

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase Product code : 12674796
 Catalog # : 003180T3E182T-S

Frame	: 182/4T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 8.54-7.72/3.86 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 71.7-64.8/32.4 A	Mounting	: F-1
LRC	: 8.4x(Code K)	Rotation ¹	: Both (CW and CCW)
No load current	: 3.57-4.14/2.07 A	Noise level ²	: 55.0 dB(A)
Rated speed	: 1765 rpm	Starting method	: Direct On Line
Slip	: 1.94 %		
Rated torque	: 8.81 ft.lb		
Locked rotor torque	: 220 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.3092 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%
Efficiency (%)	86.4	87.5	88.5	89.5
Power Factor	0.35	0.60	0.73	0.80

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).
 (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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Date	14/05/2018			

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



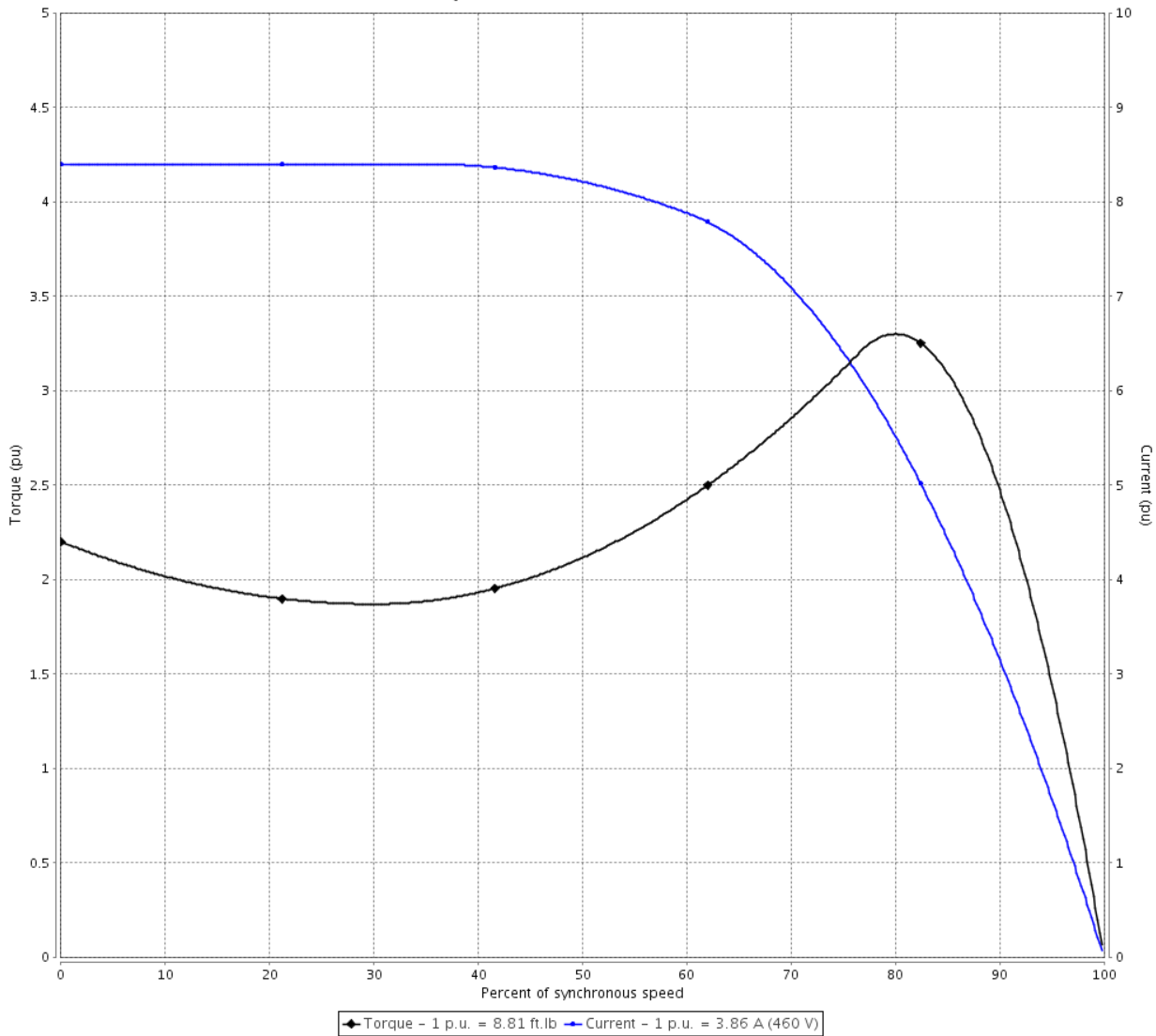
Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 12674796

