

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12447064
Catalog # : HT020508NPW22

Frame	: 324/6T	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 20 HP (15 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	: 23.9 A	Protection degree	: IP55
	: 5.0x(Code G)	Cooling method	: IC411 - TEFC
Rated speed	: 881 rpm	Mounting	: F-1
Rated torque	: 119 ft.lb	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 56.0 dB(A)
Service factor	: 1.25	Starting method	: Direct On Line
Moment of inertia (J)	: 9.37 sq.ft.lb	Approx. weight ³	: 452 lb
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	89.5	90.2	90.2	Max. traction	: 764 lb
Power Factor	0.50	0.63	0.70	Max. compression	: 1249 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)
10.5	8.9	8.6	5.8	4.2	3.2	2.4

	Drive end	Non drive end
Bearing type	: 6312 C3	6212 C3
Sealing	: V'Ring	V'Ring
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 21 g	13 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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

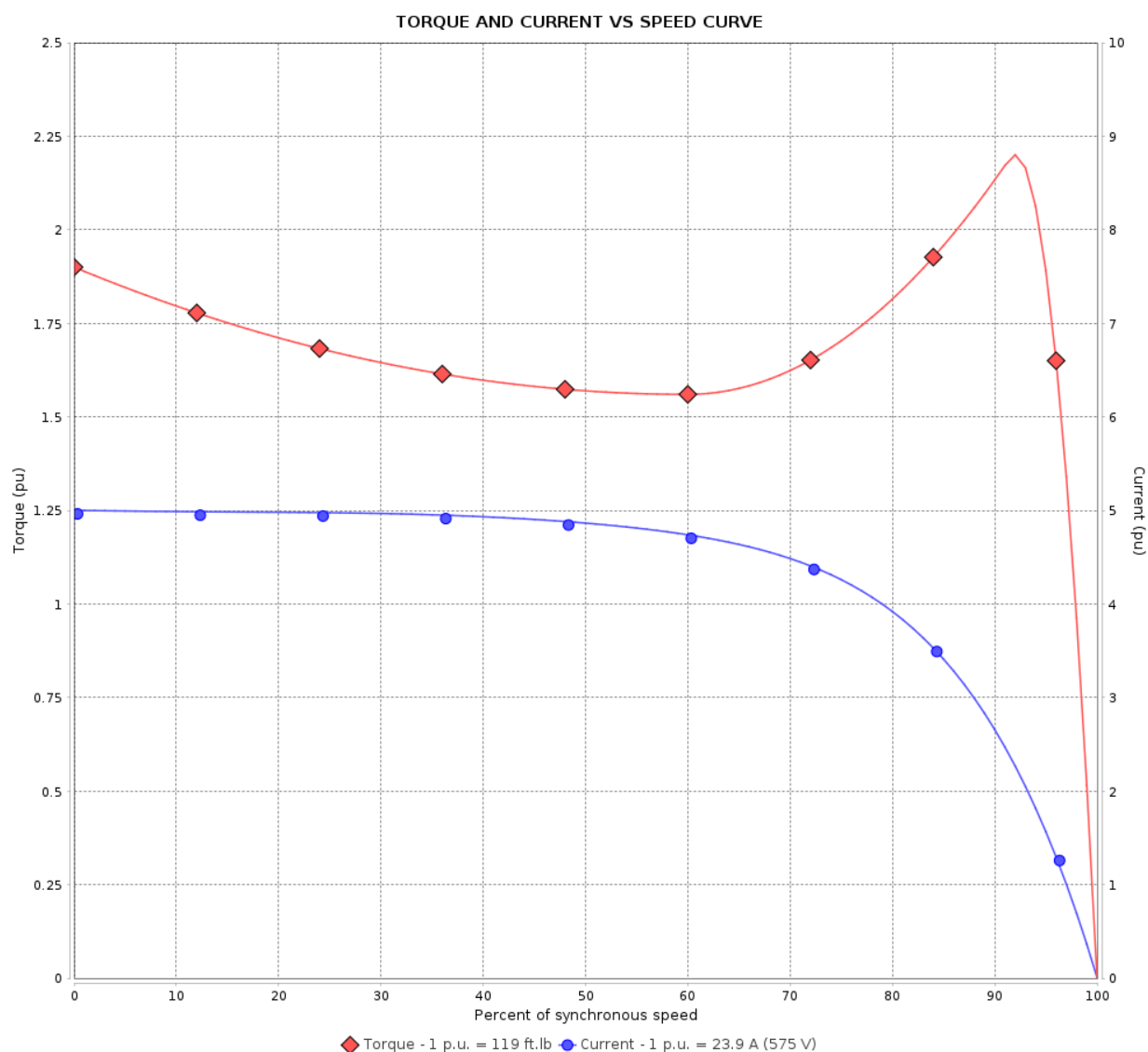


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Performance : 575 V 60 Hz 8P

Rated current : 23.9 A
LRC : 5.0
Rated torque : 119 ft.lb
Locked rotor torque : 190 %
Breakdown torque : 220 %
Rated speed : 881 rpm

Moment of inertia (J) : 9.37 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Duty cycle : Cont.(S1)

Locked rotor time : 36s (cold) 20s (hot)

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LOAD PERFORMANCE CURVE

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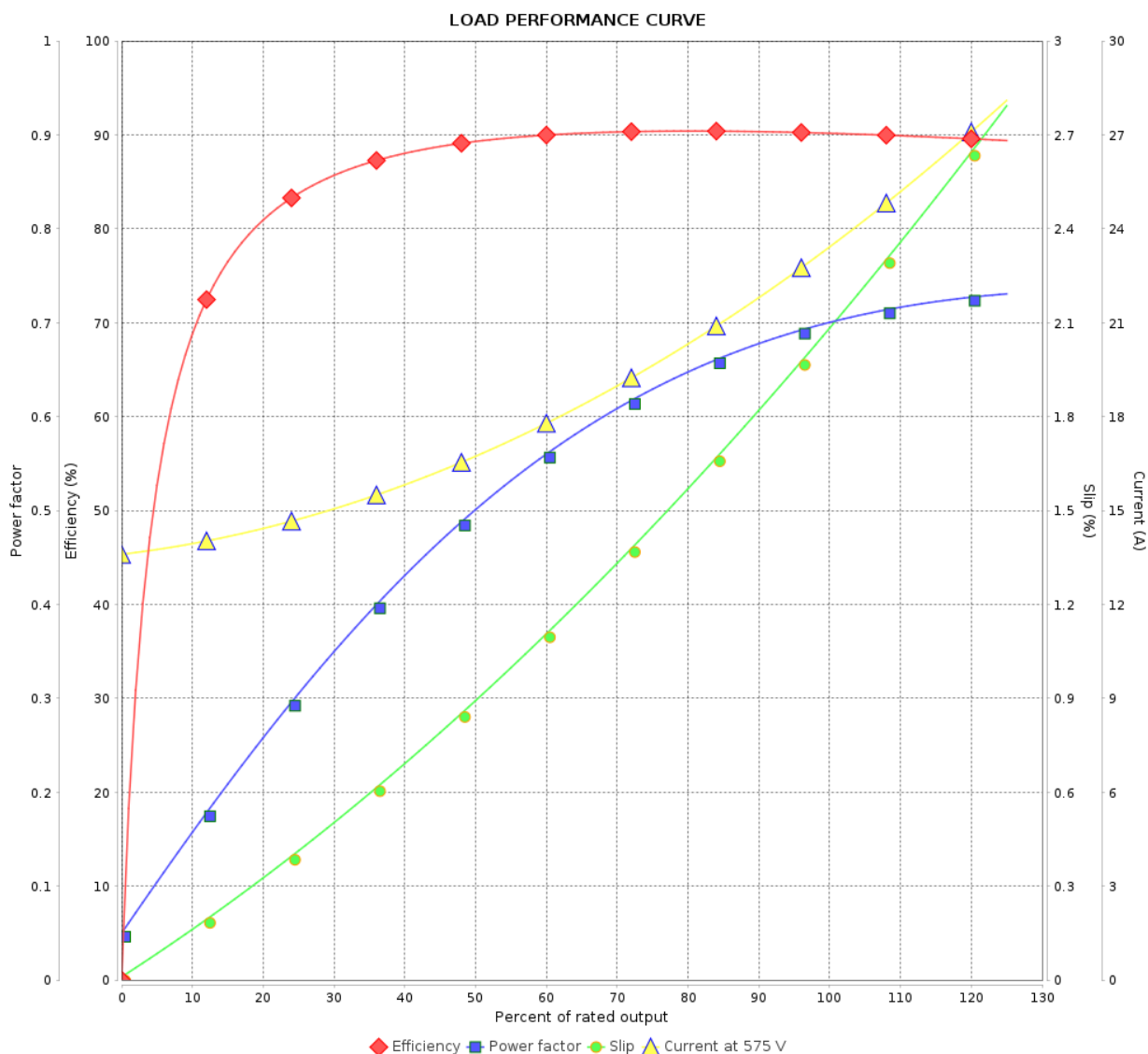


