

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	: Automation Direct			
Product line	: Premium Efficiency Three-Phase		Product code :	14799098
			Catalog # :	00218ET3E56C-S
Frame	: 56HC		Locked rotor time	: 27s (cold) 15s (hot)
Output	: 2 HP (1.5 kW)		Temperature rise	: 80 K
Poles	: 4		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	: 5.44/2.72 A		Protection degree	: IP55
L. R. Amperes	: 44.6/22.3 A		Cooling method	: IC411 - TEFC
LRC	: 8.2x(Code K)		Mounting	: F-1
No load current	: 2.80/1.40 A		Rotation ¹	: Both (CW and CCW)
Rated speed	: 1745 rpm		Noise level ²	: 52.0 dB(A)
Slip	: 3.06 %		Starting method	: Direct On Line
Rated torque	: 6.02 ft.lb		Approx. weight ³	: 42.9 lb
Locked rotor torque	: 270 %			
Breakdown torque	: 300 %			
Insulation class	: F			
Service factor	: 1.15			
Moment of inertia (J)	: 0.1296 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	86.0	85.5	87.5	86.5
Power Factor	0.35	0.60	0.73	0.80
	Foundation loads			
			Max. traction	: 194 lb
			Max. compression	: 237 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 6.02A SF 1.00 SFA 6.02A				
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
Performed by			Page	Revision
Checked by				
Date	22/08/2022		1 / 5	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

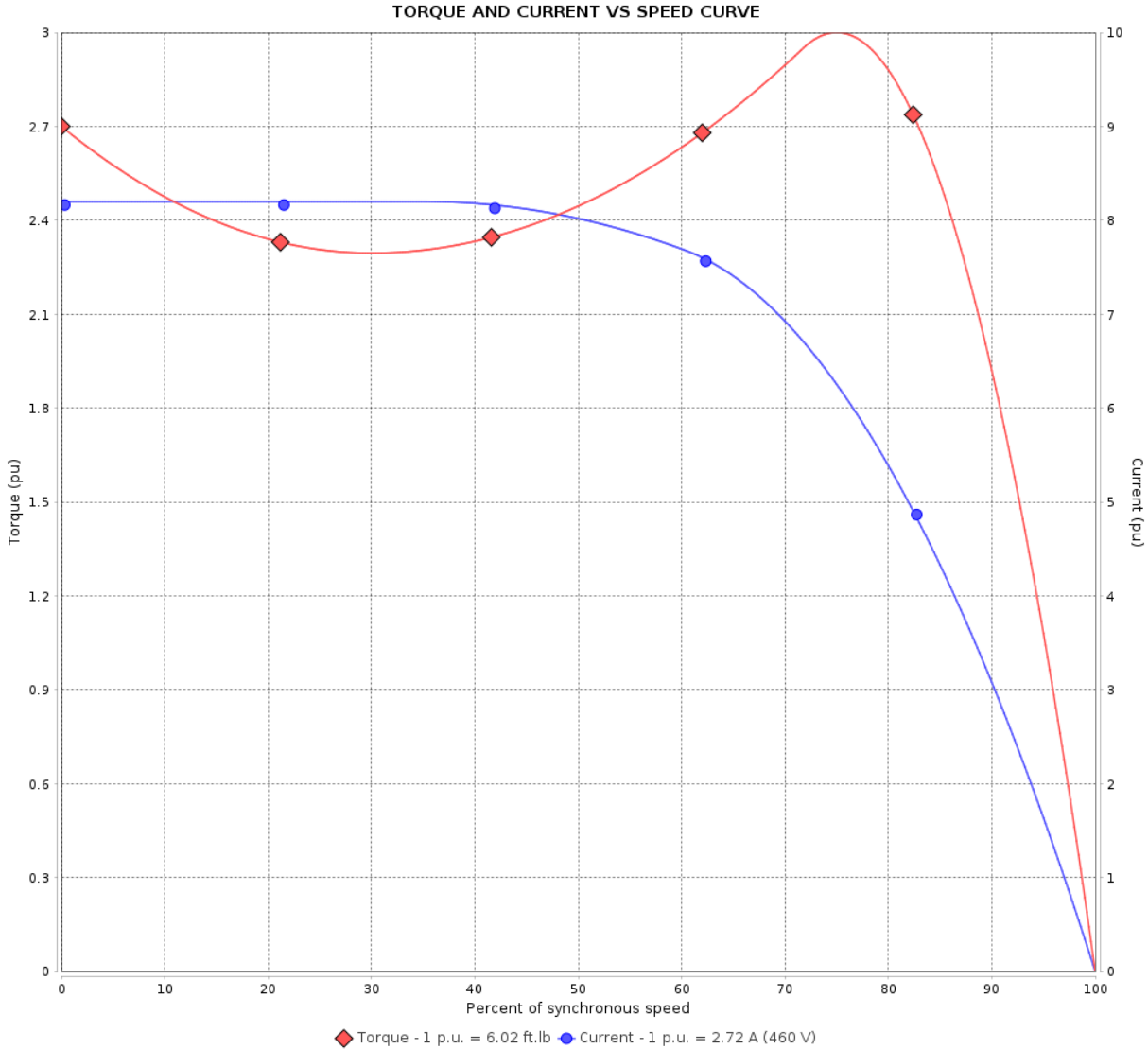
Product line : Premium Efficiency Three-Phase