Catalog # : 00318OT3E182T-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 208-230/460 V 60 Hz 4P

Rated current	: 8.54-7.72/3.86 A	Moment of inertia (J)	: 0.3092 sq.ft.lb
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 8.81 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

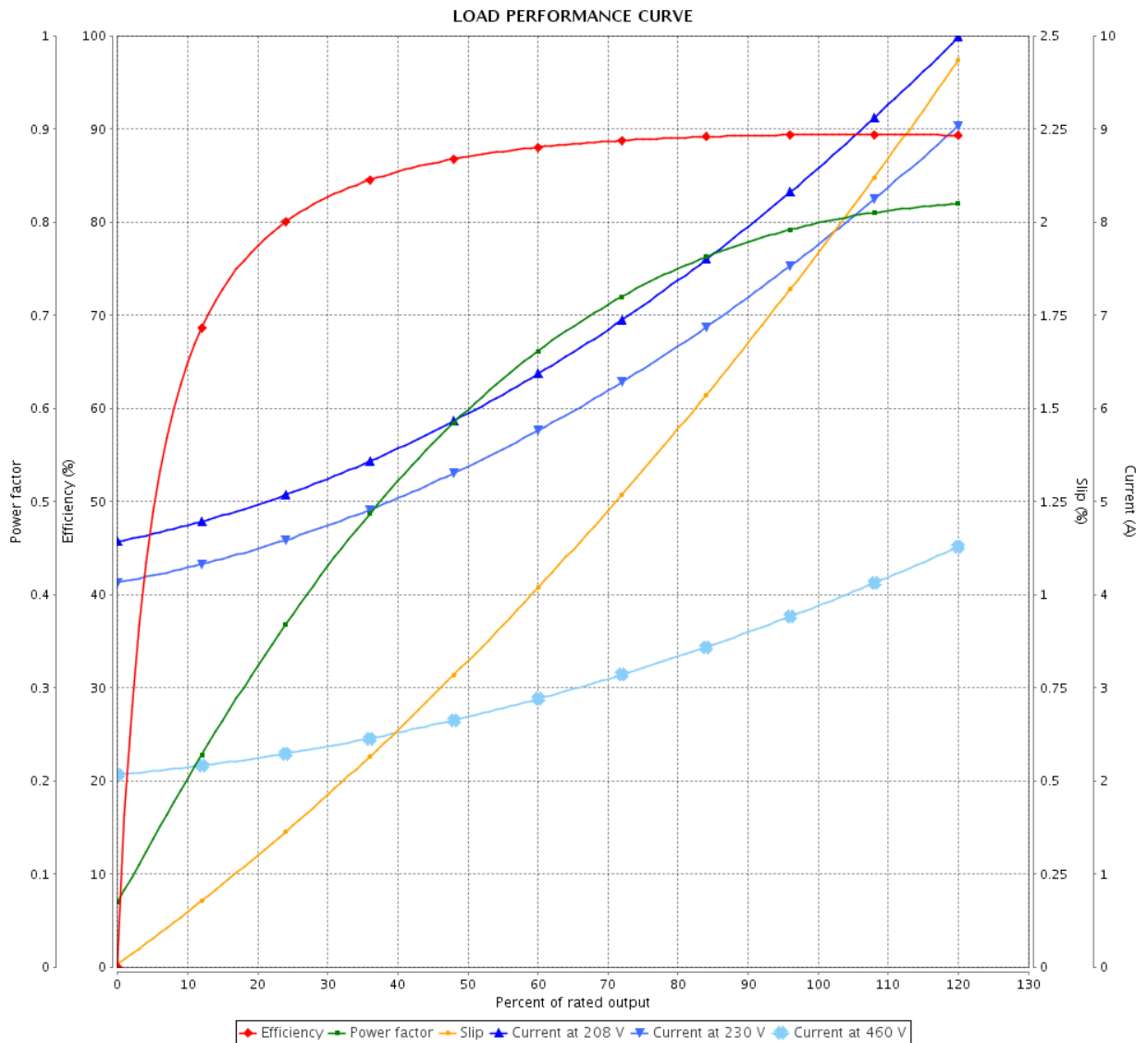


