

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	: Automation Direct				
Product line	: Premium Efficiency Three-Phase		Product code :	14797781	
			Catalog # :	00112ET3E56C-S	
Frame	: 56HC		Locked rotor time	: 55s (cold) 31s (hot)	
Output	: 1 HP (0.75 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	: 3.16/1.58 A		Protection degree	: IP55	
L. R. Amperes	: 18.3/9.16 A		Cooling method	: IC411 - TEFC	
LRC	: 5.8x(Code J)		Mounting	: F-1	
No load current	: 2.03/1.01 A		Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1145 rpm		Noise level ²	: 50.0 dB(A)	
Slip	: 4.58 %		Starting method	: Direct On Line	
Rated torque	: 4.59 ft.lb		Approx. weight ³	: 38.6 lb	
Locked rotor torque	: 229 %				
Breakdown torque	: 280 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.1597 sq.ft.lb				
Design	: B				
Output	25%	50%	75%	100%	
Efficiency (%)	79.5	80.0	82.5	82.5	
Power Factor	0.28	0.50	0.63	0.72	
	Foundation loads				
			Max. traction	: 108 lb	
			Max. compression	: 147 lb	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6204 ZZ	6202 ZZ		
Sealing	:	V'Ring	Without Bearing Seal		
Lubrication interval	:	-	-		
Lubricant amount	:	-	-		
Lubricant type	:	Mobil Polyrex EM			
Notes					
USABLE @208V 3.50A SF 1.00 SFA 3.50A					
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

Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

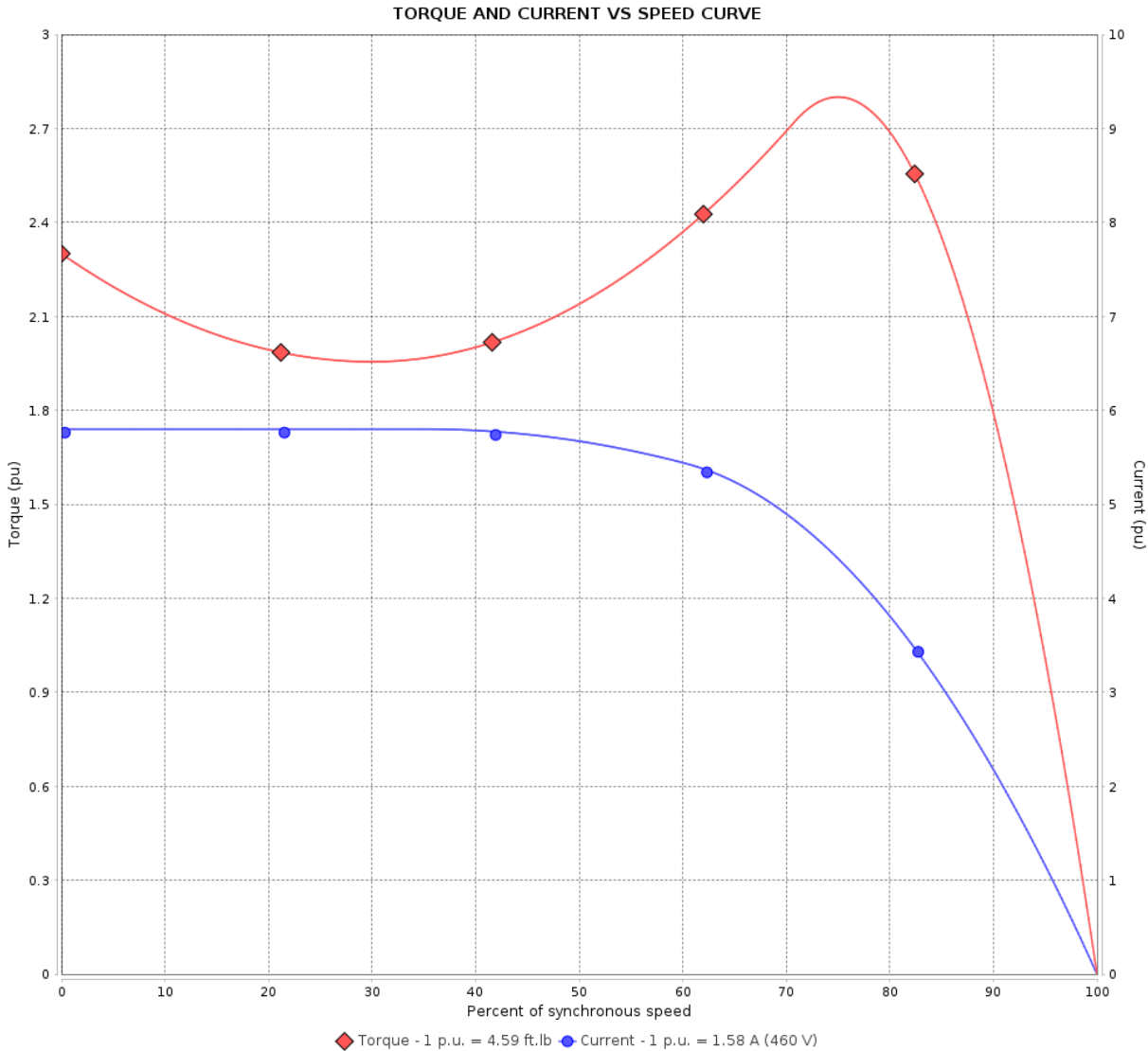
Product line : Premium Efficiency Three-Phase

