DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12408371
		Catalog # :	06012XT3H404T

Frame	: 404/5T	Locked rotor time	: 52s (cold) 29s (hot)
Output	: 60 HP (45 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 56.2 A	Protection degree	: IP55
L. R. Amperes	: 388 A	Cooling method	: IC411 - TEFC
LRC	: 6.9x(Code H)	Mounting	: F-1
No load current	: 20.0 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1185 rpm	Noise level[2]	: 65.0 dB(A)
Slip	: 1.25 %	Starting method	: Direct On Line
Rated torque	: 266 ft.lb	Approx. weight[3]	: 1171 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 36.9 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%
Efficiency (%)	93.4	93.6	94.5	94.5
Power Factor	0.48	0.73	0.82	0.85

Foundation loads	
Max. traction	: 1567 lb
Max. compression	: 2738 lb

		Drive end	Non drive end
Bearing type	:	6217 C3	6314 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	13507 h	14267 h
Lubricant amount	:	21 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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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 ºC

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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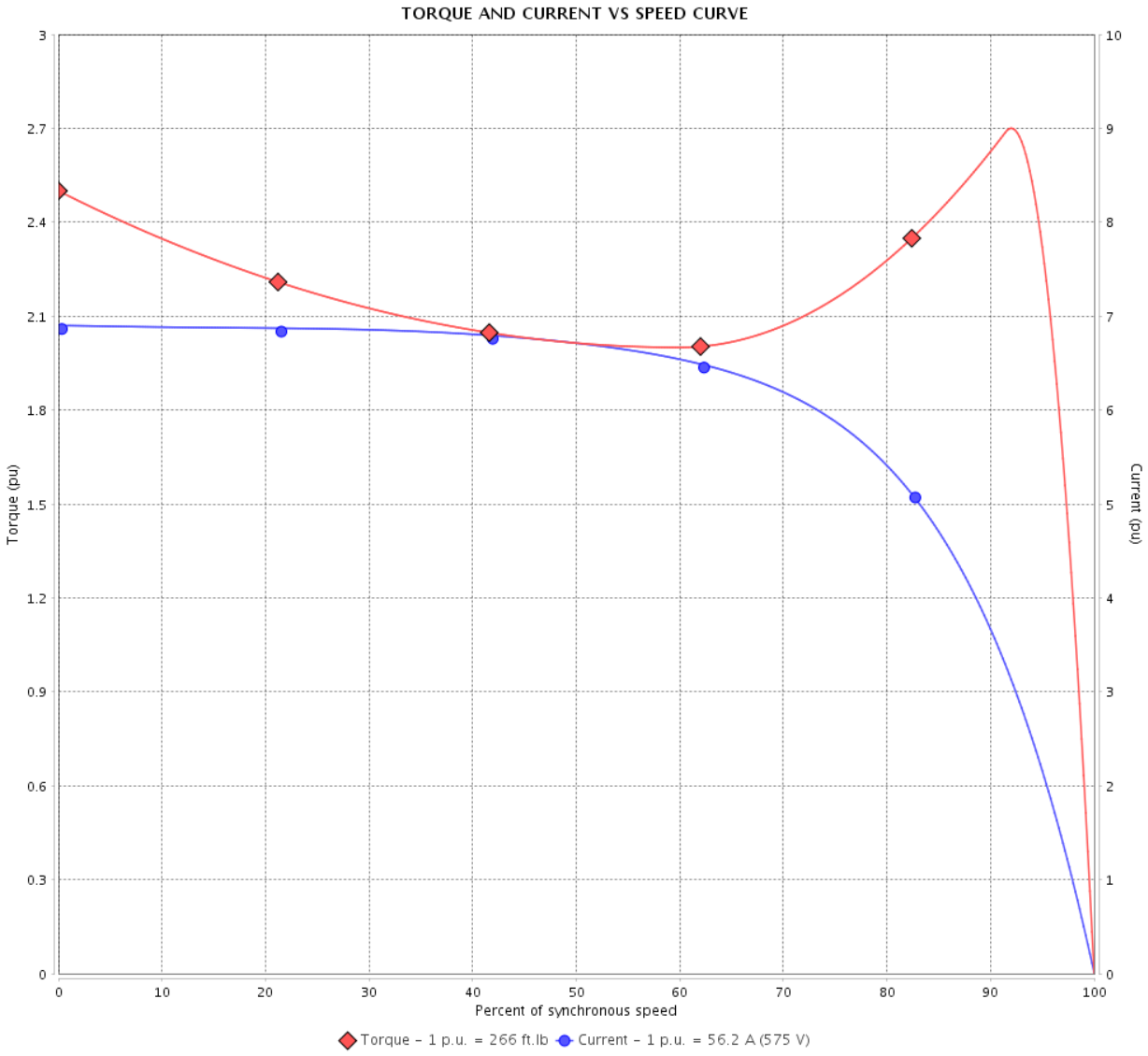