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Catalog # : 00318OT3E182T-S



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THERMAL LIMIT CURVE



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Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Heating constant
Cooling constant

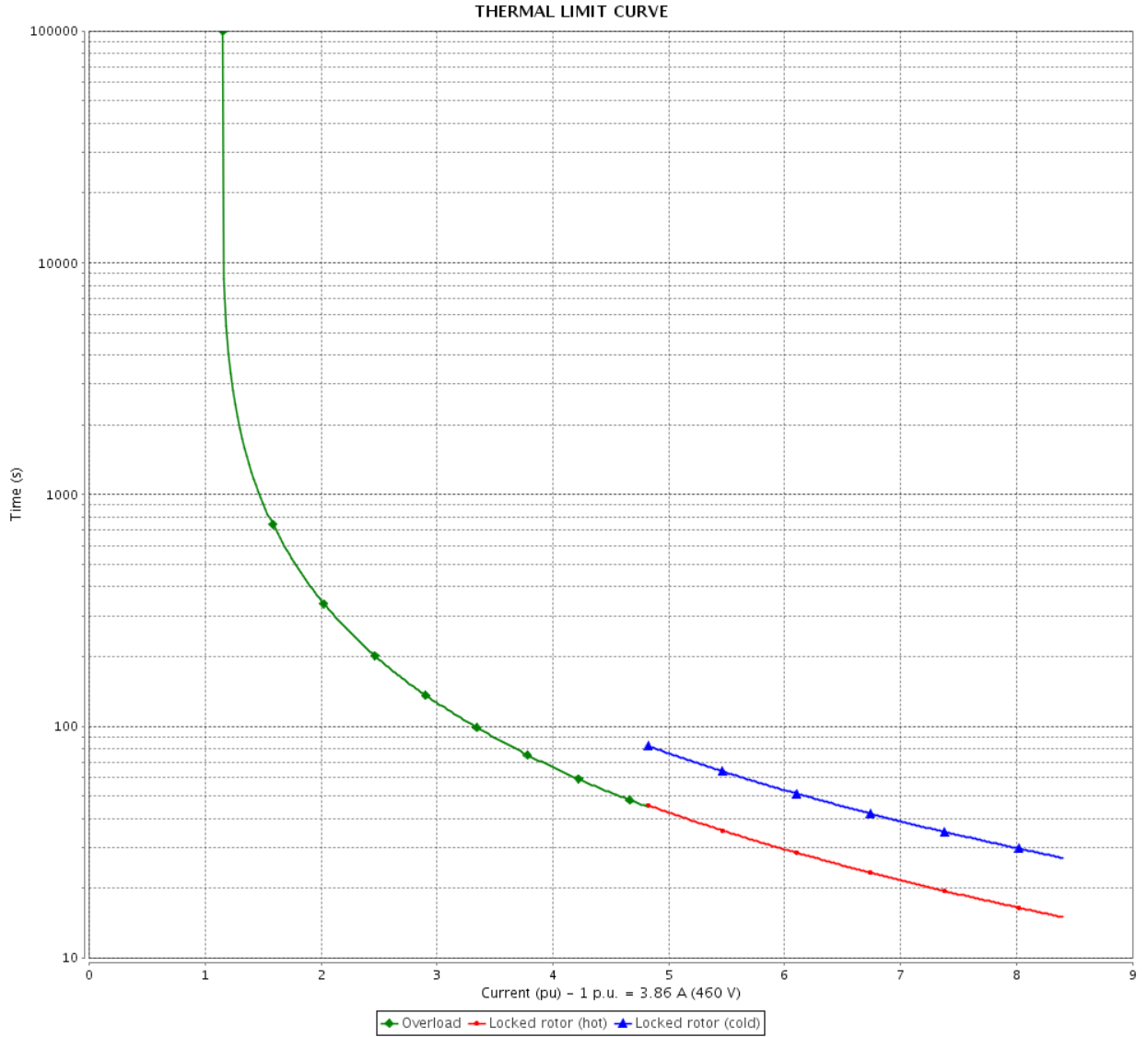
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