Product code :

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Performance : 230/460 V 60 Hz 6P

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 Breakdown torque : 280 %
 Rated speed : 1145 rpm

Moment of inertia (J) : 0.1597 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

Locked rotor time : 55s (cold) 31s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

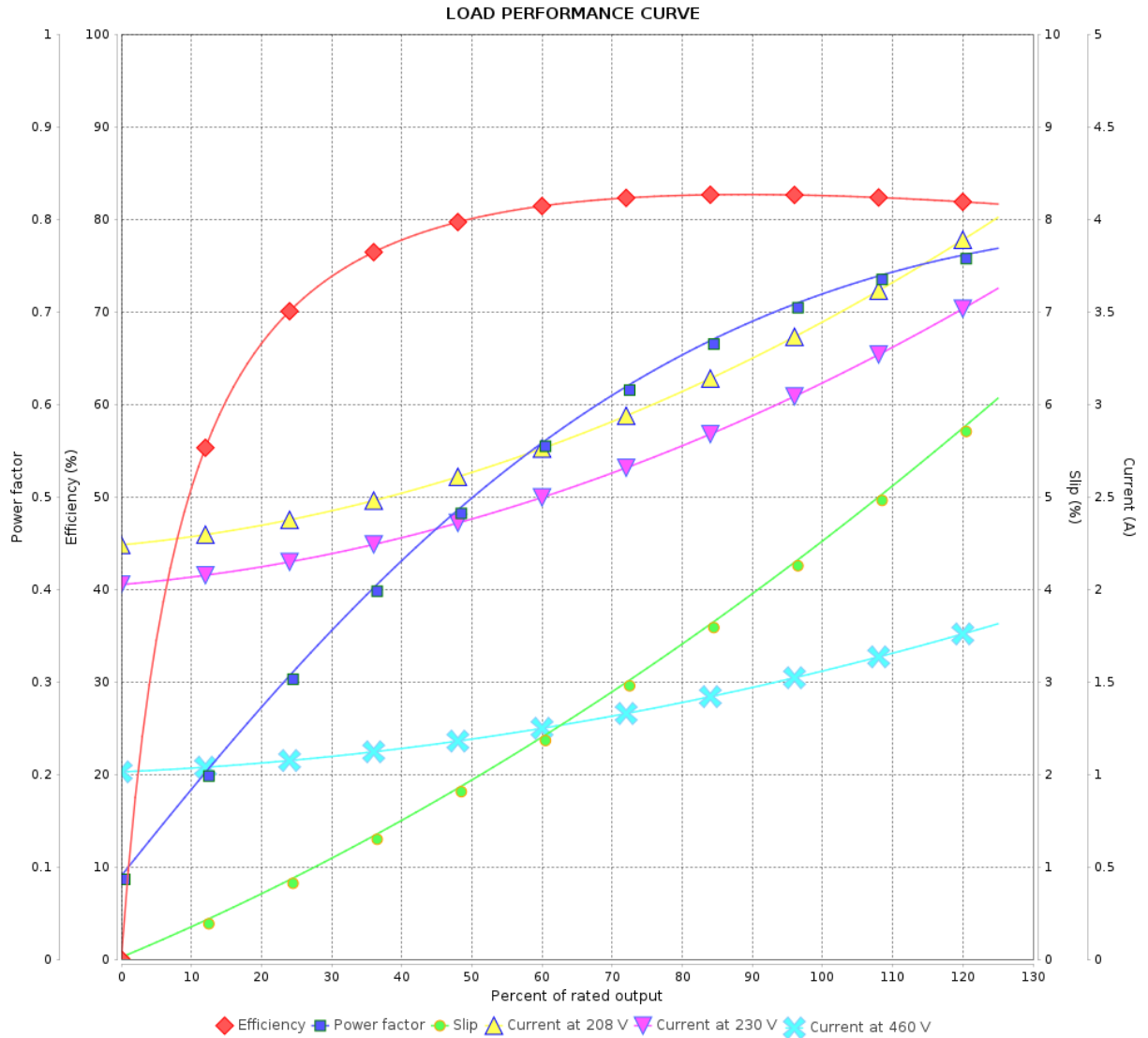


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THERMAL LIMIT CURVE

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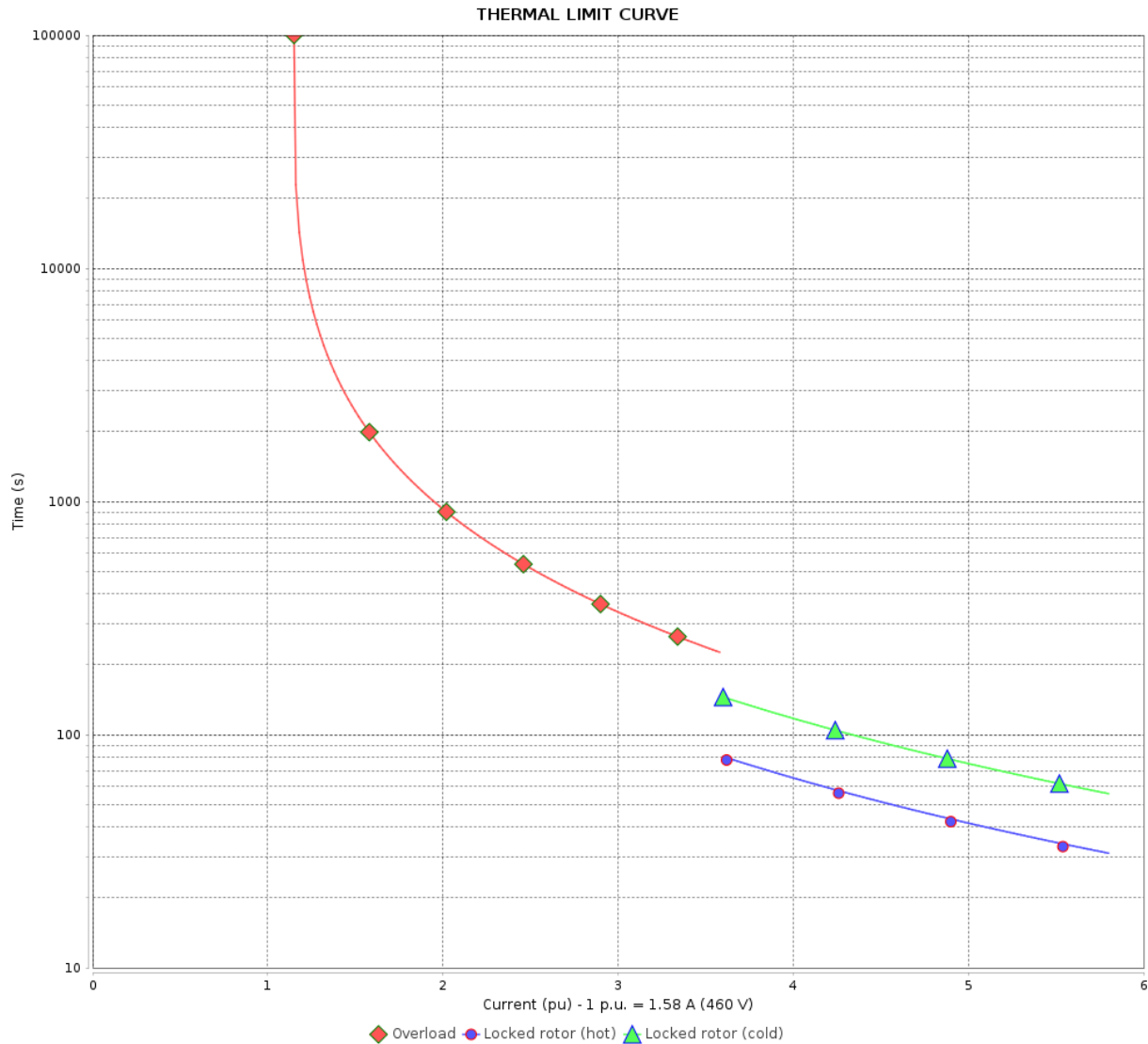
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Heating constant

