DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	14087905
		Catalog # :	CT000508NPW22

Frame	: 182/4TC	Locked rotor time	: 39s (cold) 22s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K
Poles	: 8	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	: 1.85 A	Protection degree	: IP55
L. R. Amperes	: 11.6 A	Cooling method	: IC411 - TEFC
LRC	: 6.3x(Code N)	Mounting	: F-1
No load current	: 1.60 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 880 rpm	Noise level[2]	: 50.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 5.97 ft.lb	Approx. weight[3]	: 94.8 lb
Locked rotor torque	: 300 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.3991 sq.ft.lb		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	72.5	77.0	78.5
Power Factor	0.32	0.42	0.52

Foundation loads

Max. traction	: 90 lb
Max. compression	: 176 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)
26.1	21.3	18.8	21.1	16.5	15.5	12.9

		Drive end	Non drive end
Bearing type	:	6207 ZZ	6206 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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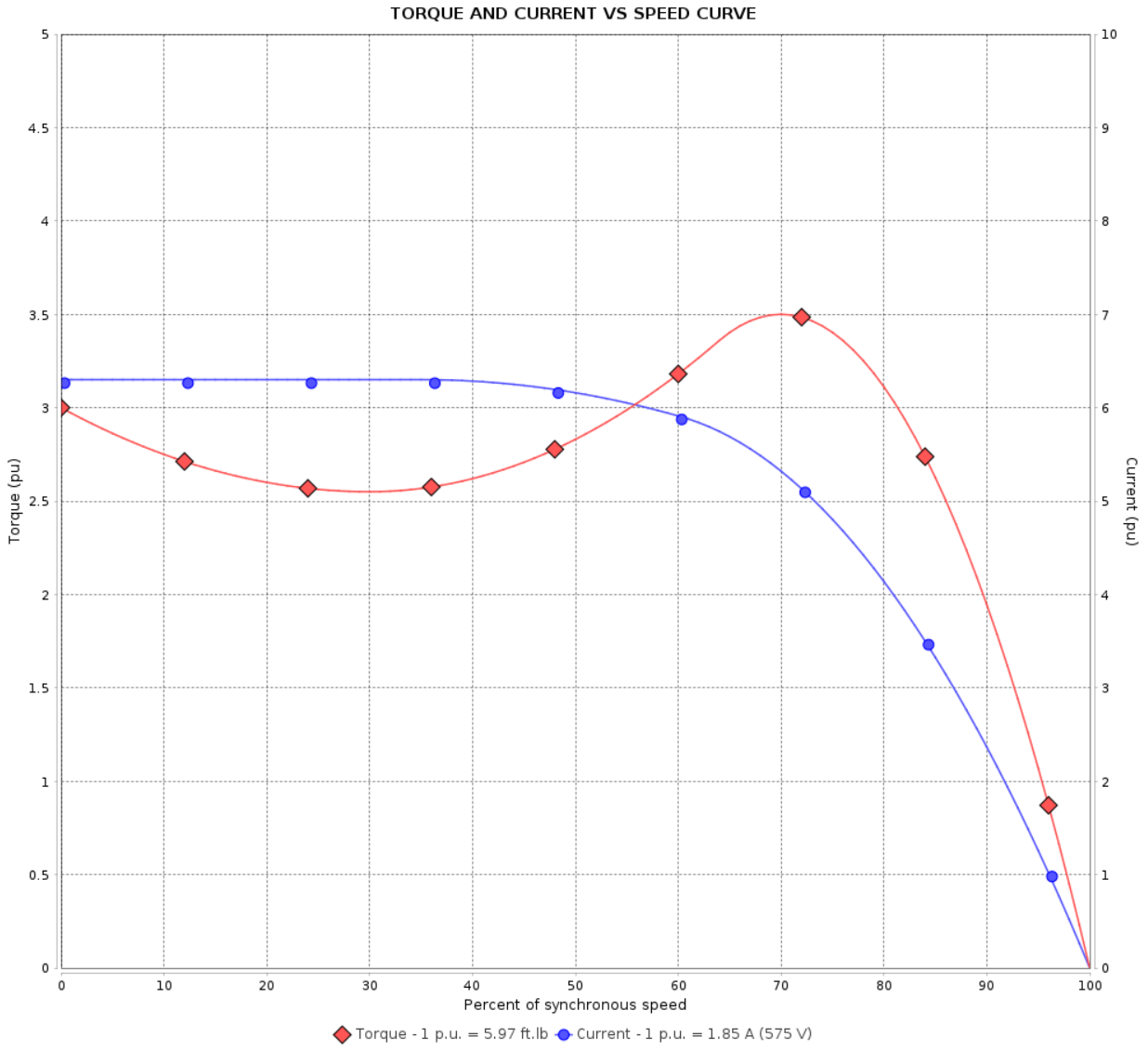
		Catalog # :	CT000508NPW22



