

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Rolled Steel Standard Efficiency Three-Phase		Product code : 14593011 Catalog # : .2518ES3EBMW56-S	
Frame	: W56	Locked rotor time	: 54s (cold) 30s (hot)		
Output	: 0.25 HP (0.18 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	: 1.11-1.01/0.503 A	Protection degree	: IP55		
L. R. Amperes	: 5.88-5.33/2.67 A	Cooling method	: IC411 - TEFC		
LRC	: 5.3x(Code K)	Mounting	: F-1		
No load current	: 0.716-0.830/0.415 A	Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1735 rpm	Noise level ²	: 50.0 dB(A)		
Slip	: 3.61 %	Starting method	: Direct On Line		
Rated torque	: 0.757 ft.lb	Approx. weight ³	: 22.7 lb		
Locked rotor torque	: 240 %				
Breakdown torque	: 290 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0280 sq.ft.lb				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	55.0	62.0	66.0	Max. traction : 13 lb	
Power Factor	0.48	0.59	0.68	Max. compression : 35 lb	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6203 ZZ	6202 ZZ		
Sealing	:	V'Ring	V'Ring		
Lubrication interval	:	-	-		
Lubricant amount	:	-	-		
Lubricant type	:	Mobil Polyrex EM			
Notes USABLE @208V SF 1.00					
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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Date	10/04/2020			Page 1 / 7	Revision

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Customer :