Product code :

14799098

Catalog # :

00218ET3E56C-S



Performance : 230/460 V 60 Hz 4P

Rated current : 5.44/2.72 A
 LRC : 8.2
 Rated torque : 6.02 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.1296 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 5	Revision
Checked by				
Date	22/08/2022			

LOAD PERFORMANCE CURVE

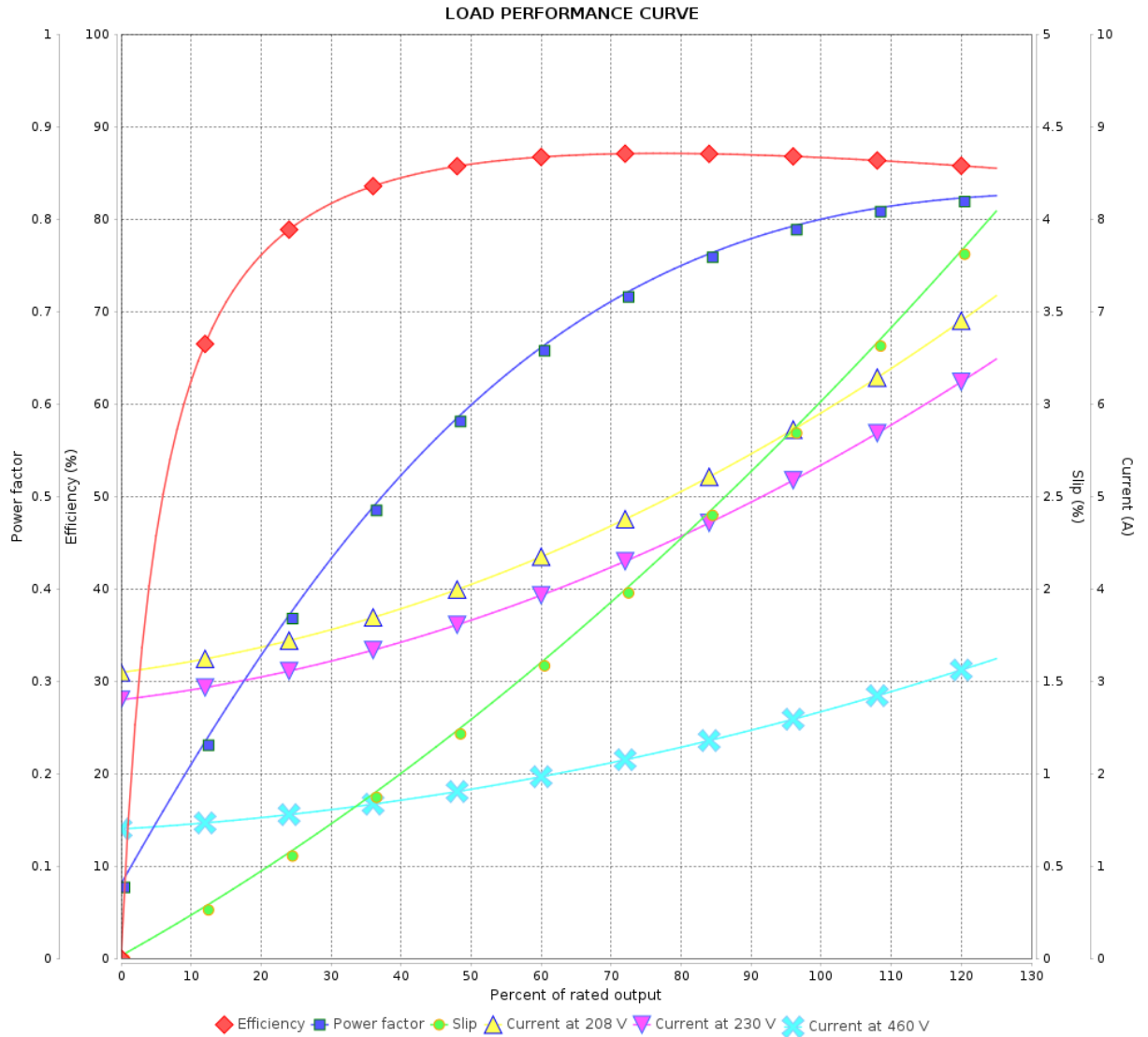
Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Premium Efficiency Three-Phase

