DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W40 JP Pump NEMA Premium Efficiency Three-Phase	Product code :	14270424
		Catalog # :	07512OT3E405JP-W40

Frame	: 404/5JP	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 75 HP (55 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 172/85.9 A	Protection degree	: IP23
L. R. Amperes	: 1151/576 A	Cooling method	: IC01 - ODP
LRC	: 6.7x(Code G)	Mounting	: F-1
No load current	: 60.0/30.0 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1185 rpm	Noise level[2]	: 68.0 dB(A)
Slip	: 1.25 %	Starting method	: Direct On Line
Rated torque	: 332 ft.lb	Approx. weight[3]	: 1008 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 31.6 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%
Efficiency (%)	94.0	94.1	94.5	94.5
Power Factor	0.47	0.72	0.81	0.85

Foundation loads	
Max. traction	: 2374 lb
Max. compression	: 3382 lb

		Drive end	Non drive end
Bearing type	:	6314 C3	6212 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	27 g	13 g
Lubricant type	:	Mobil Polyrex EM	

Notes
USABLE @208V 190A SF 1.15 SFA 218A

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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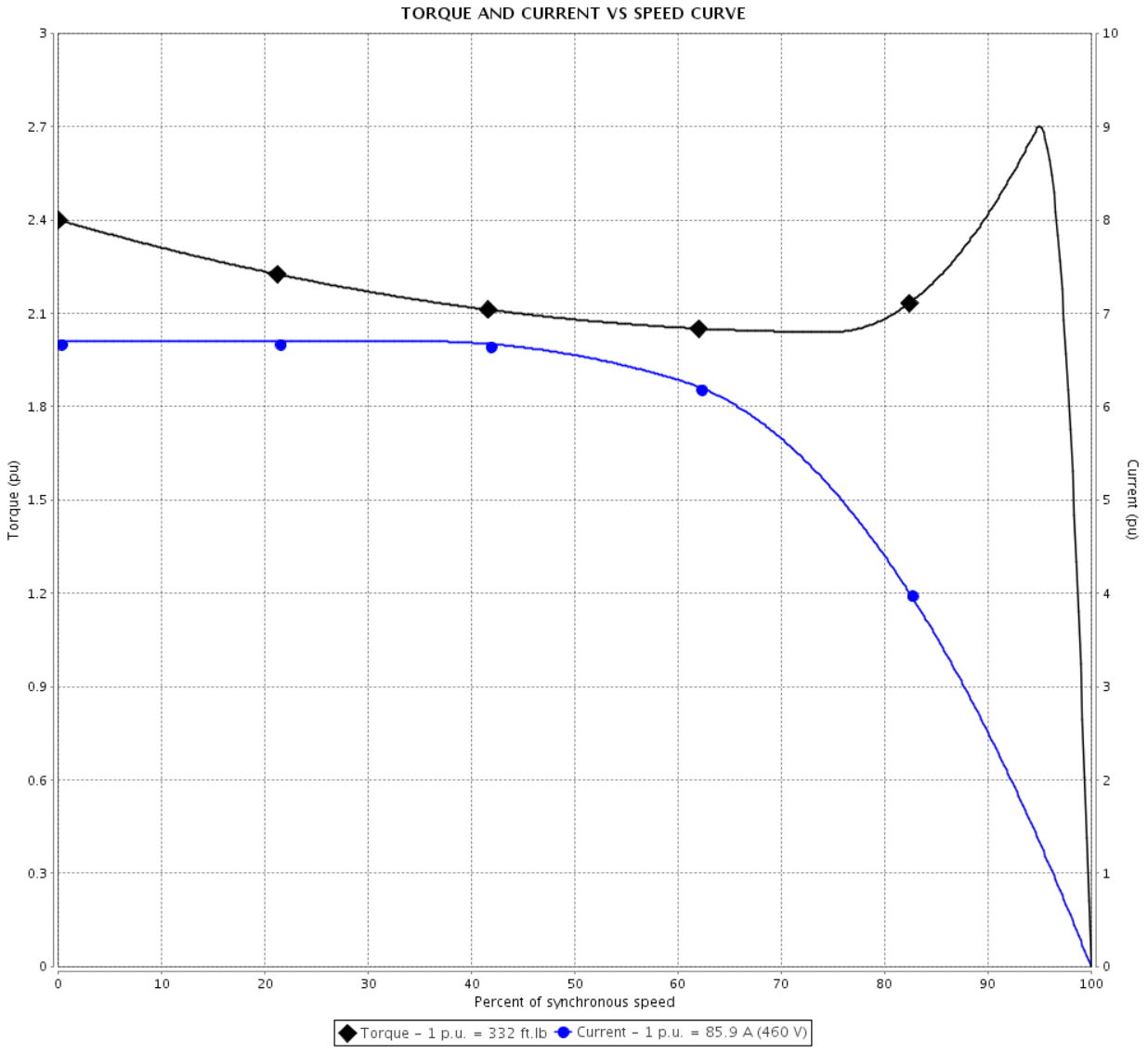