Brake information

Voltage: 208-230/460//190/380 V
Brake Torque: 2.95 ft.lb

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

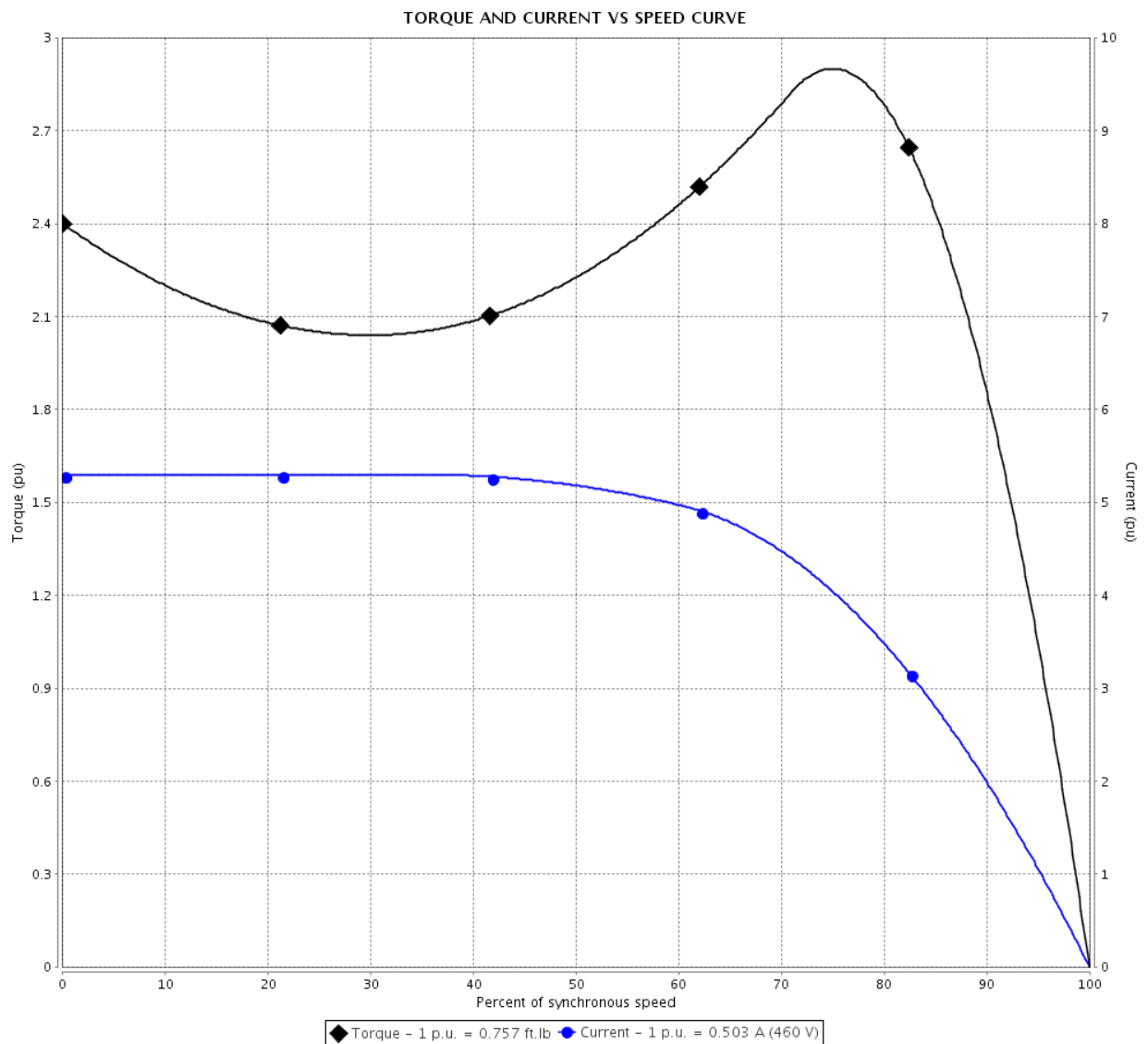


Customer :

Product line : Rolled Steel Standard Efficiency
Three-Phase

Product code : 14593011

Catalog # : .2518ES3EBMW56-S



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

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 LRC : 5.3
 Rated torque : 0.757 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 290 %
 Rated speed : 1735 rpm

Moment of inertia (J) : 0.0280 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

Locked rotor time : 54s (cold) 30s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