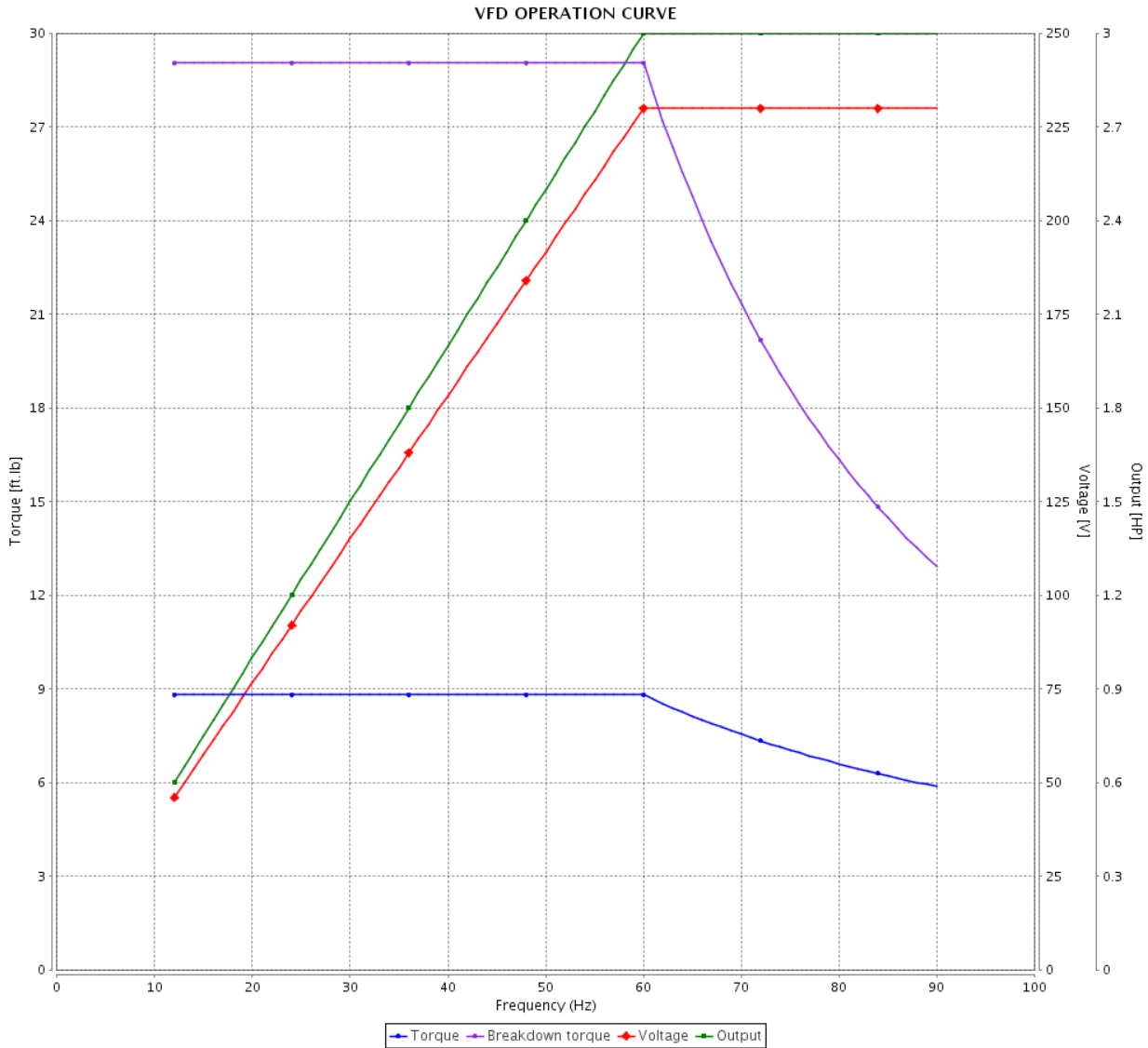


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Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

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Performance : 208-230/460 V 60 Hz 4P

