

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium Efficiency Three-Phase Product code : 14837654
Catalog # : 07536OT3H364JMV-W40

Frame	: 364/5JM	Locked rotor time	: 34s (cold) 19s (hot)
Output	: 75 HP (55 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 67.8 A	Protection degree	: IP23
L. R. Amperes	: 448 A	Cooling method	: IC01 - ODP
LRC	: 6.6x(Code G)	Mounting	: W-6
No load current	: 17.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3555 rpm	Noise level ²	: 84.0 dB(A)
Slip	: 1.25 %	Starting method	: Direct On Line
Rated torque	: 111 ft.lb	Approx. weight ³	: 685 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 6.40 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	91.0	91.7	93.0	93.6	Max. traction	: 607 lb
Power Factor	0.56	0.77	0.84	0.87	Max. compression	: 1291 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6212 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	7209 h	12143 h
Lubricant amount	:	27 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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			Revision	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

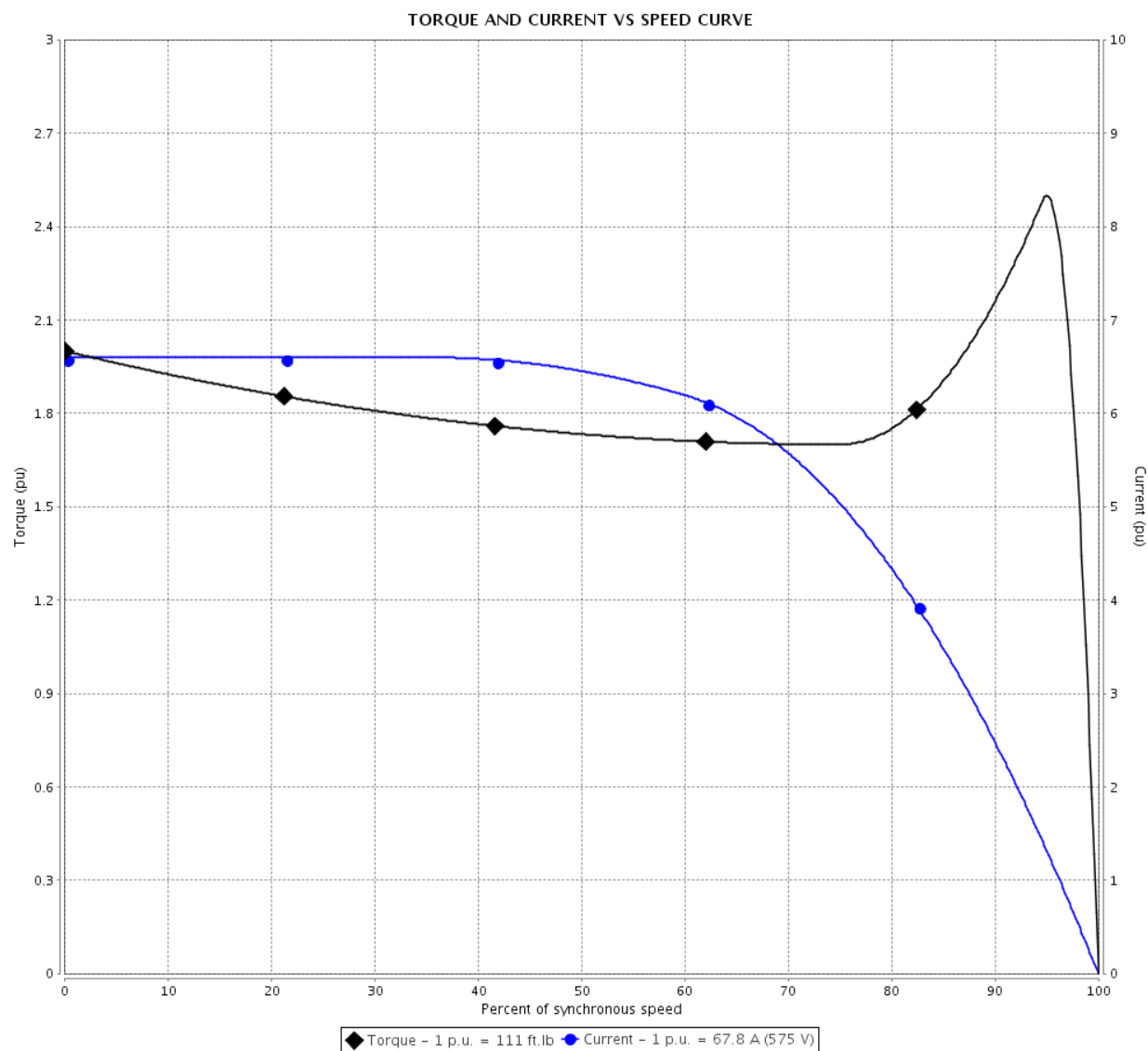


Customer :