Performance	: 575 V 60 Hz 8P		
Rated current	: 1.85 A	Moment of inertia (J)	: 0.3991 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 5.97 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 880 rpm	Design	: B
Locked rotor time	: 39s (cold) 22s (hot)		

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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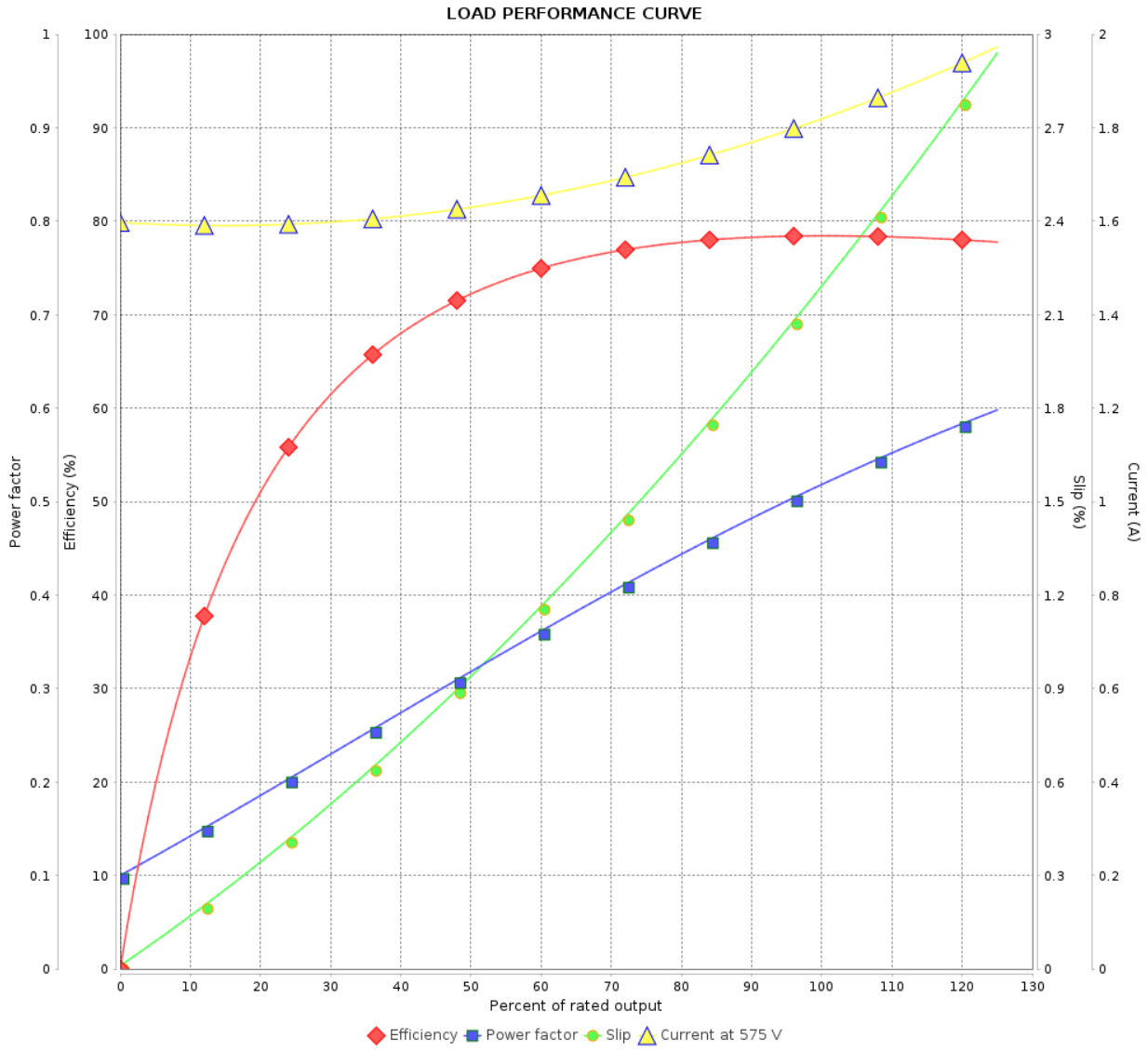
		Catalog # :	CT000508NPW22