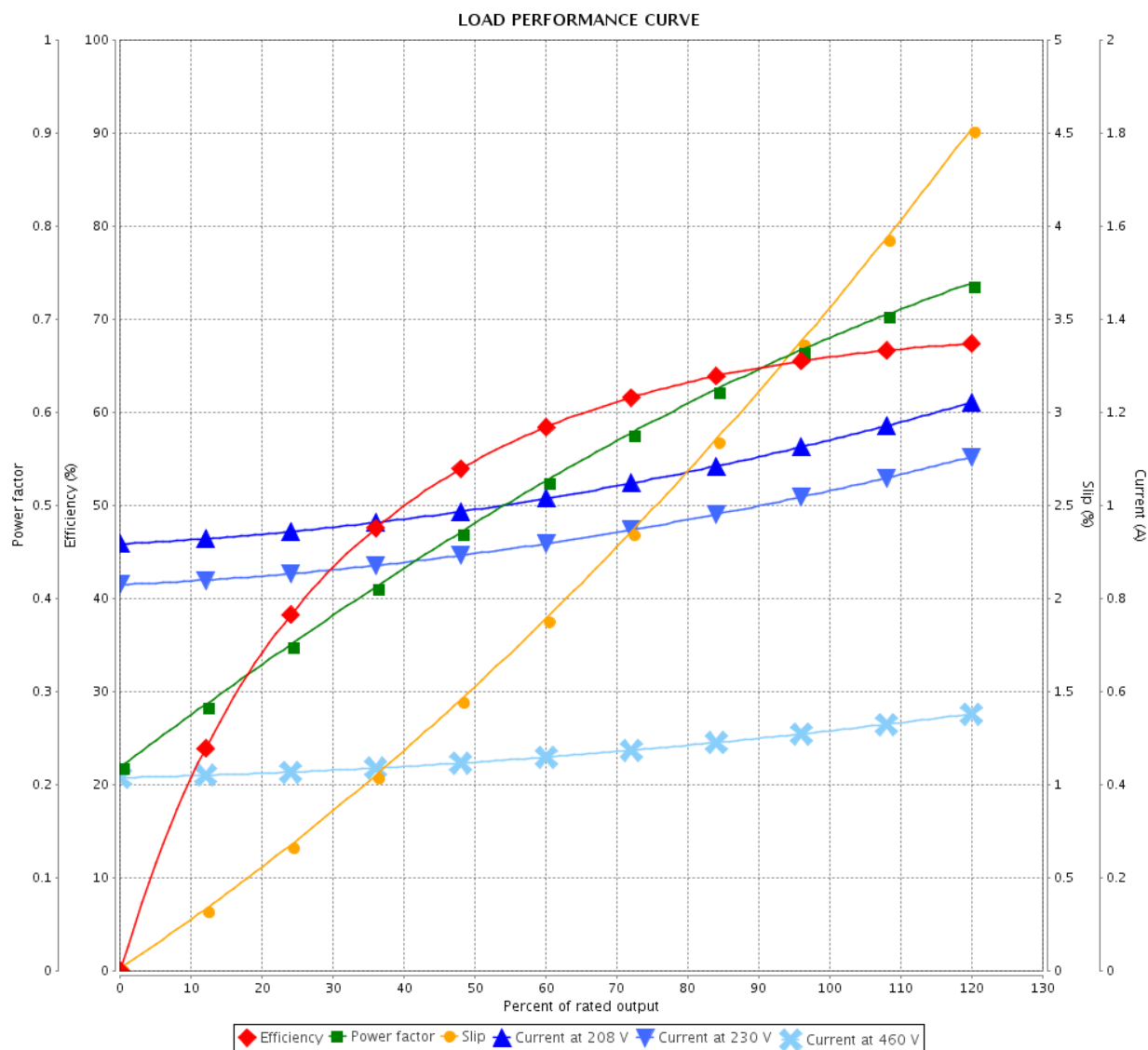


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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

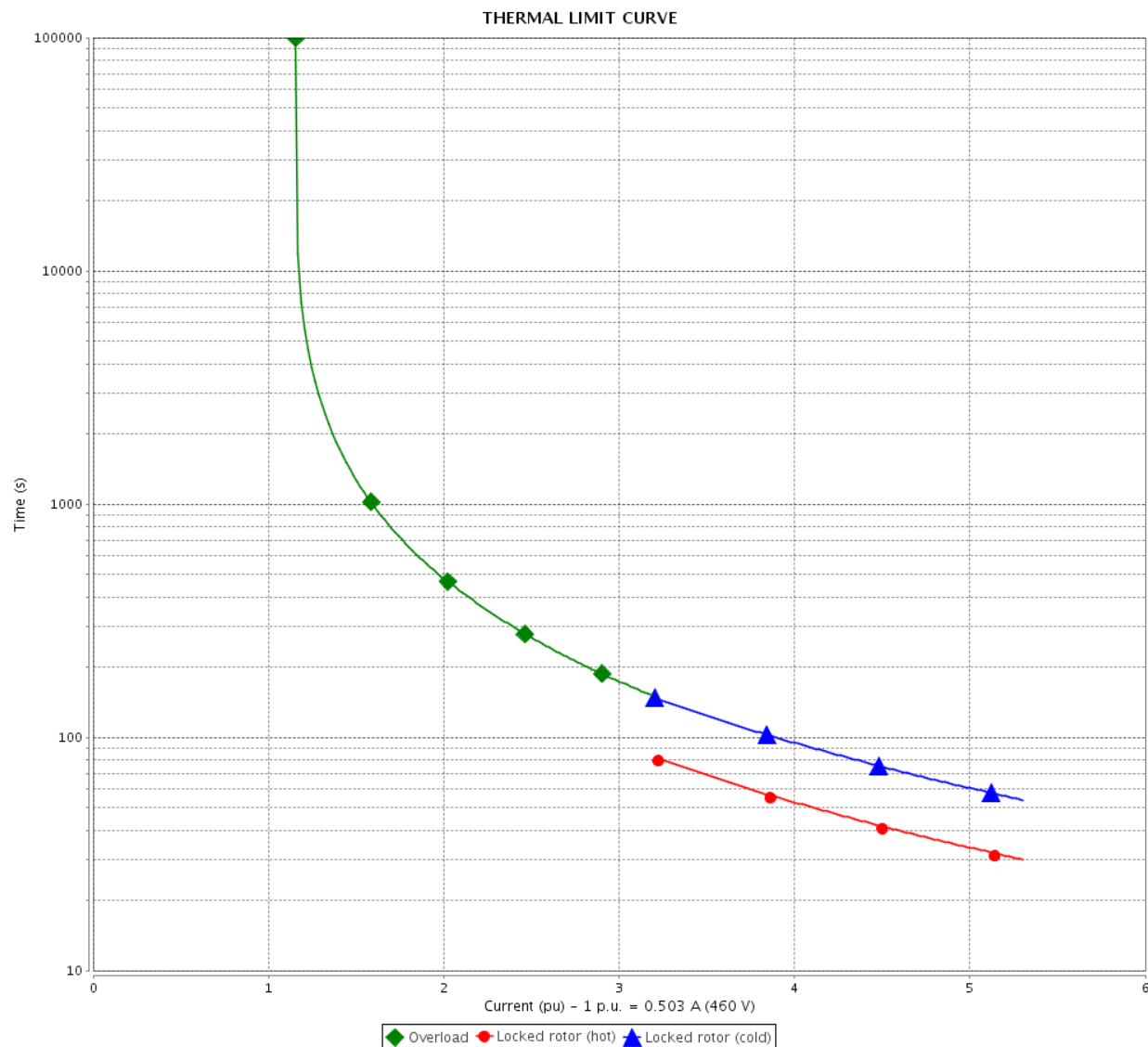
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

