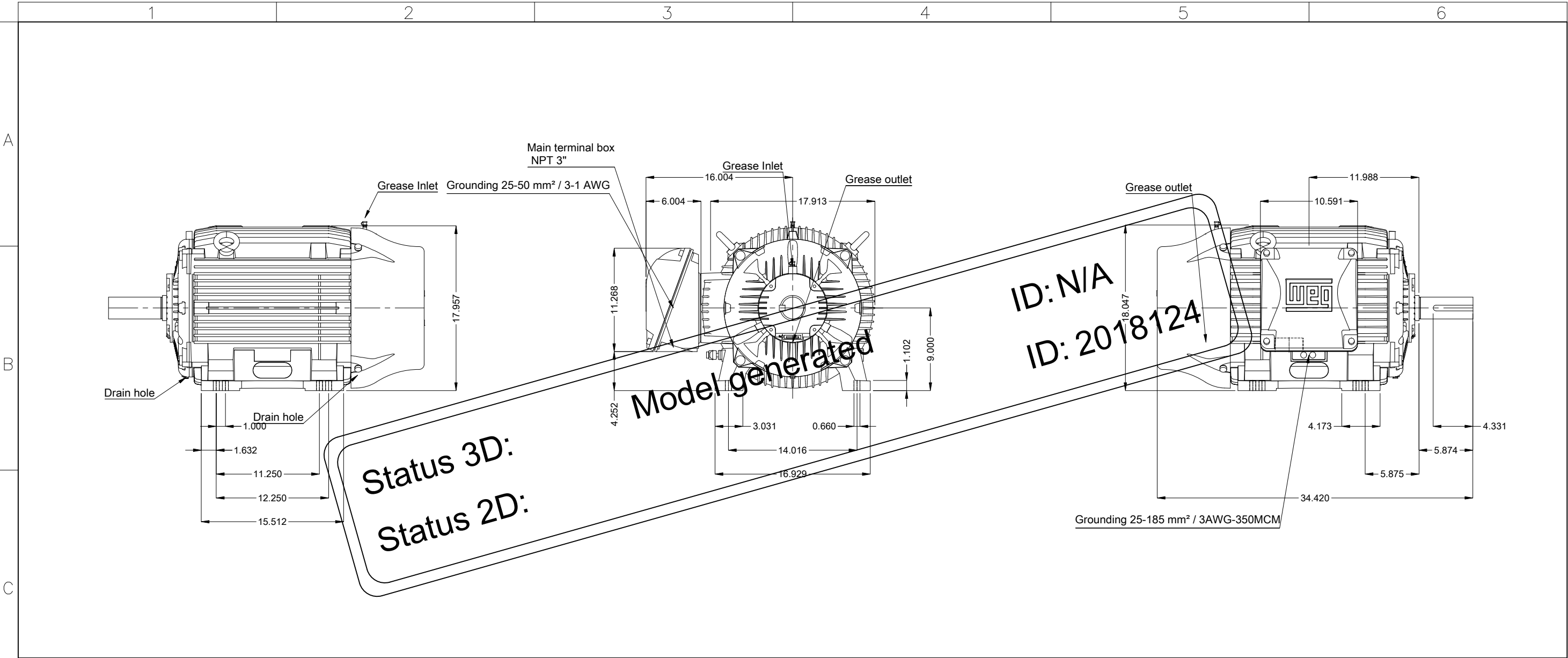
Product line : W22 NEMA Premium Efficiency
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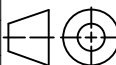
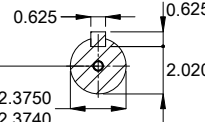
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D E															A
							Scale						1 : 11		
									HYBRISUSER					00	
	ECM	LOC	SUMMARY OF MODIFICATIONS						EXECUTED	CHECKED	RELEASED	DATE	VER		
	EXECUTED	HYBRISUSER	 THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 364/5T IP55 TEFC						PREVIEW						
	CHECKED														
	RELEASED														
	REL. DATE														
									WDD		00		SHEET		1 / 1
Without vertical jackscrews		DE Shaft End  DUNC 3/4"-10 WEG WPR-7339													
Color RAL 5009															
Painting plan 203A															
Mounting B3R(D)															