

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer		: Automation Direct				
Product line		: Premium Efficiency Three-Phase			Product code : 14799195 Catalog # : 00236ET3E56C-S	
Frame		: 56HC			Locked rotor time : 23s (cold) 13s (hot)	
Output		: 2 HP (1.5 kW)			Temperature rise : 80 K	
Poles		: 2			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		: 4.94/2.47 A			Protection degree : IP55	
L. R. Amperes		: 48.9/24.5 A			Cooling method : IC411 - TEFC	
LRC		: 9.9x(Code L)			Mounting : F-1	
No load current		: 2.13/1.06 A			Rotation ¹ : Both (CW and CCW)	
Rated speed		: 3520 rpm			Noise level ² : 68.0 dB(A)	
Slip		: 2.22 %			Starting method : Direct On Line	
Rated torque		: 2.98 ft.lb			Approx. weight ³ : 40.4 lb	
Locked rotor torque		: 250 %				
Breakdown torque		: 300 %				
Insulation class		: F				
Service factor		: 1.15				
Moment of inertia (J)		: 0.1279 sq.ft.lb				
Design		: B				
Output		25%	50%	75%	100%	Foundation loads
Efficiency (%)		82.1	82.5	85.5	85.5	Max. traction : 101 lb
Power Factor		0.45	0.73	0.83	0.89	Max. compression : 141 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 5.46A SF 1.00 SFA 5.46A						
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.		
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	23/08/2022				1 / 5	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

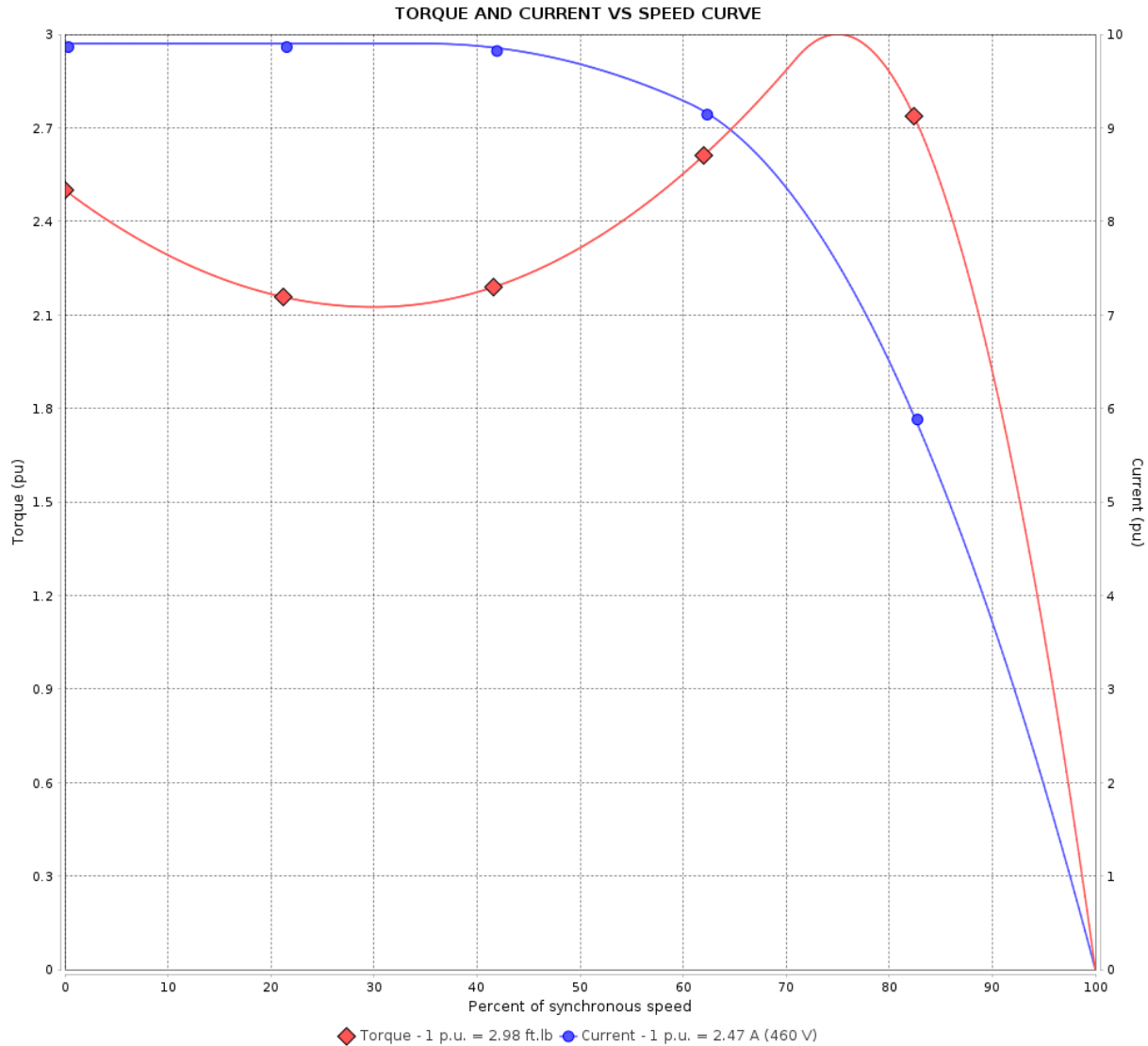
Product line : Premium Efficiency Three-Phase