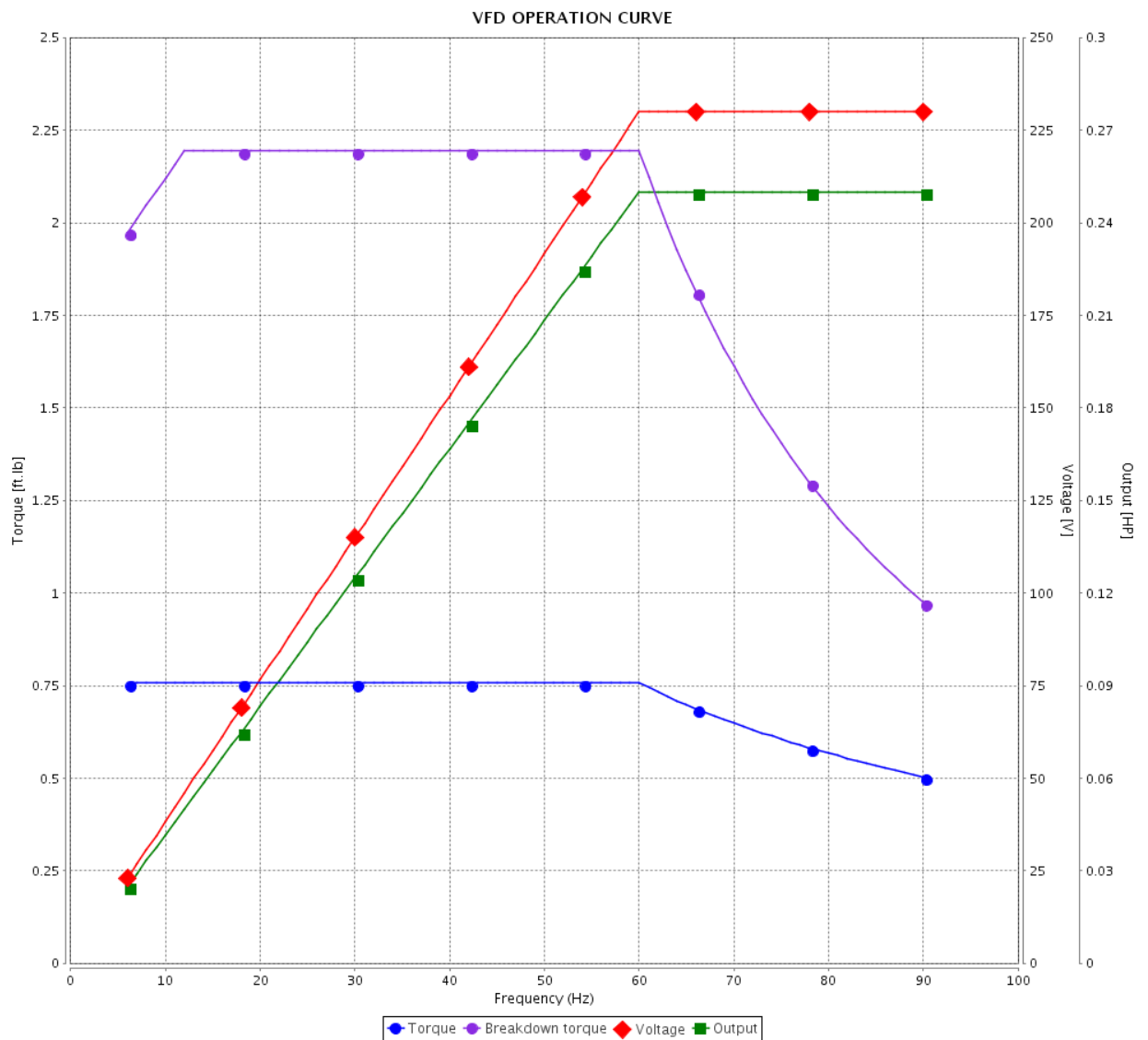


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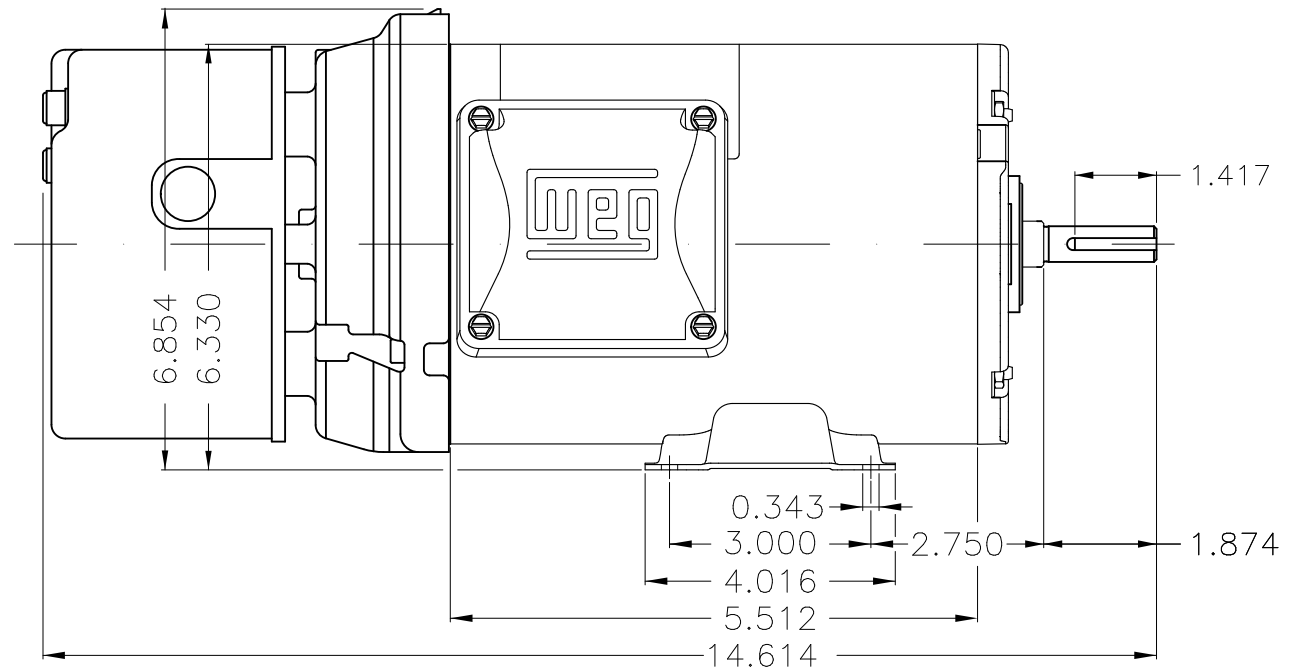
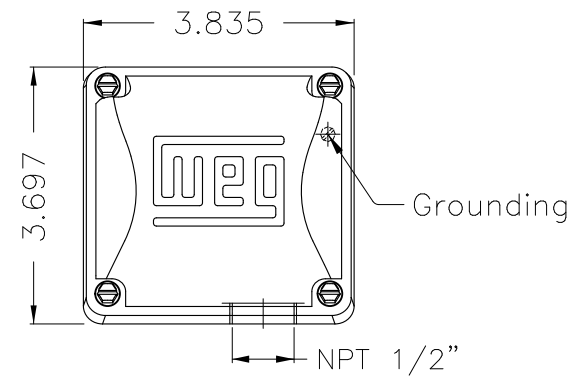
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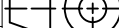

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THIS IS AN UPDATED REVISION, THE
PREVIOUS ONE MUST BE DISREGARDED.



ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN		THREE PHASE MOTOR CLOSED ROLLED STEEL						
CHECKED			FRAME W56 IP55 TEFC						
RELEASED			WEG code: 14593011						
REL DT	10.04.2020	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			

0.25 HP	04 Poles	60Hz
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