Performance	: 575 V 60 Hz 8P

Rated current	: 1.85 A	Moment of inertia (J)	: 0.3991 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 5.97 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 880 rpm	Design	: B

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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	14087905
		Catalog # :	CT000508NPW22

Performance : 575 V 60 Hz 8P

Rated current	: 1.85 A	Moment of inertia (J)	: 0.3991 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 5.97 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 880 rpm	Design	: B

Heating constant

Cooling constant

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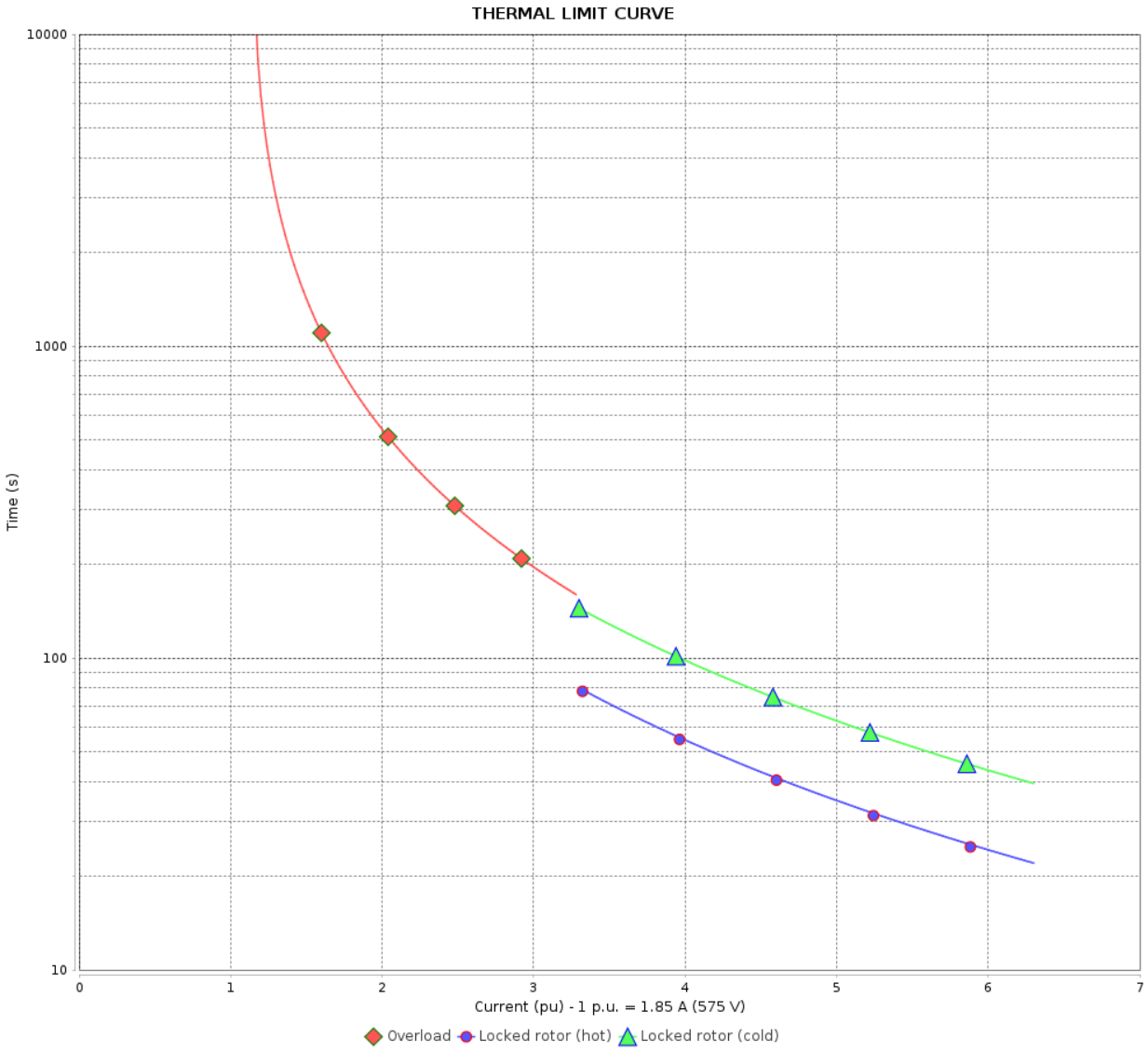
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