Product code :

14799195

Catalog # :

00236ET3E56C-S



Performance : 230/460 V 60 Hz 2P

Rated current : 4.94/2.47 A
 LRC : 9.9
 Rated torque : 2.98 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.1279 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

Locked rotor time : 23s (cold) 13s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 5	Revision
Checked by				
Date	23/08/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

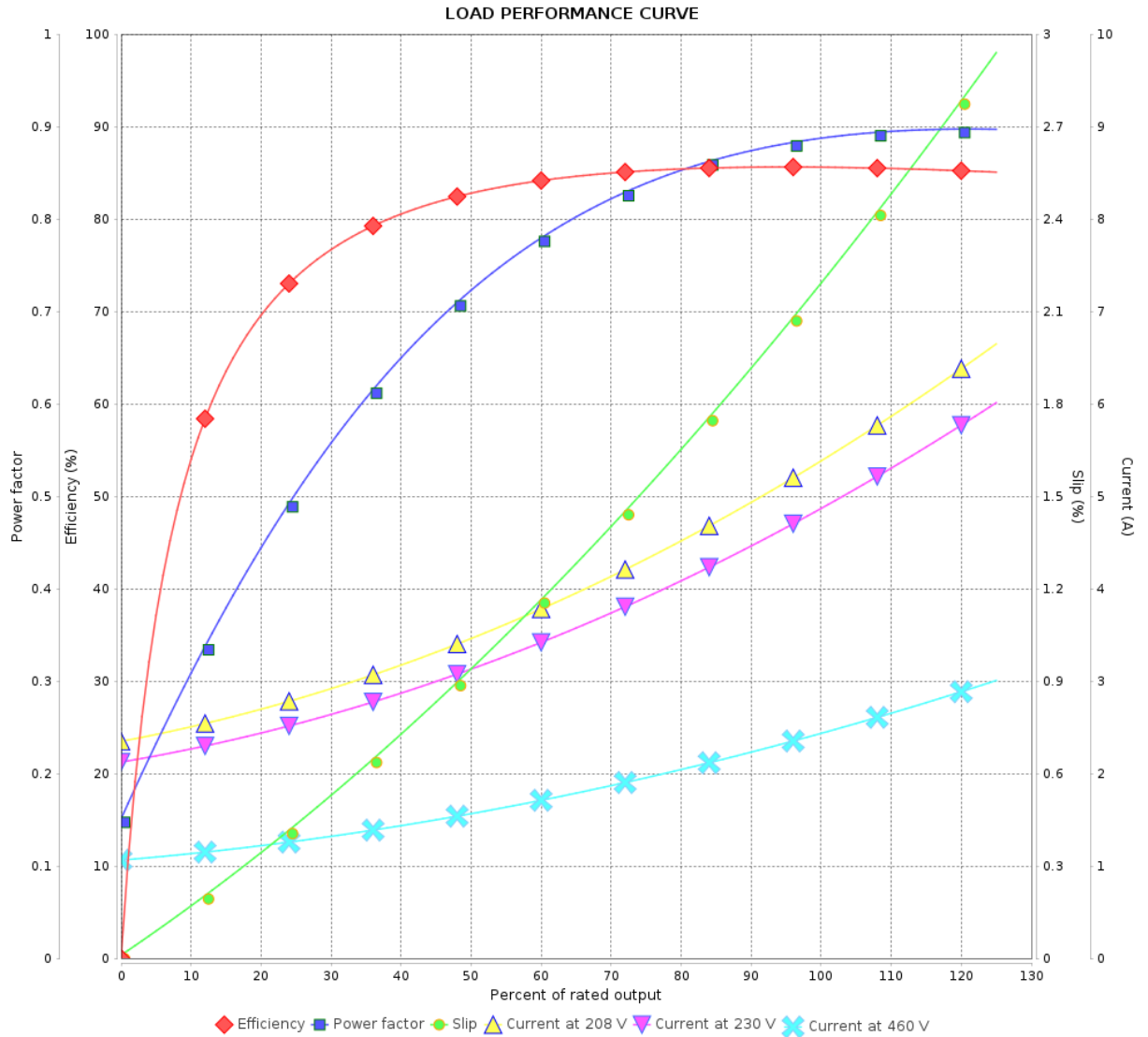


Customer : Automation Direct

Product line : Premium Efficiency Three-Phase

Product code :
Catalog # :

14799195
00236ET3E56C-S



Performance : 230/460 V 60 Hz 2P

Rated current : 4.94/2.47 A
 LRC : 9.9
 Rated torque : 2.98 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.1279 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