Performance	: 575 V 60 Hz 6P

Rated current	: 56.2 A	Moment of inertia (J)	: 36.9 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 266 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1185 rpm	Design	: B

Locked rotor time	: 52s (cold) 29s (hot)

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LOAD PERFORMANCE CURVE

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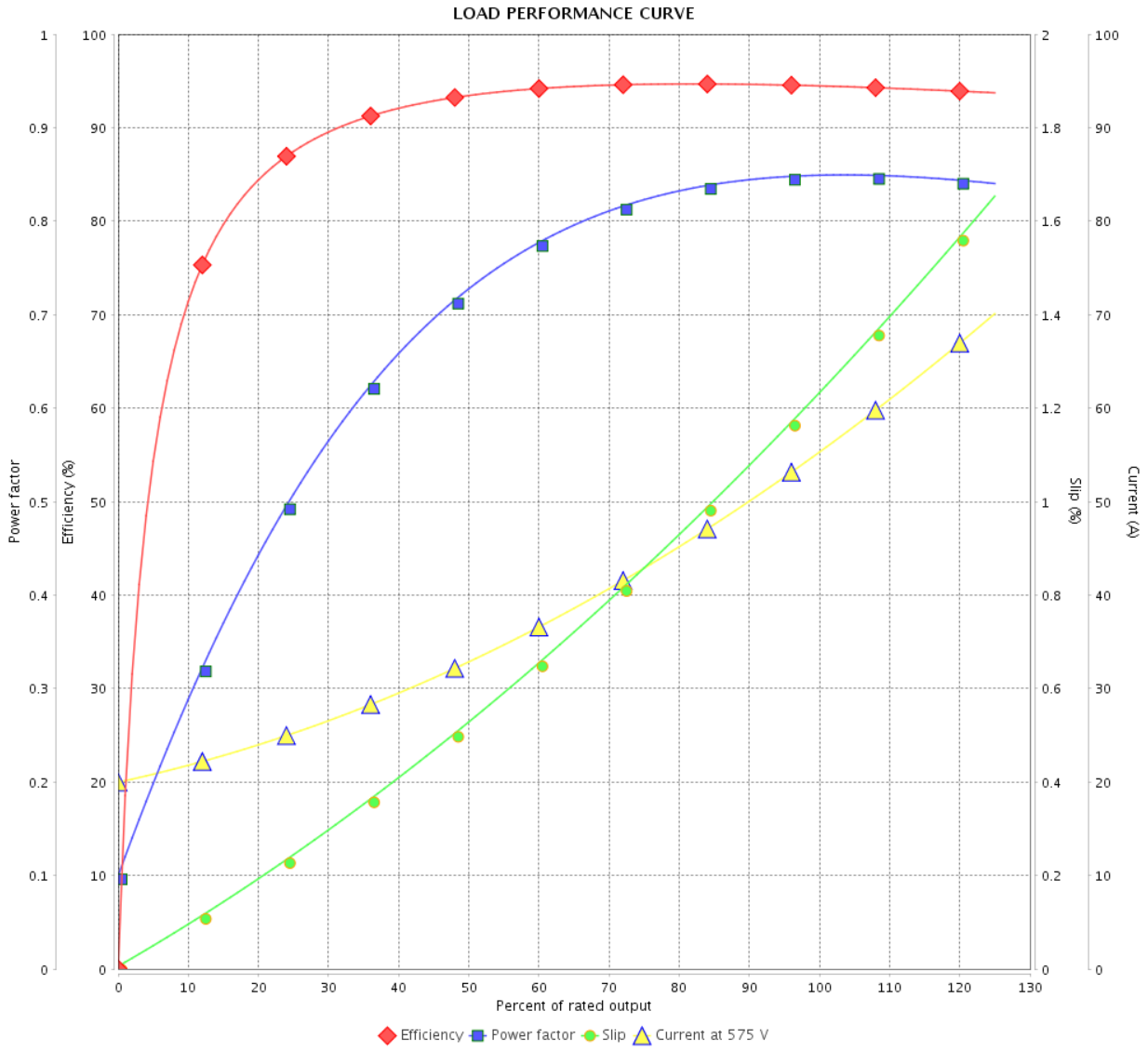