Performance	: 230/460 V 60 Hz 6P

Rated current	: 172/85.9 A	Moment of inertia (J)	: 31.6 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 332 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1185 rpm	Design	: B

Locked rotor time	: 19s (cold) 11s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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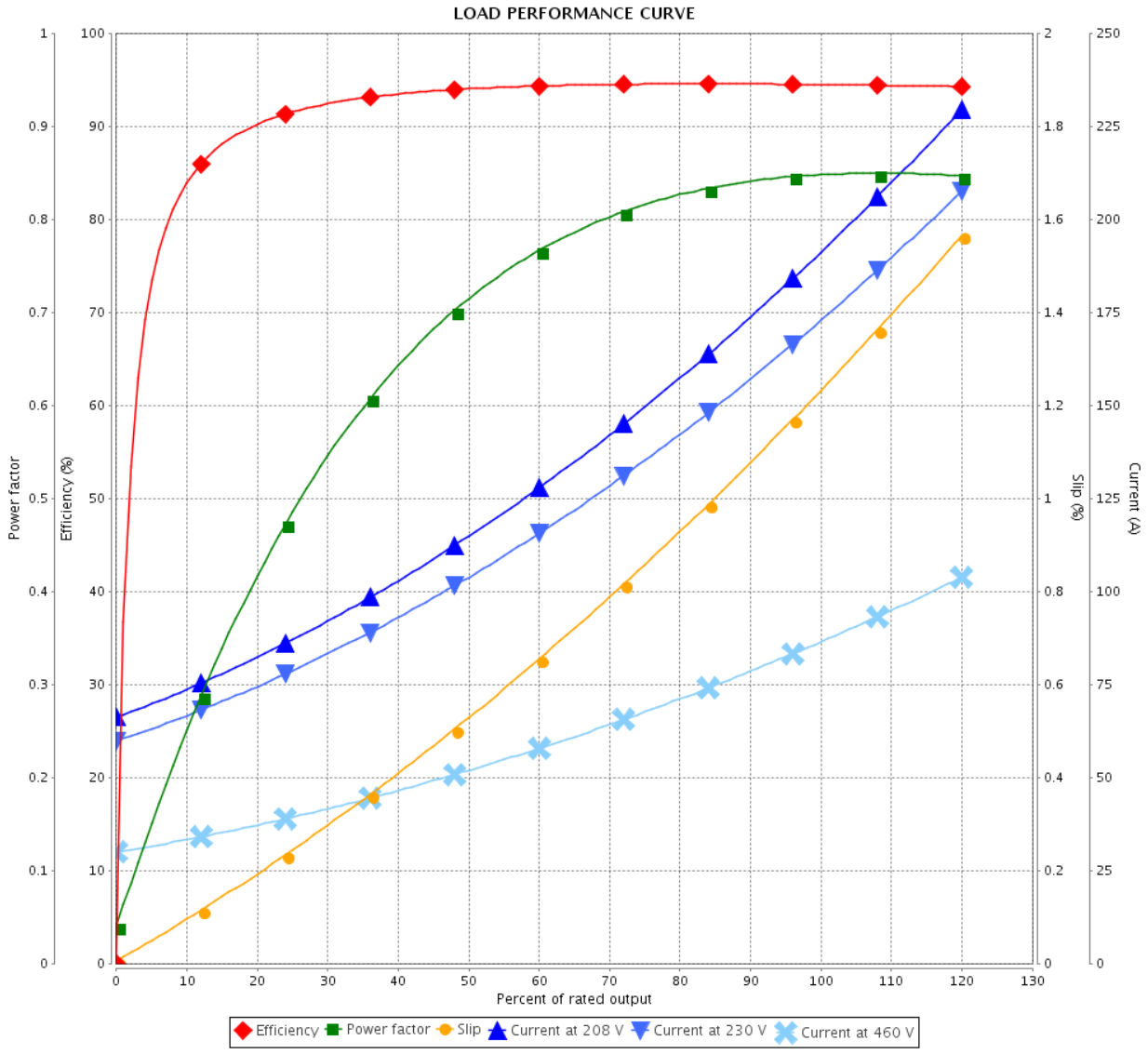
		Catalog # :	07512OT3E405JP-W40