Product line : W40 JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 14837654

Catalog # : 07536OT3H364JMV-W40



Performance : 575 V 60 Hz 2P

Rated current	: 67.8 A	Moment of inertia (J)	: 6.40 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 111 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3555 rpm	Design	: B

Locked rotor time : 34s (cold) 19s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

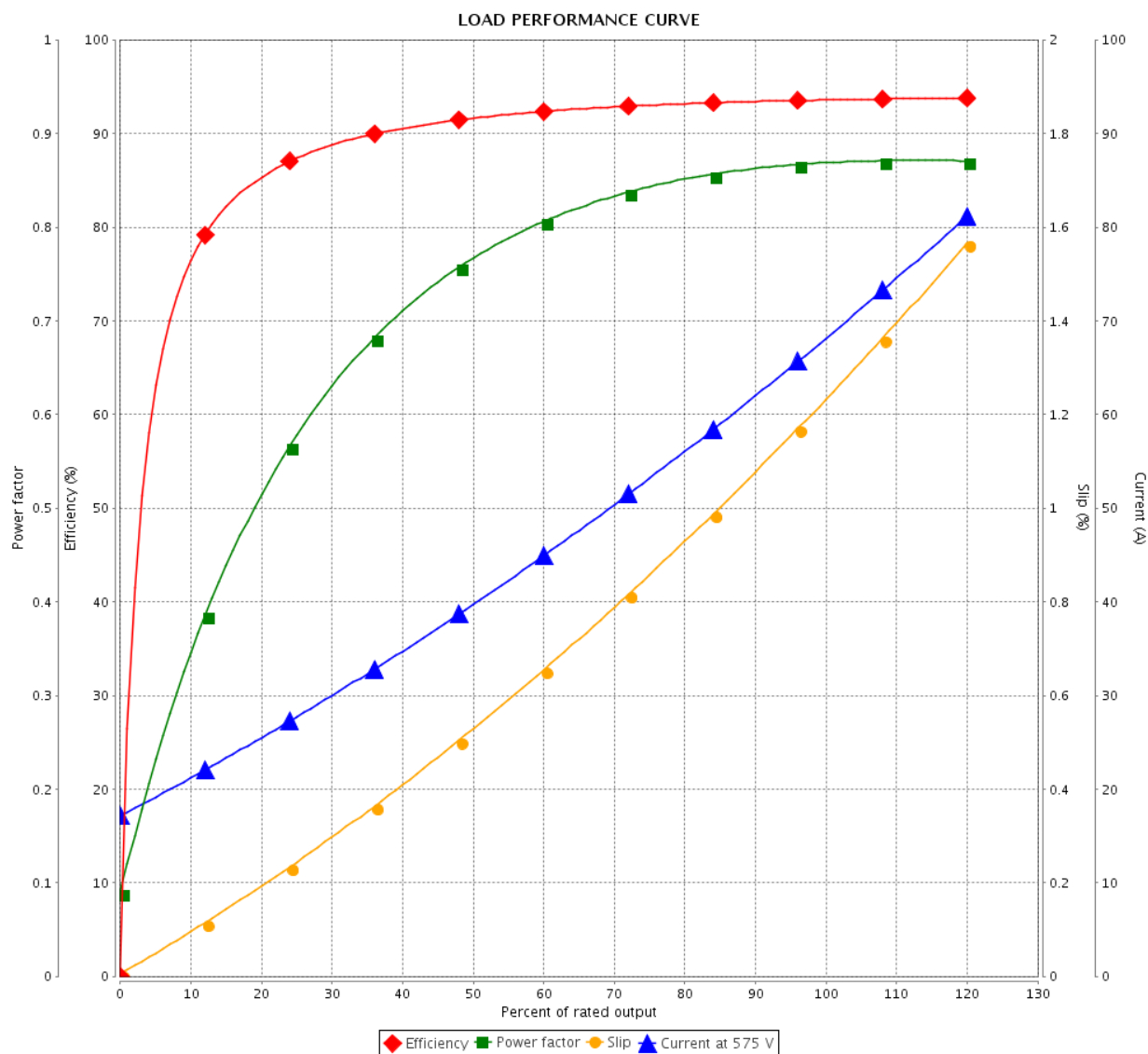


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Breakdown torque : 250 %
Rated speed : 3555 rpm