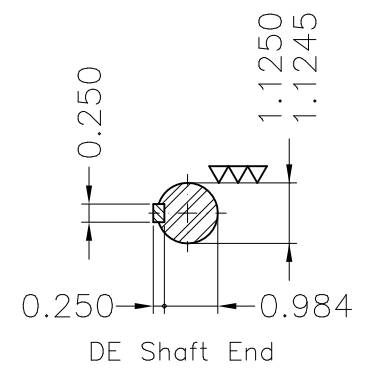
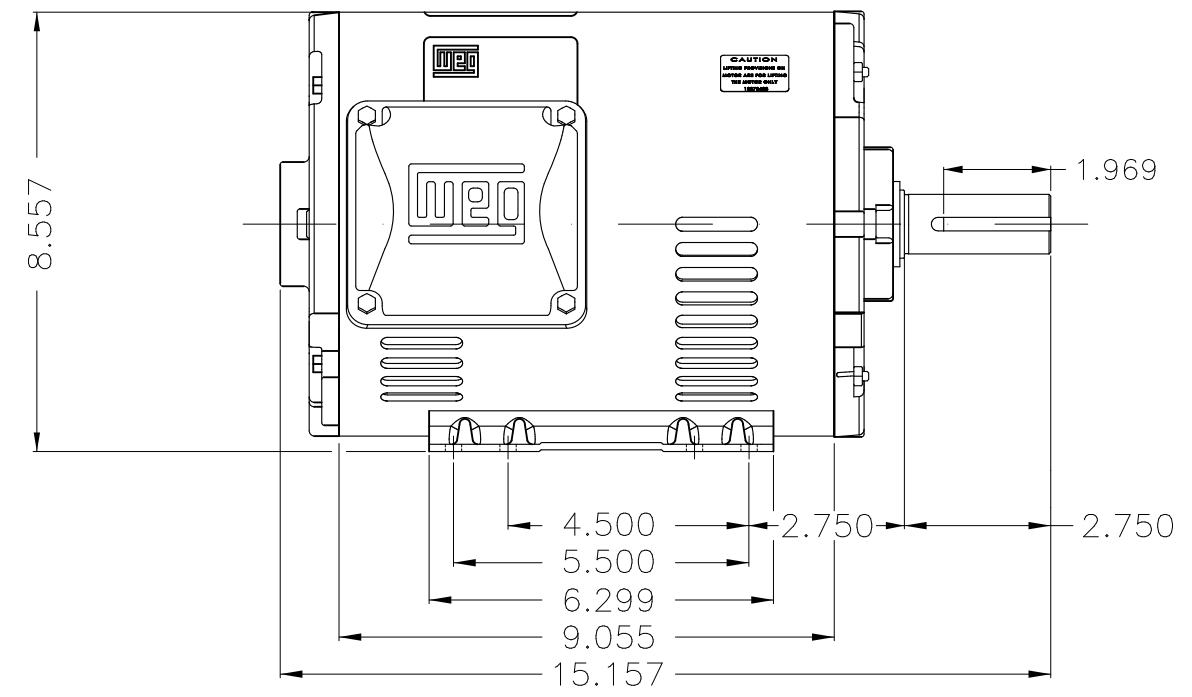
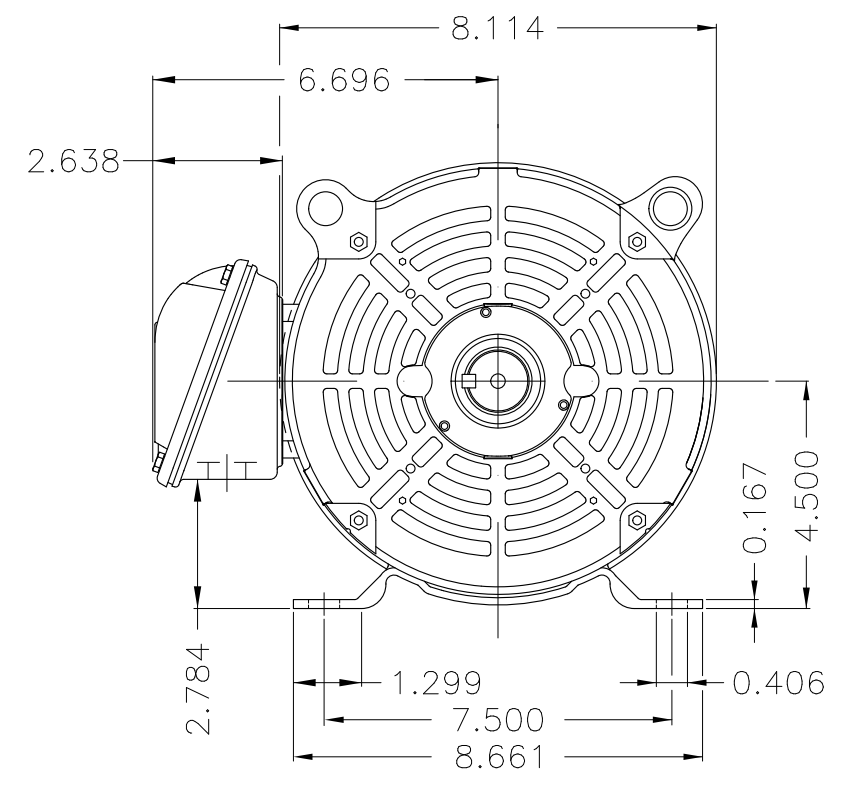
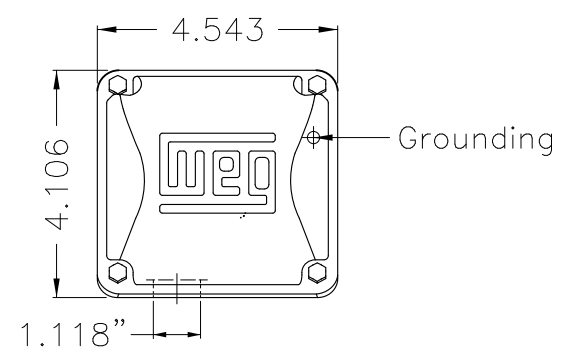
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Dimensões em polegada
Dimensions in inches

THIS IS AN UPDATED REVISION, THE
PREVIOUS ONE MUST BE DISREGARDED.



Color Munsell N 1 matte black
Painting plan 207N
Mounting F-1/B3R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	THREE P. MOTOR OPEN ROLLED STEEL NEMA PREM					
CHECKED		FRAME 182/4T ODP					
RELEASED		WEG code: 12674796					
REL DT	14.05.2018	WMO Jaragua do Sul	Product Engineering	SHEET	1 / 1		

3 HP 04 Poles 60Hz

A