Performance	: 230/460 V 60 Hz 6P		
Rated current	: 172/85.9 A	Moment of inertia (J)	: 31.6 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 332 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1185 rpm	Design	: B

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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
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		Catalog # :	07512OT3E405JP-W40

Performance	: 230/460 V 60 Hz 6P		
Rated current	: 172/85.9 A	Moment of inertia (J)	: 31.6 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 332 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1185 rpm	Design	: B
Heating constant			
Cooling constant			

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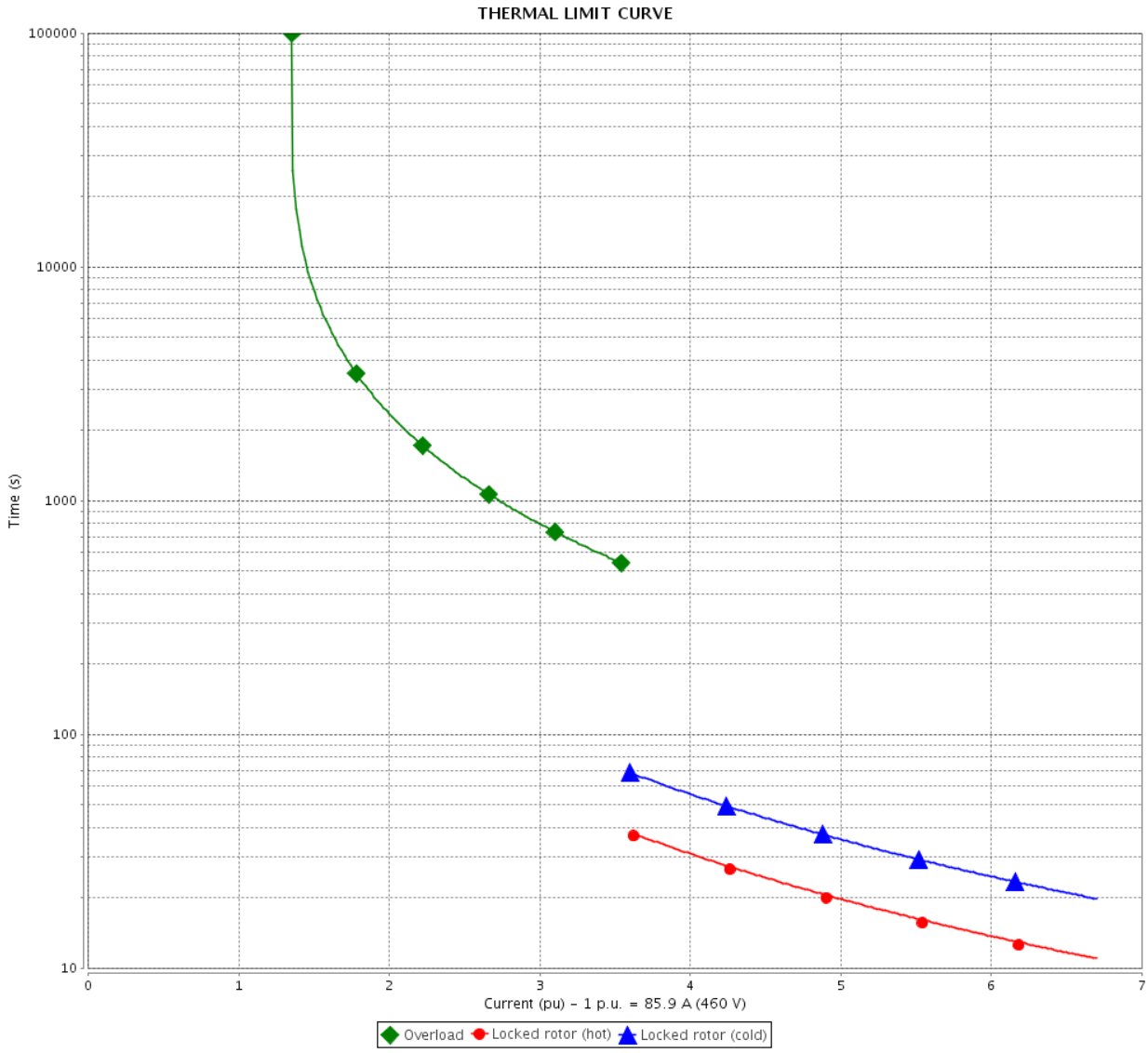
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