Performance	: 575 V 60 Hz 6P

Rated current	: 56.2 A	Moment of inertia (J)	: 36.9 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 266 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
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	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12408371
		Catalog # :	06012XT3H404T

Performance	: 575 V 60 Hz 6P

Rated current	: 56.2 A	Moment of inertia (J)	: 36.9 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 266 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1185 rpm	Design	: B

Heating constant	
Cooling constant	

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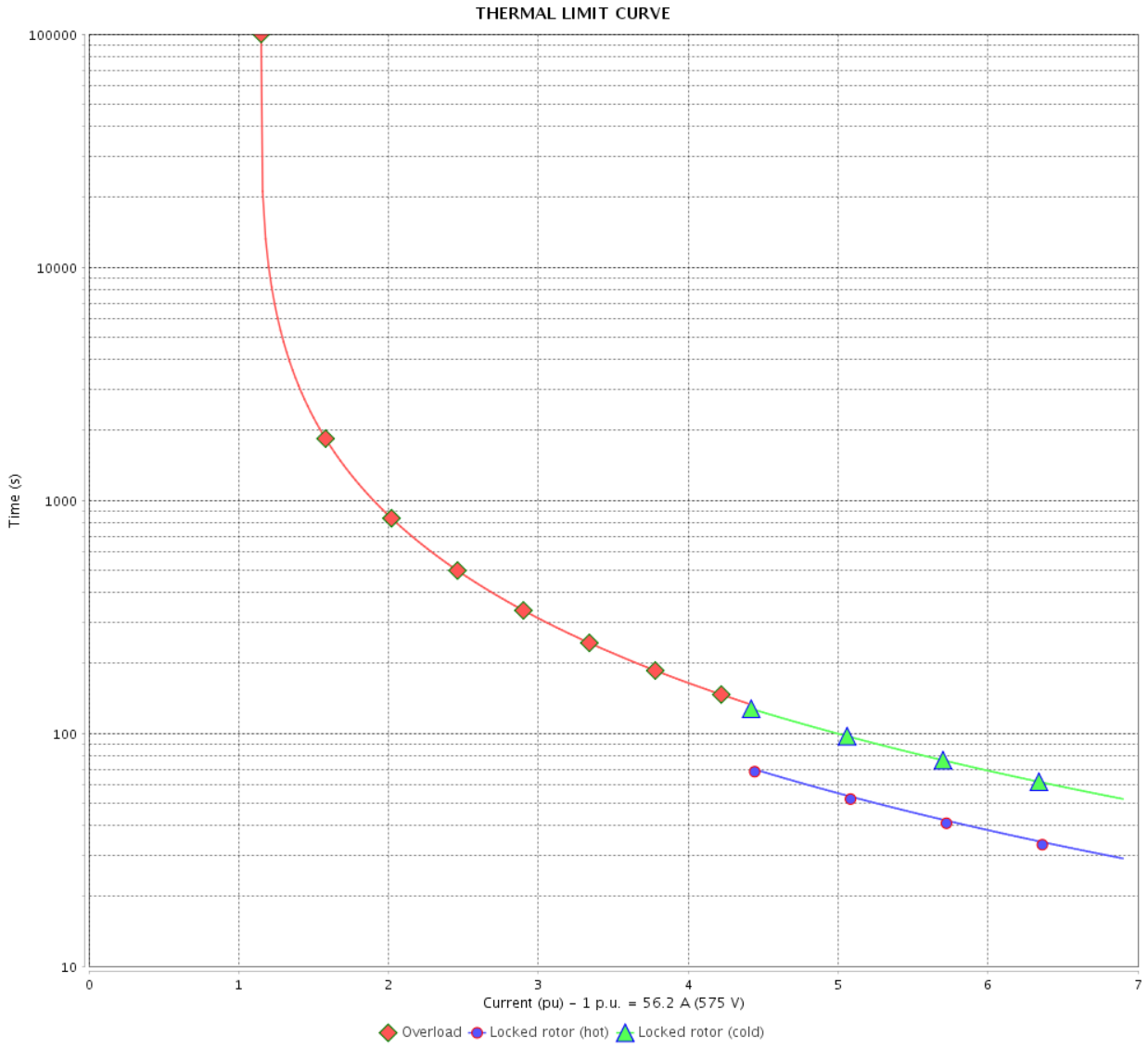
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