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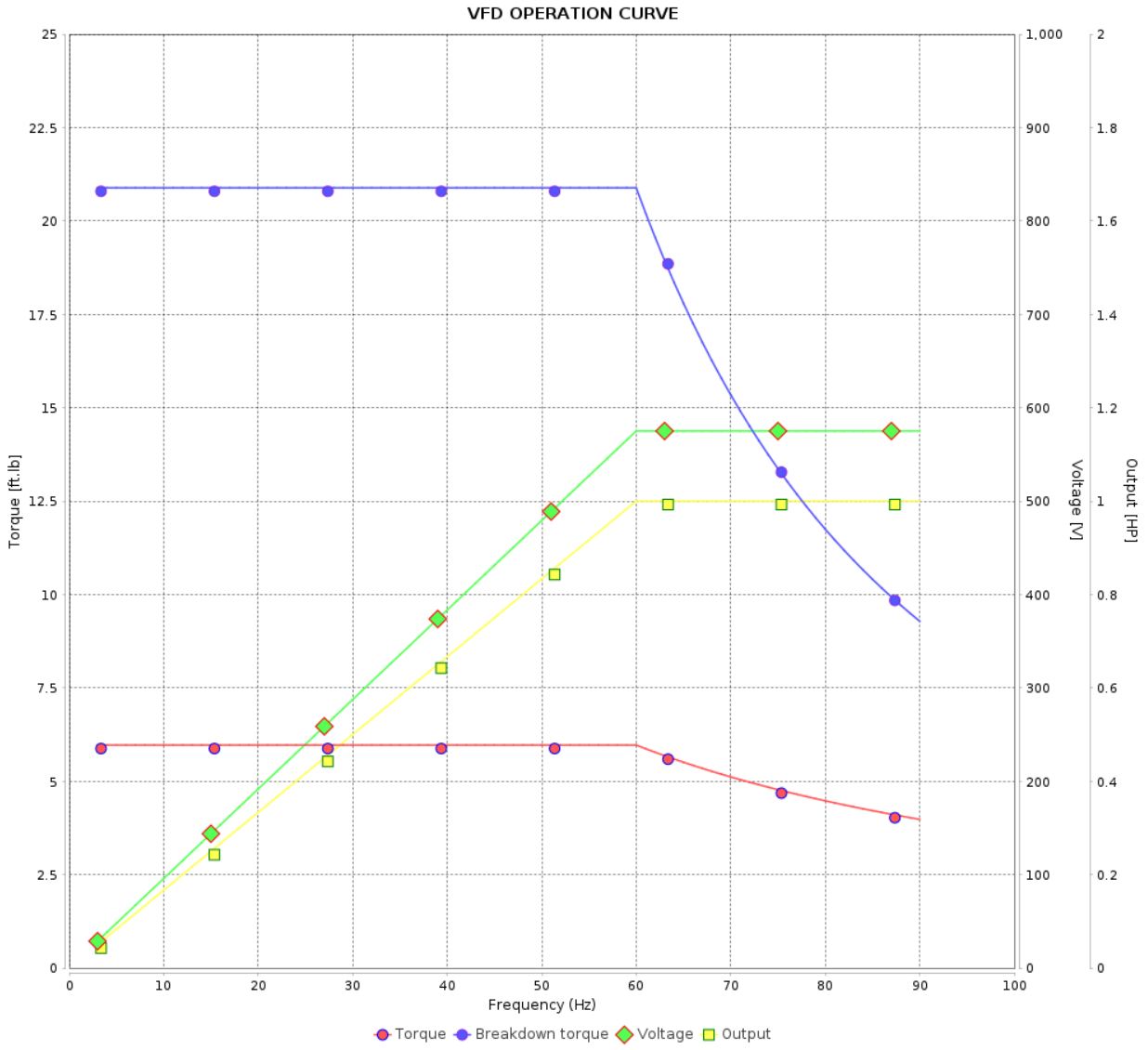
		Catalog # :	CT000508NPW22