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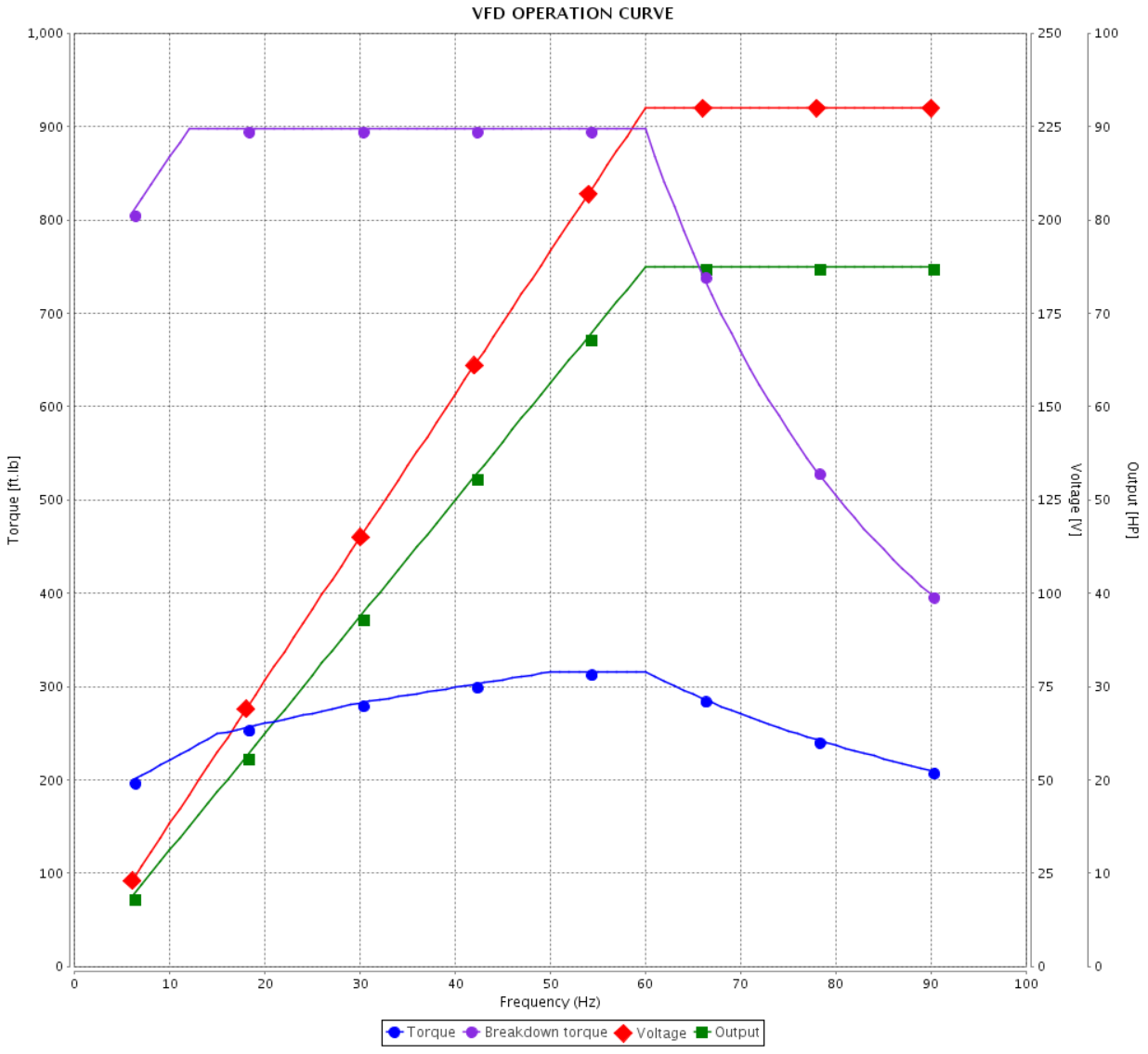