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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

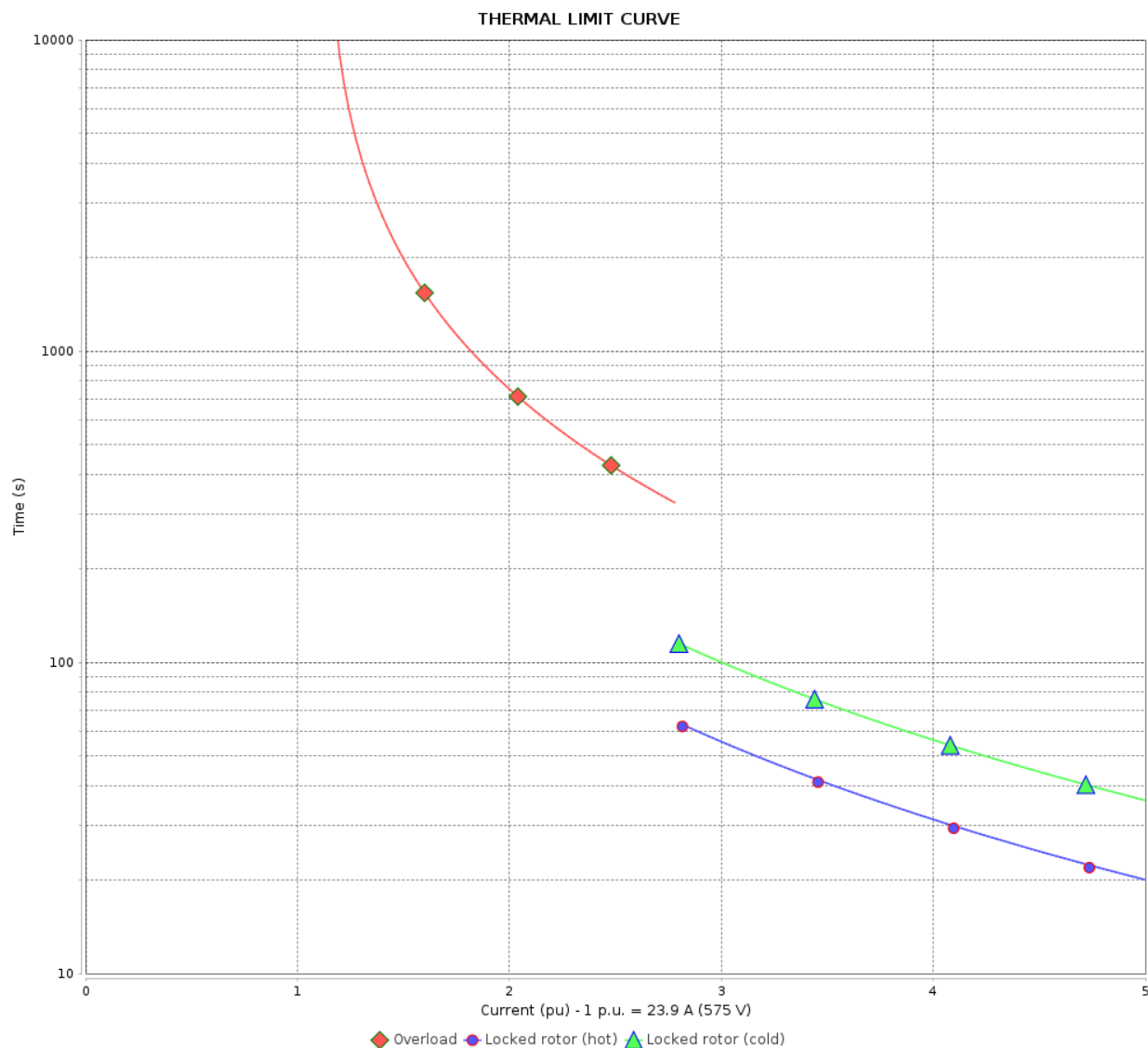


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Heating constant
Cooling constant