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Duty cycle : Cont.(S1)
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Temperature rise : 80 K
Design : B

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THERMAL LIMIT CURVE

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Product line

: W40 JM Pump NEMA Premium
Efficiency Three-Phase

Product code :

14837654

Catalog # :

07536OT3H364JMV-W40

Performance : 575 V 60 Hz 2P

Rated current

: 67.8 A

LRC

: 6.6

Rated torque

: 111 ft.lb

Locked rotor torque

: 200 %

Breakdown torque

: 250 %

Rated speed

: 3555 rpm

Moment of inertia (J)

: 6.40 sq.ft.lb

Duty cycle

: Cont.(S1)

Insulation class

: F

Service factor

: 1.25

Temperature rise

: 80 K

Design

: B

Heating constant

Cooling constant

Rev.

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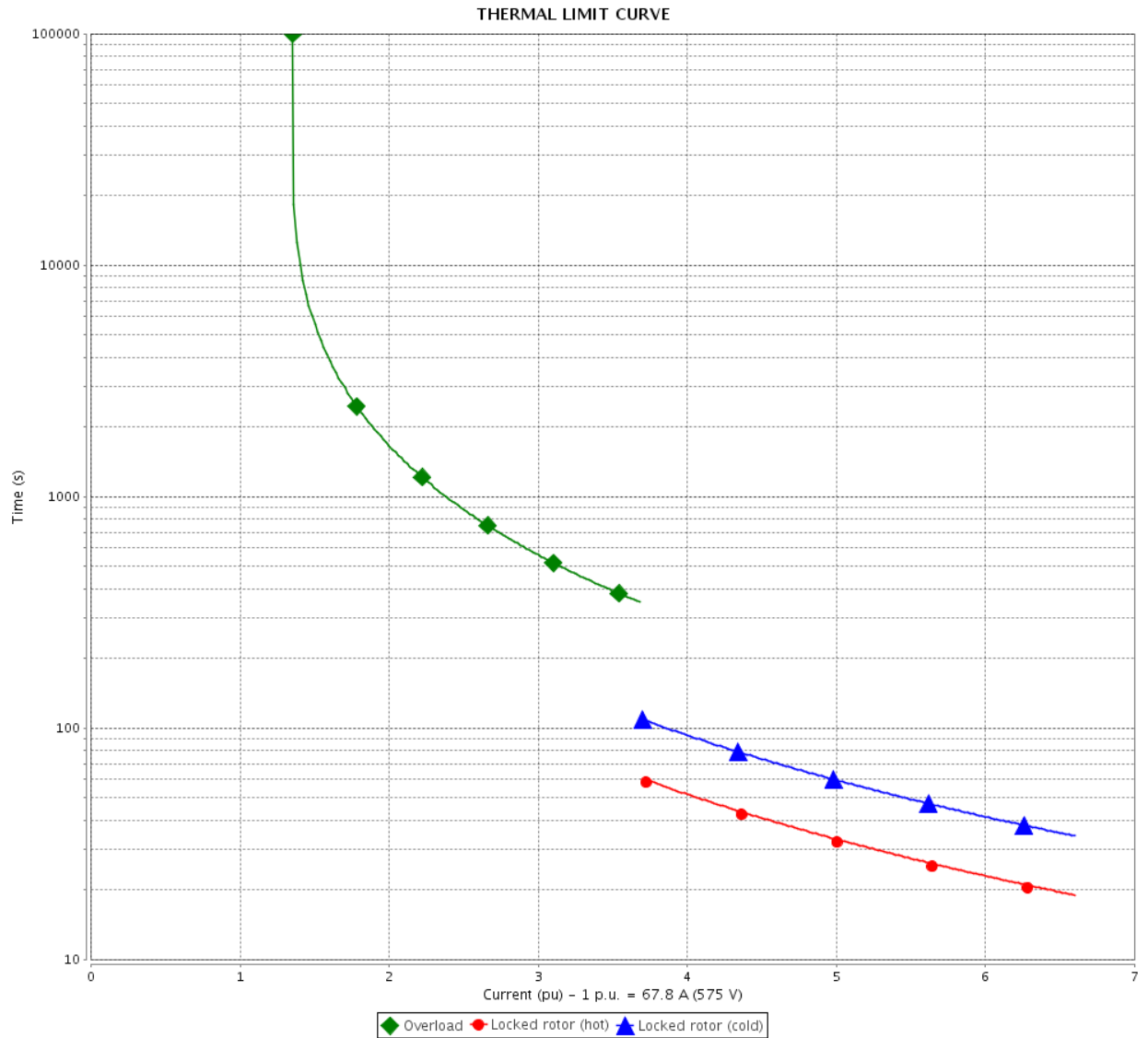
Revision