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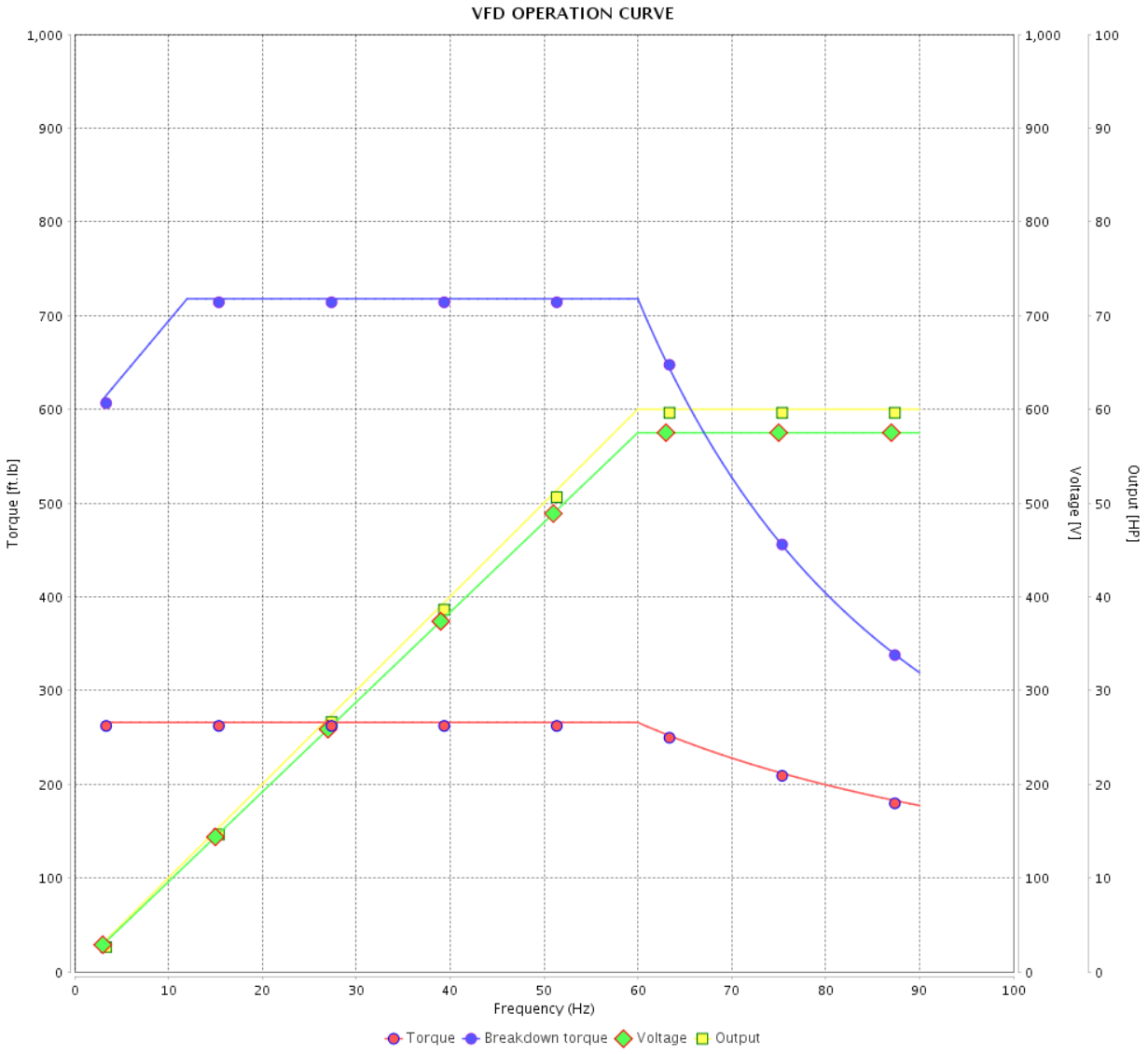
		Catalog # :	06012XT3H404T



Performance	: 575 V 60 Hz 6P		
Rated current	: 56.2 A	Moment of inertia (J)	: 36.9 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 266 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
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Rated speed	: 1185 rpm	Design	: B