Product code : 14799098
Catalog # : 00218ET3E56C-S



Performance : 230/460 V 60 Hz 4P

Rated current : 5.44/2.72 A
LRC : 8.2
Rated torque : 6.02 ft.lb
Locked rotor torque : 270 %
Breakdown torque : 300 %
Rated speed : 1745 rpm

Moment of inertia (J) : 0.1296 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

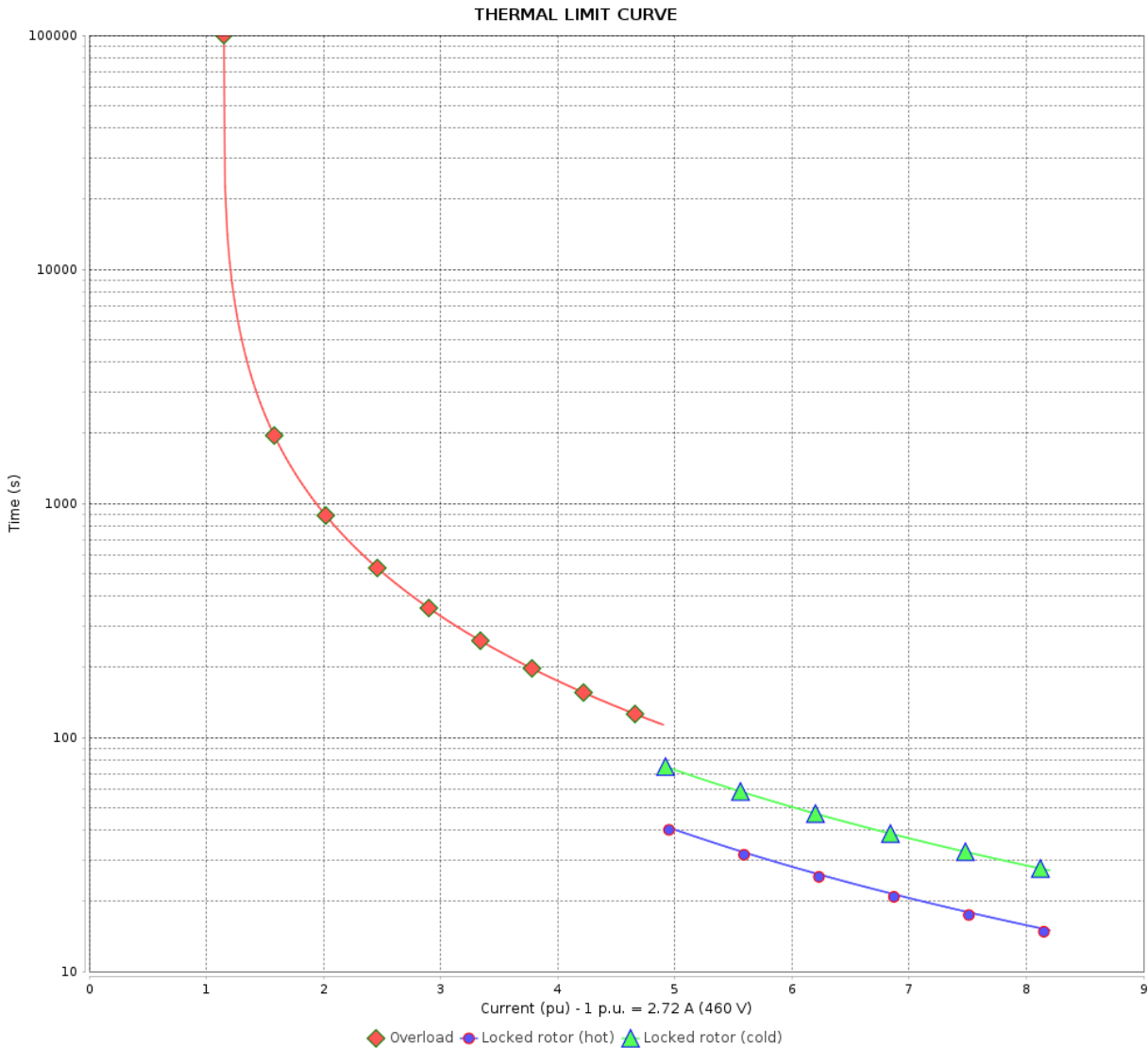
Product line : Premium Efficiency Three-Phase