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

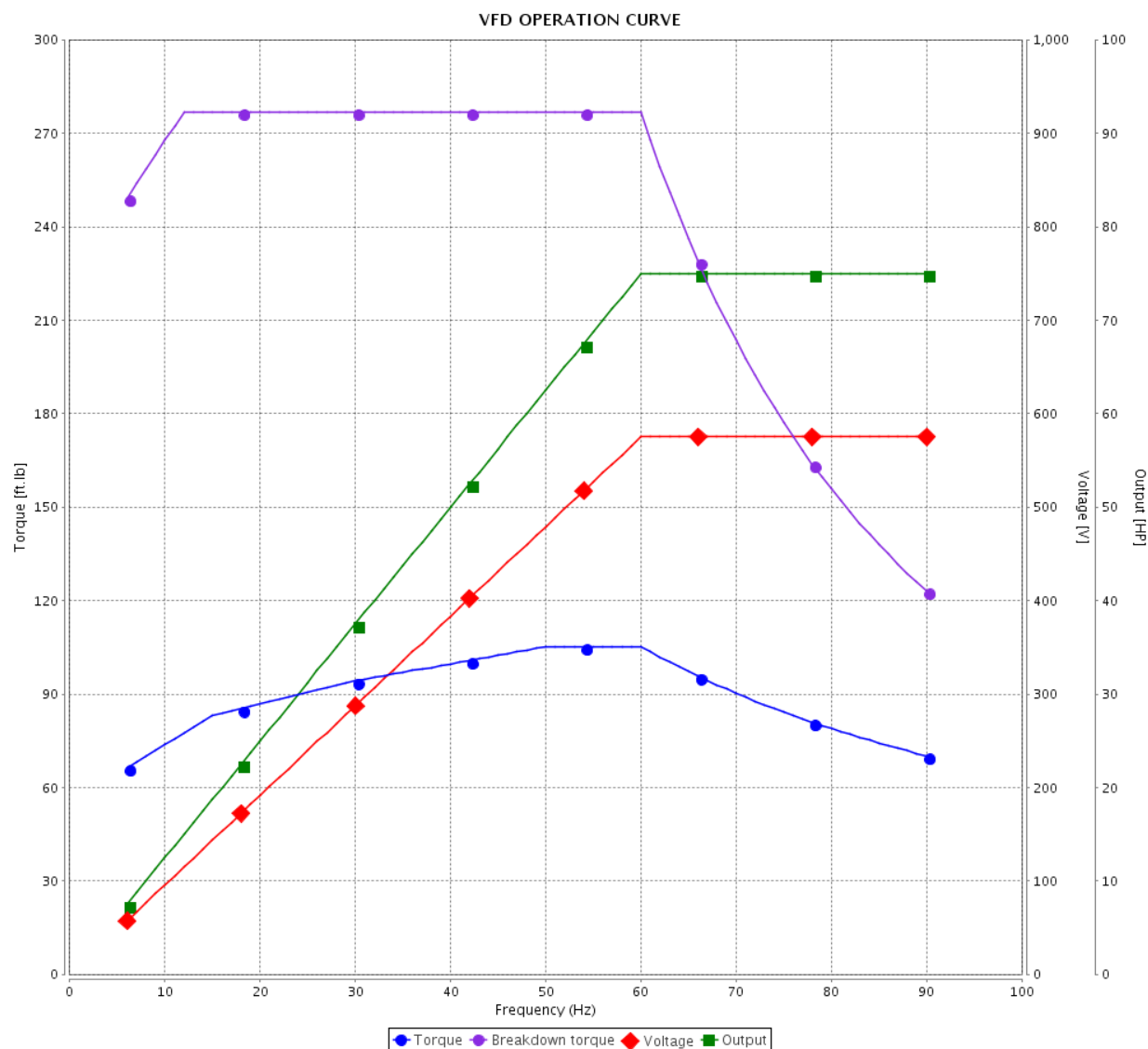


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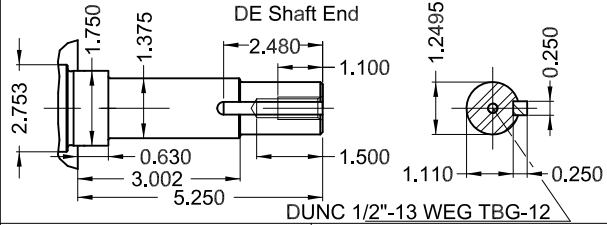
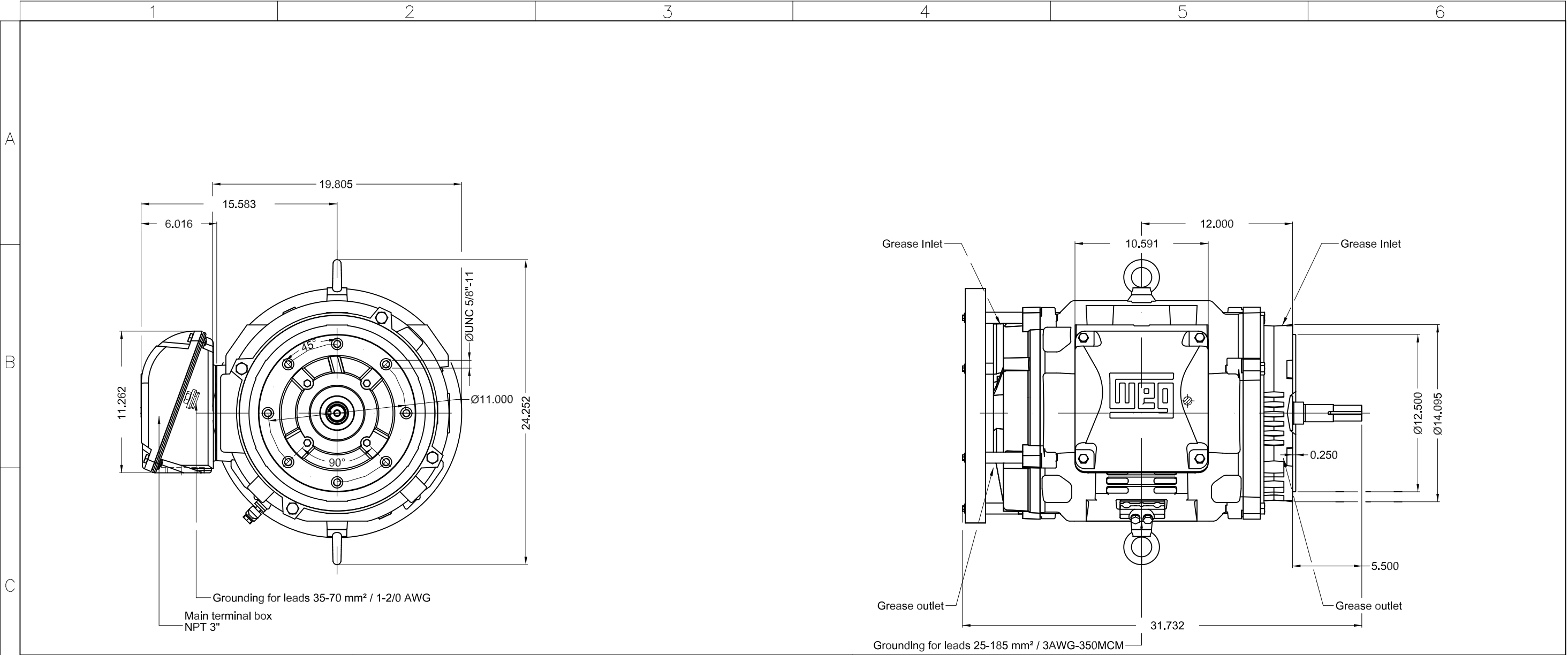


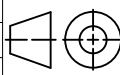
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75 HP 02 Poles 60Hz										A		
										1:8		
ECM		LOC		SUMMARY OF MODIFICATIONS			EXECUTED		CHECKED	RELEASED	DATE	VER
EXECUTED		PIRWBUSER		 THREE PHASE W40 MOTOR NEMA PREMIUM EFF FRAME 364/5JM IP23 ODP			PREVIEW WDD					
CHECKED												
RELEASED												
REL DT.				WMO Jaragua do Sul		Product Engineering		SHEET				

Color RAL 5009
Painting plan 203A
Mounting NEMA W-6
Mounting V18