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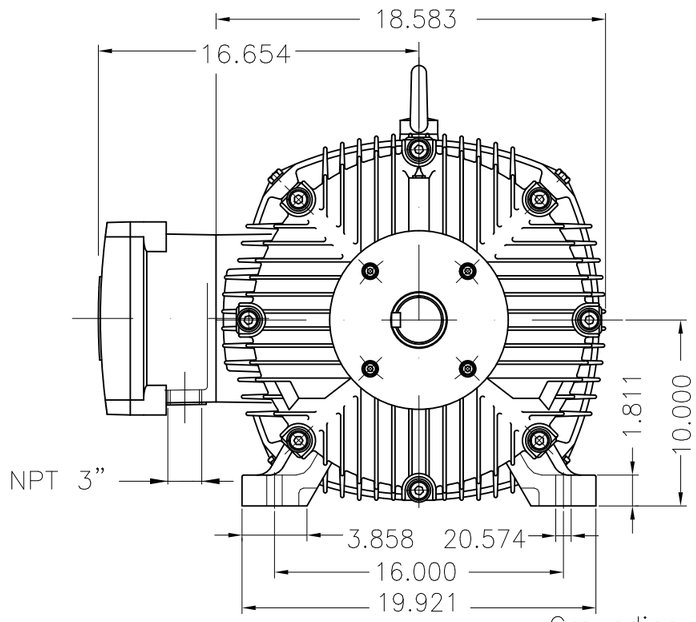
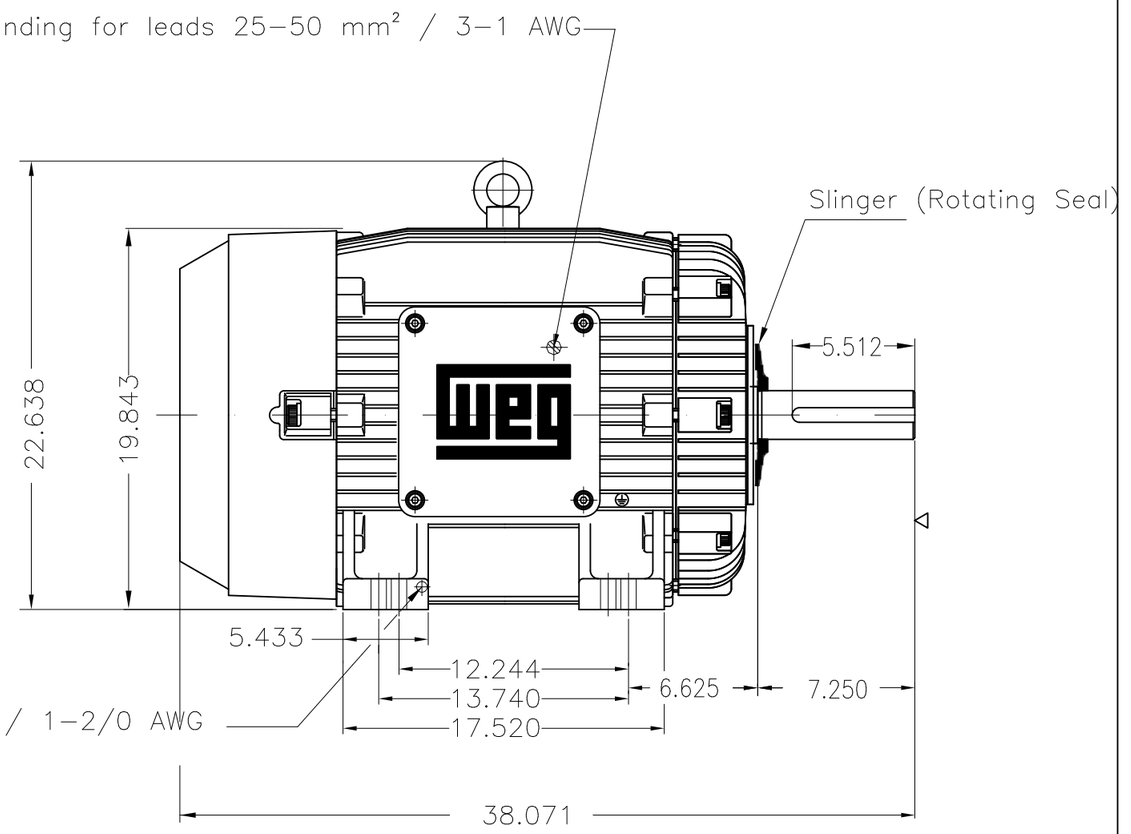
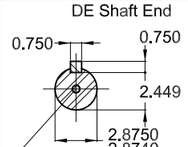




DE Shaft End



DUNC 3/4"-10 WEG WPR-7339

Color RAL 5009

Painting plan 202P

Mounting B3R(D)

60 HP 06 Poles 60 Hz | A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED	PIRWBUSER	THREE PH. MOTOR EXPLOSION PROOF PREM. EFF.	PREVIEW
CHECKED		FRAME 404/5T IP55 TEFC	WDD
RELEASED			
REL DT.		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

Dimensions in inches

XME A3