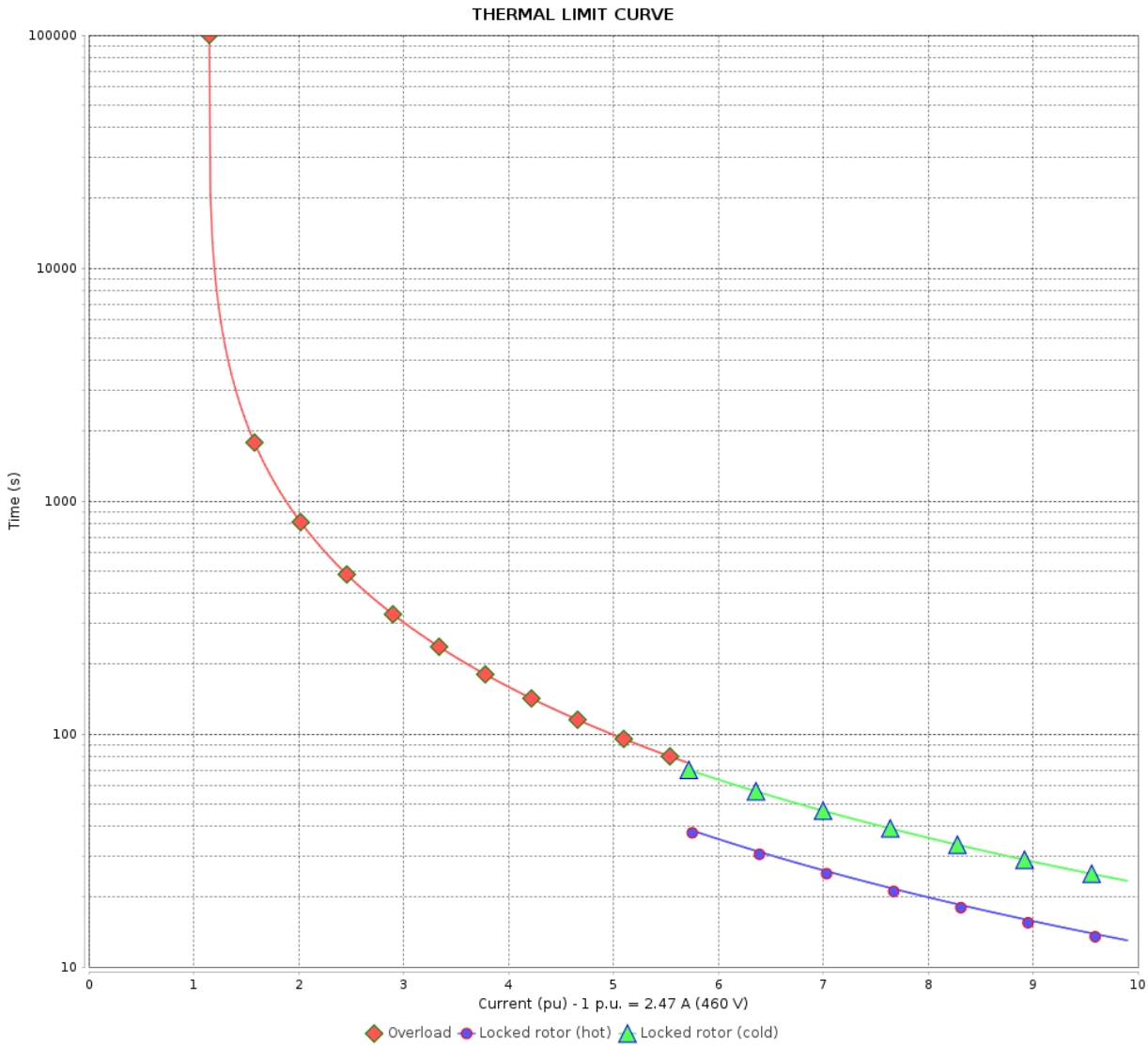
Product line : Premium Efficiency Three-Phase

Product code :

14799195

Catalog # :

00236ET3E56C-S



Performance : 230/460 V 60 Hz 2P

Rated current : 4.94/2.47 A
 LRC : 9.9
 Rated torque : 2.98 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.1279 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