Cooling constant

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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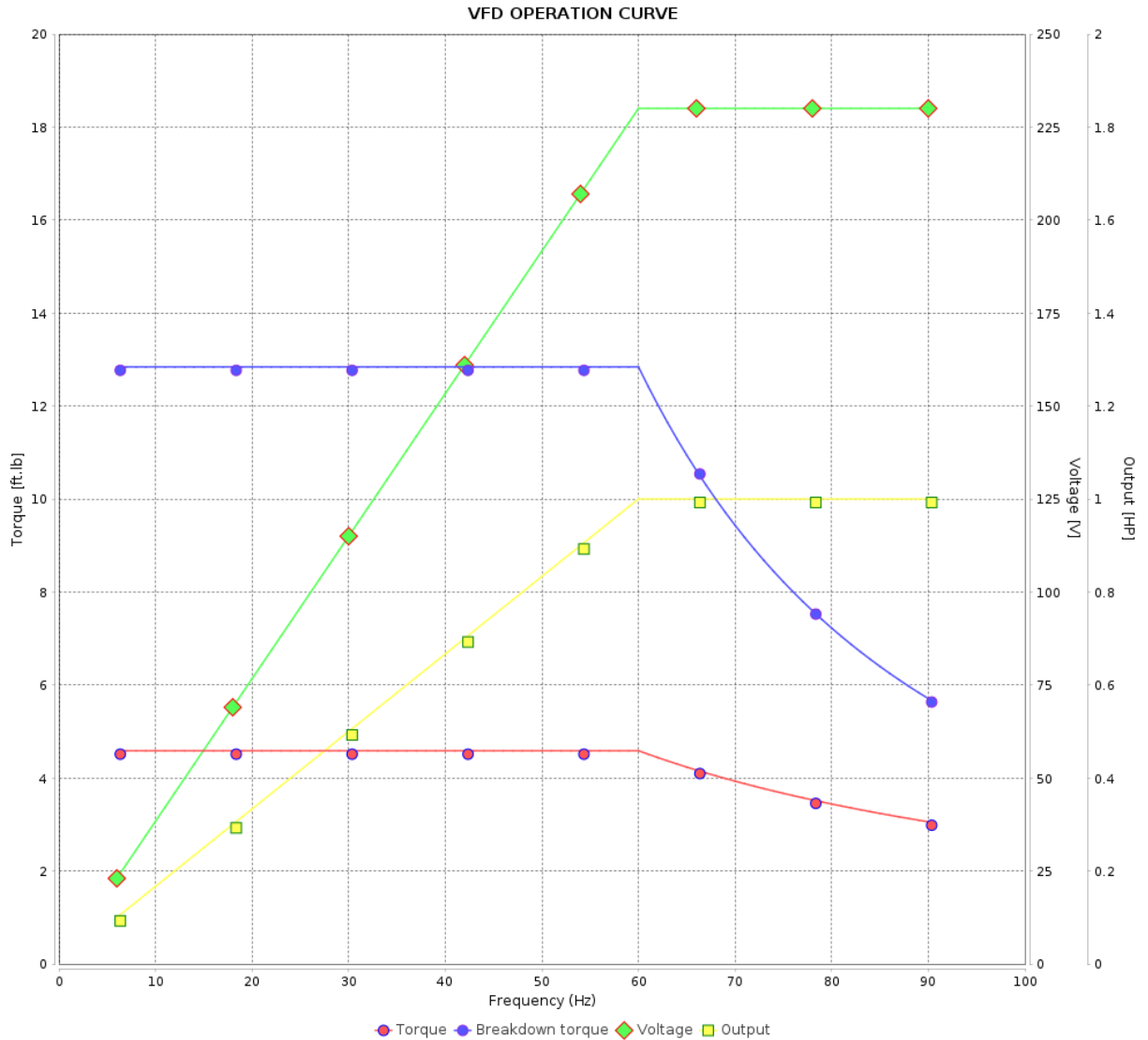
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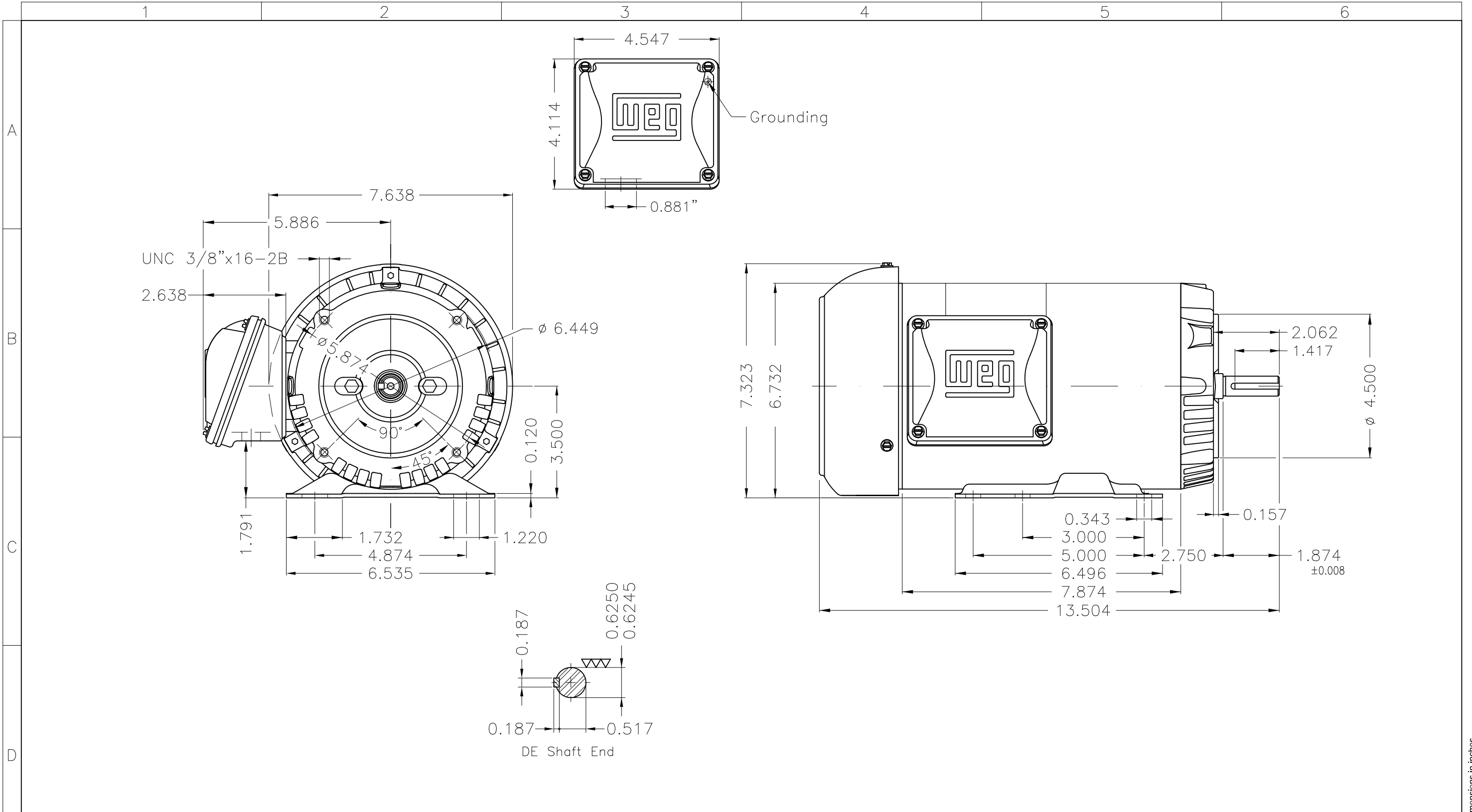