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

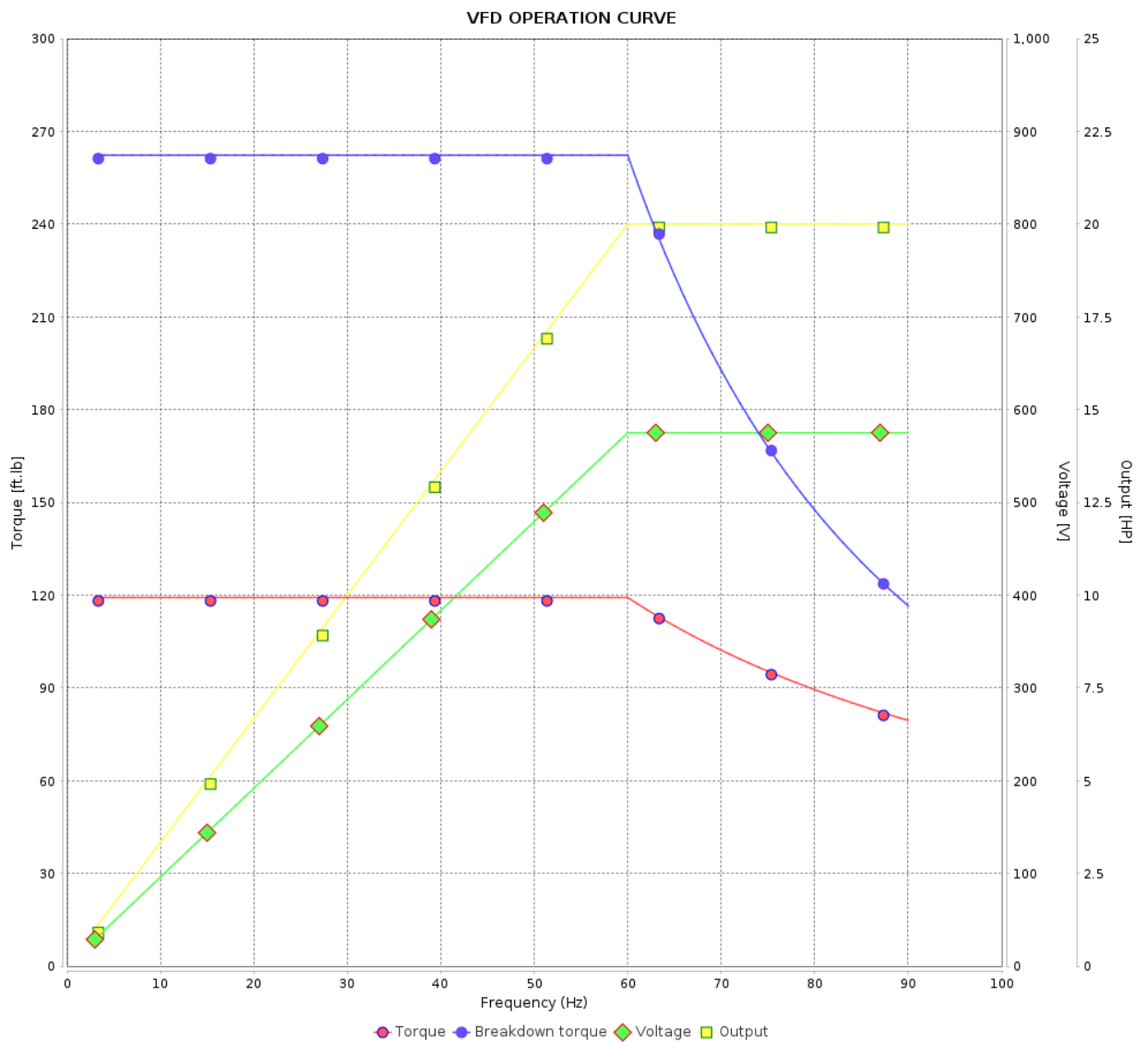


Customer :

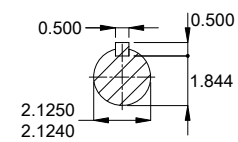
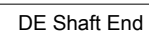
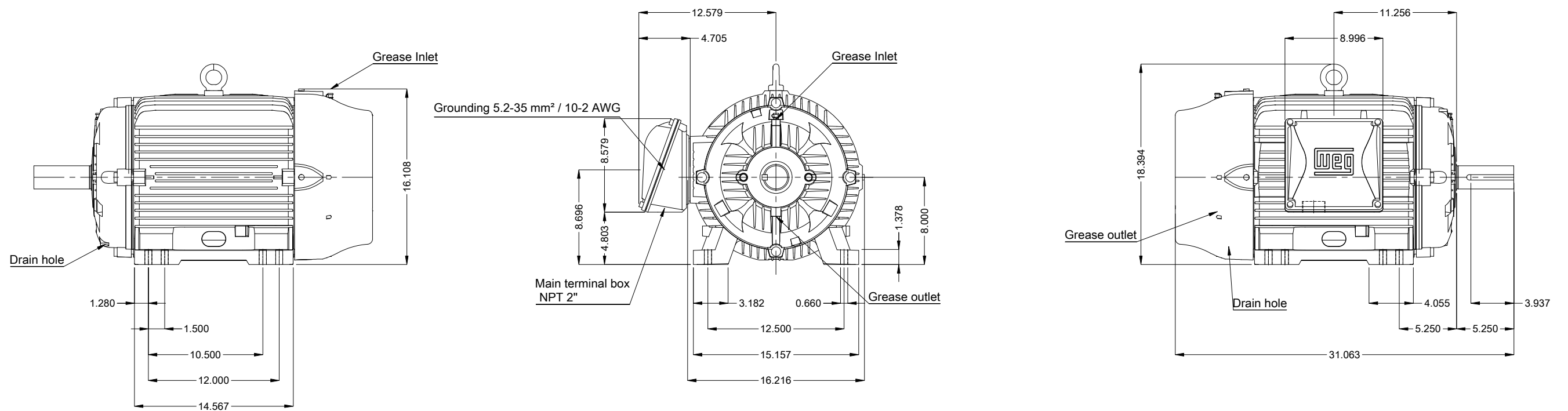
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Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting B3R(D)

20 HP 08 Poles 60 Hz										A
						Scale			1 : 10	
						HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 324/6T IP55 TEFC				PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE										
						SHEET		1 / 1		