Heating constant

Cooling constant

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

VFD OPERATION CURVE

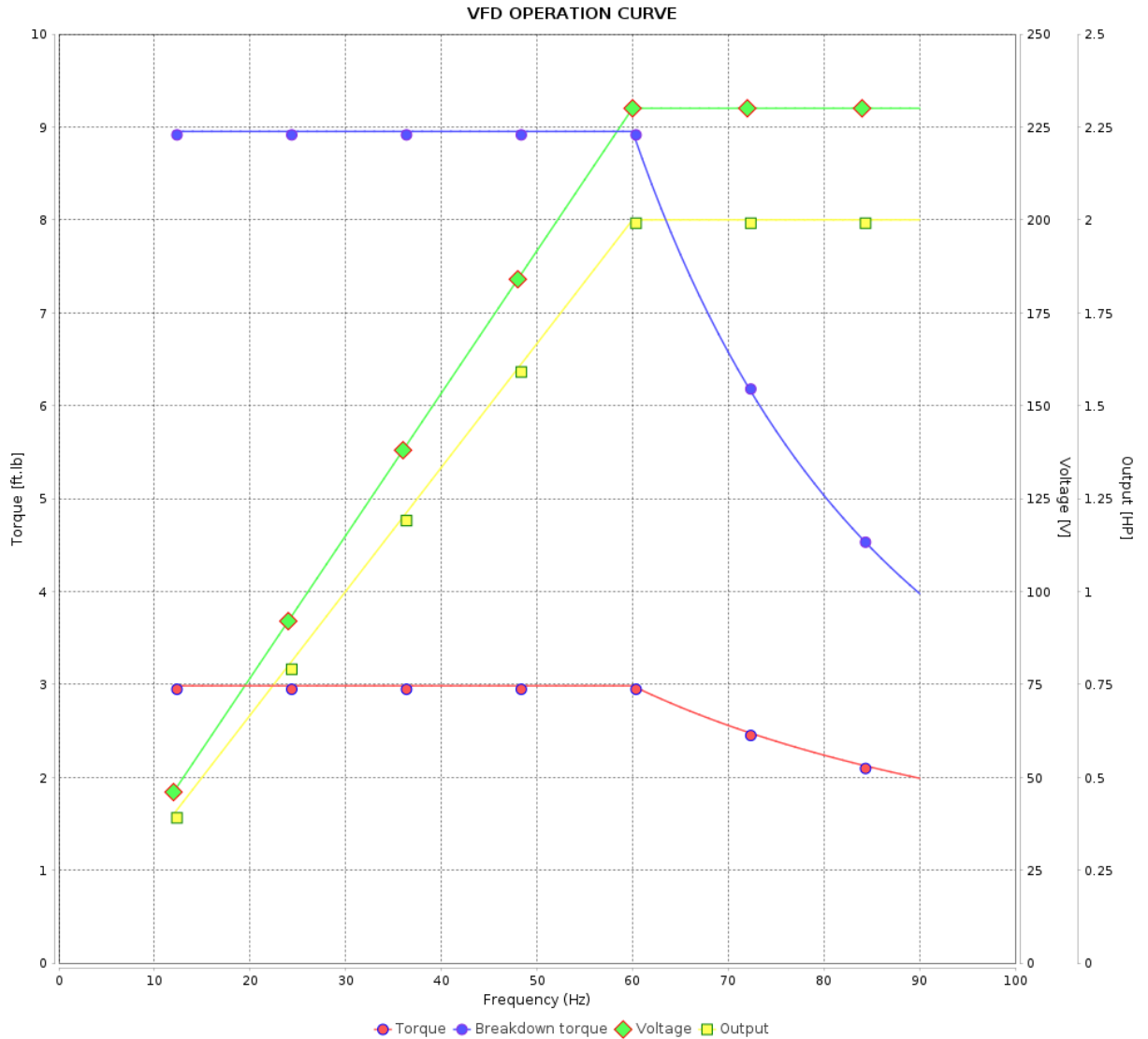
Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Premium Efficiency Three-Phase