Performance	: 575 V 60 Hz 8P

Rated current	: 1.85 A	Moment of inertia (J)	: 0.3991 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 5.97 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 880 rpm	Design	: B

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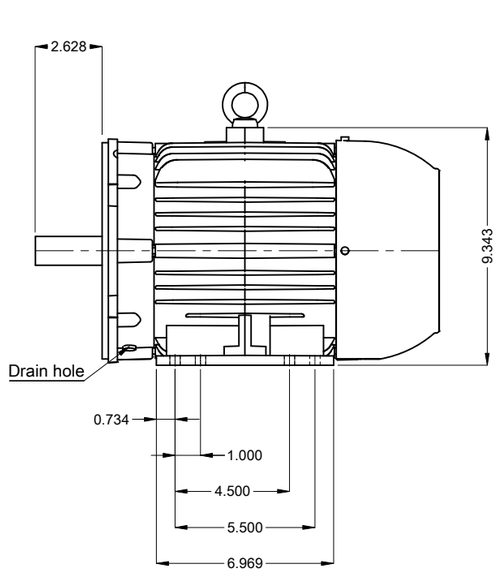
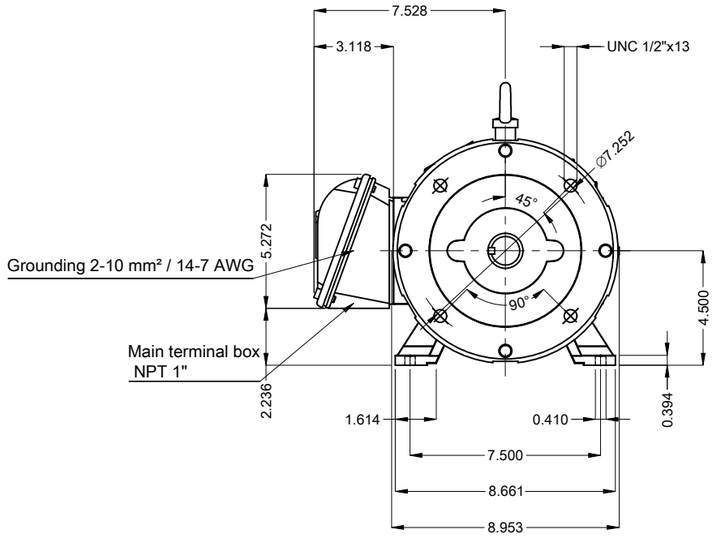
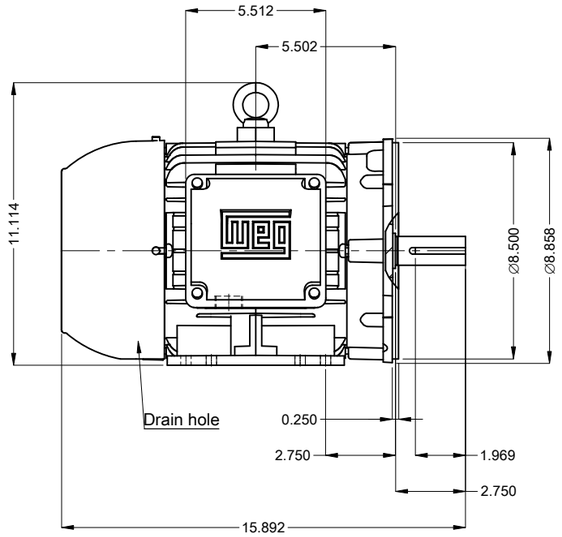
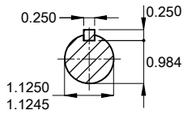






DE Shaft End



Color RAL 5009
Painting plan 207A
Mounting NEMA F-1
Mounting B34D

1 HP 08 Poles 60 Hz

A

Scale 1 : 6

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 NEMA PREM. EFF.
FRAME 182/4TC IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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