Performance	: 230/460 V 60 Hz 6P		
Rated current	: 172/85.9 A	Moment of inertia (J)	: 31.6 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 332 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1185 rpm	Design	: B

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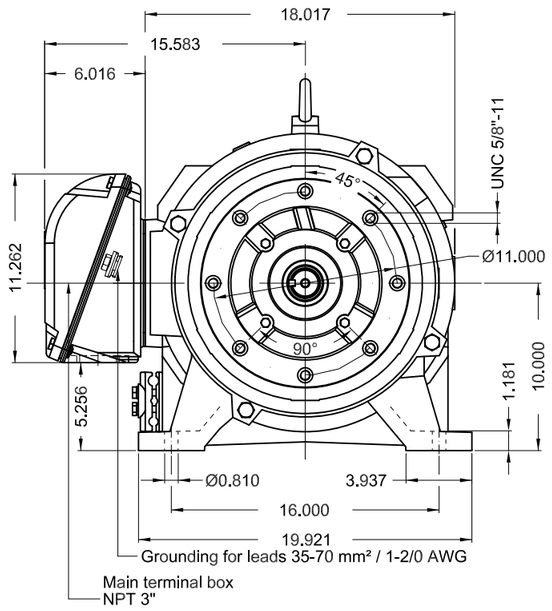

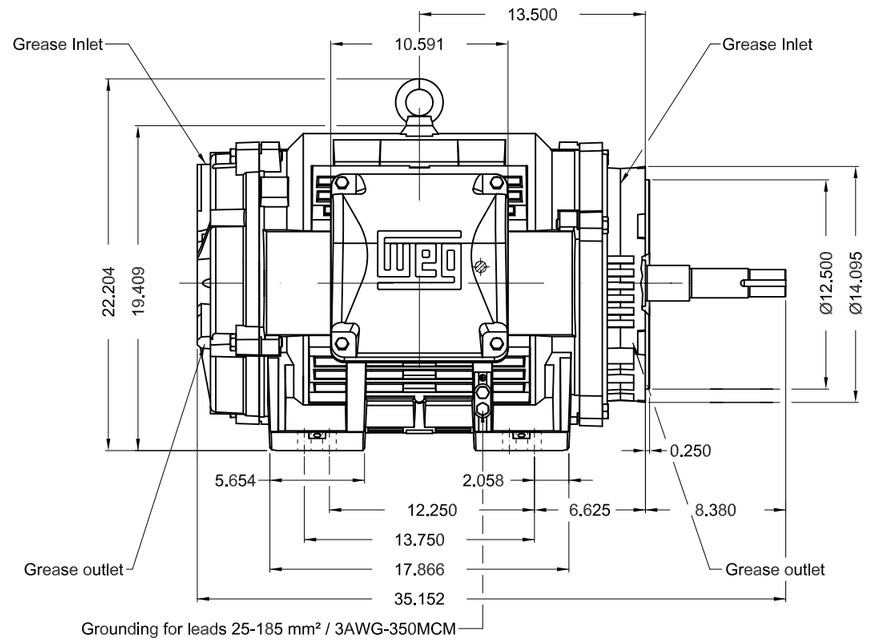

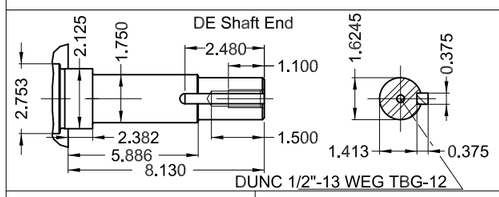

Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B34R(D)

75 HP 06 Poles 60Hz | A

1:9

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED	PIRWBUSER	THREE PHASE W40 MOTOR NEMA PREMIUM EFF	PREVIEW
CHECKED		FRAME 404/5JP IP23 ODP	WDD
RELEASED			
REL DT.		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

Dimensions in inches

XME A3