Product code : 14799195
 Catalog # : 00236ET3E56C-S

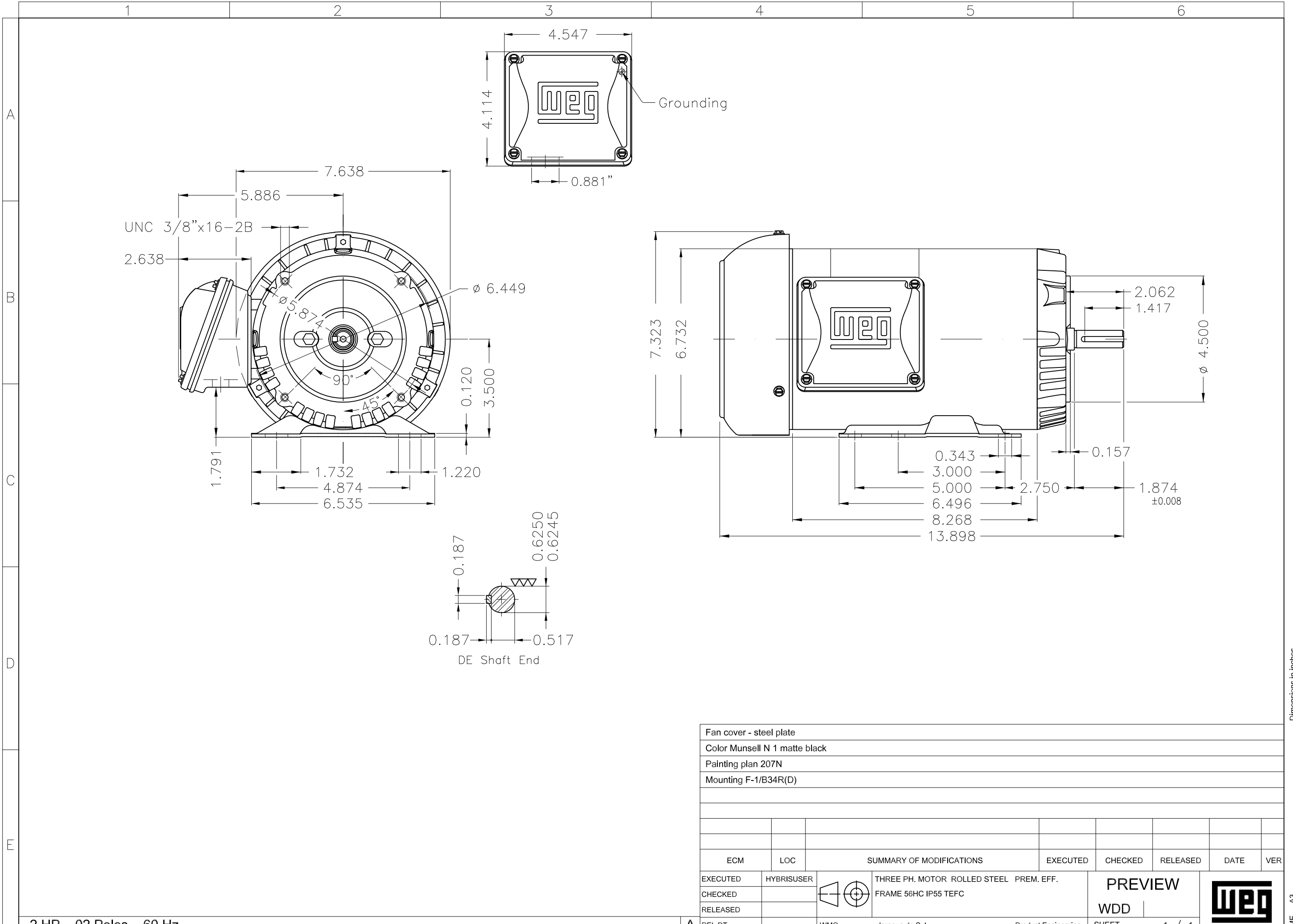


Performance : 230/460 V 60 Hz 2P

Rated current : 4.94/2.47 A
 LRC : 9.9
 Rated torque : 2.98 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.1279 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				



Dimensions in inches

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.					
CHECKED		FRAME 56HC IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	PREVIEW	WDD		
			SHEET		1 / 1		

2 HP 02 Poles 60 Hz



NEMA
Premium



MADE IN BRAZIL

MAT: 14799195 CC029A
W01.TE0IC0X0X
MODEL 00236ET3E56C-S
24AUG2022 B/N:

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 2.0
FR 56HC		KW 1.5
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l.		A 4.94/2.47
INS CL F AT 80K	IP55	SFA 5.68/2.84
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE L	PF 0.89
USABLE @ 208V 5.46A		RPM 3520
SF1.00		NEMA NOM. EFF 85.5%

ALTERNATE RATING: 2.0HP 50Hz 190-220/380-415V SF1.15
5.94-5.23/2.97-2.77A 2875RPM EFF 83.3% (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
------------	-------------	------------------



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.