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Fan cover - steel plate										
Color Munsell N 1 matte black										
Painting plan 207N										
Mounting F-1/B34R(D)										
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.				PREVIEW		WDD		
CHECKED		FRAME 56HC IP55 TEFC				WDD		SHEET 1 / 1		
RELEASED										
REL DT.		WMO	Jaragua do Sul	Product Engineering						

1 HP 06 Poles 60 Hz

A REL DT. WMO Jaragua do Sul Product Engineering SHEET 1 / 1

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Dimensions in inches XME A3



NEMA
Premium



MADE IN MEXICO

MAT: 14797781 CC029A
W01.TE0IC0X0X
MODEL 00112ET3E56C-S

For 60Hz: Class I, Zone 2, IIC
Class I, Div.2, Gr. A,B,C,D - T3
Div 2 Inverter Duty (SF1.00)
CT 2:1/VT 1000:1

PH 3	Hz 60	HP 1.0
FR 56HC		KW 0.75
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l.		A 3.16/1.58
INS CL F AT 80K	IP55	SFA 3.63/1.82
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE J	PF 0.72
USABLE @ 208V 3.50A		RPM 1145
SF1.00		NEMA
		NOM. EFF 82.5%

ALTERNATE RATING: 1.0HP 50Hz 190-220/380-415V SF1.00
3.74-3.36/1.87-1.78A 915RPM EFF 77.3% (IE2) IEC 60034-1

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 5:1 CT

DE 6204-ZZ	ODE 6202-ZZ	MOBIL POLYREX EM
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T1-BLU T2-WHT
T3-ORG T4-YEL
T5-BLK T6-GRY
T7-PNK T8-RED
T9-BRK RED

INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION



WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.



AVERTISSEMENT: Le moteur doit être mis à la terre conformément aux codes électriques locaux et nationaux afin d'éviter tout choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine.