Product code :

14799098

Catalog # :

00218ET3E56C-S



Performance : 230/460 V 60 Hz 4P

Rated current : 5.44/2.72 A
 LRC : 8.2
 Rated torque : 6.02 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.1296 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	22/08/2022	Page 4 / 5		Revision
Checked by				
Date				

VFD OPERATION CURVE

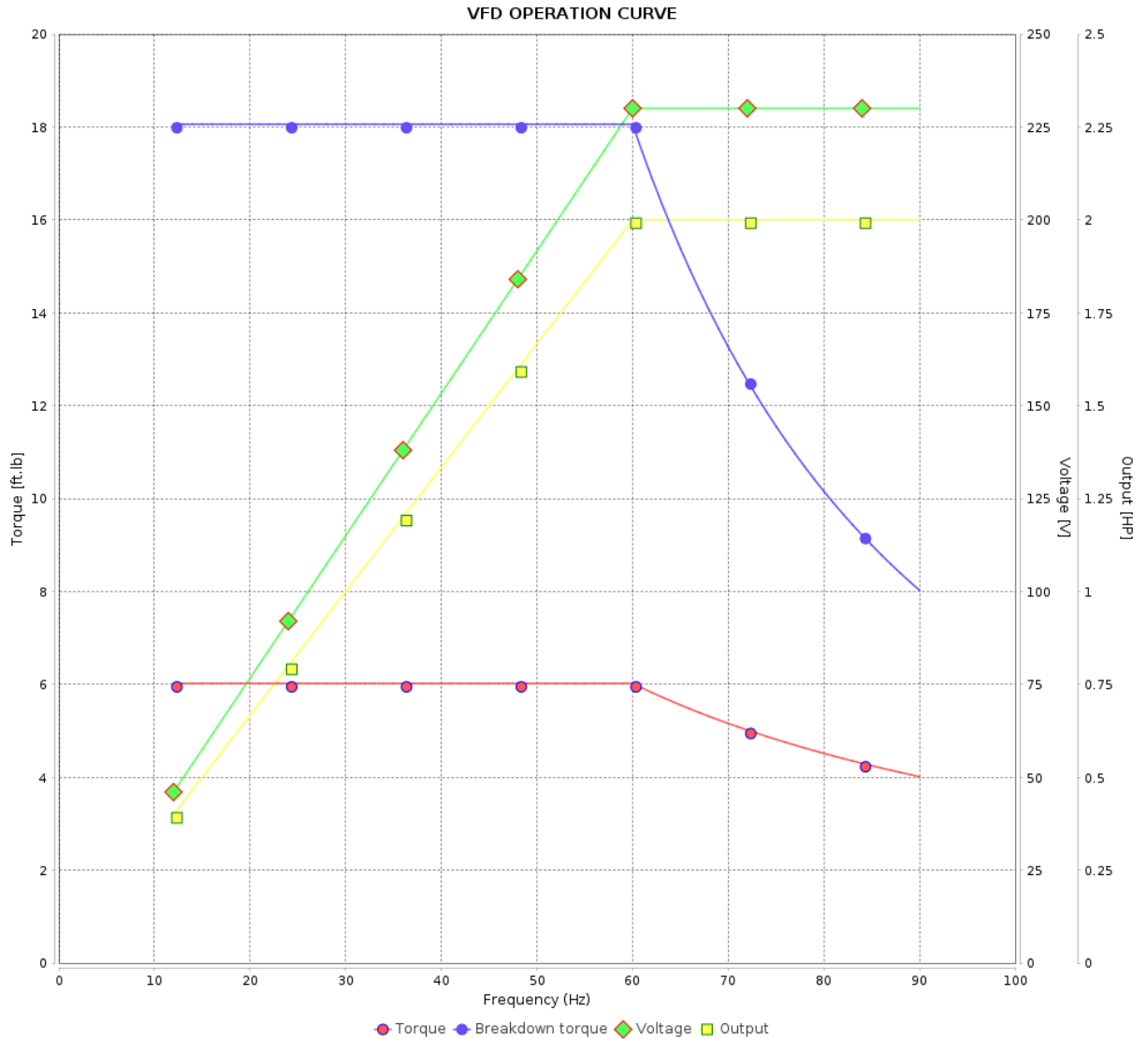
Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Premium Efficiency Three-Phase

Product code : 14799098
Catalog # : 00218ET3E56C-S

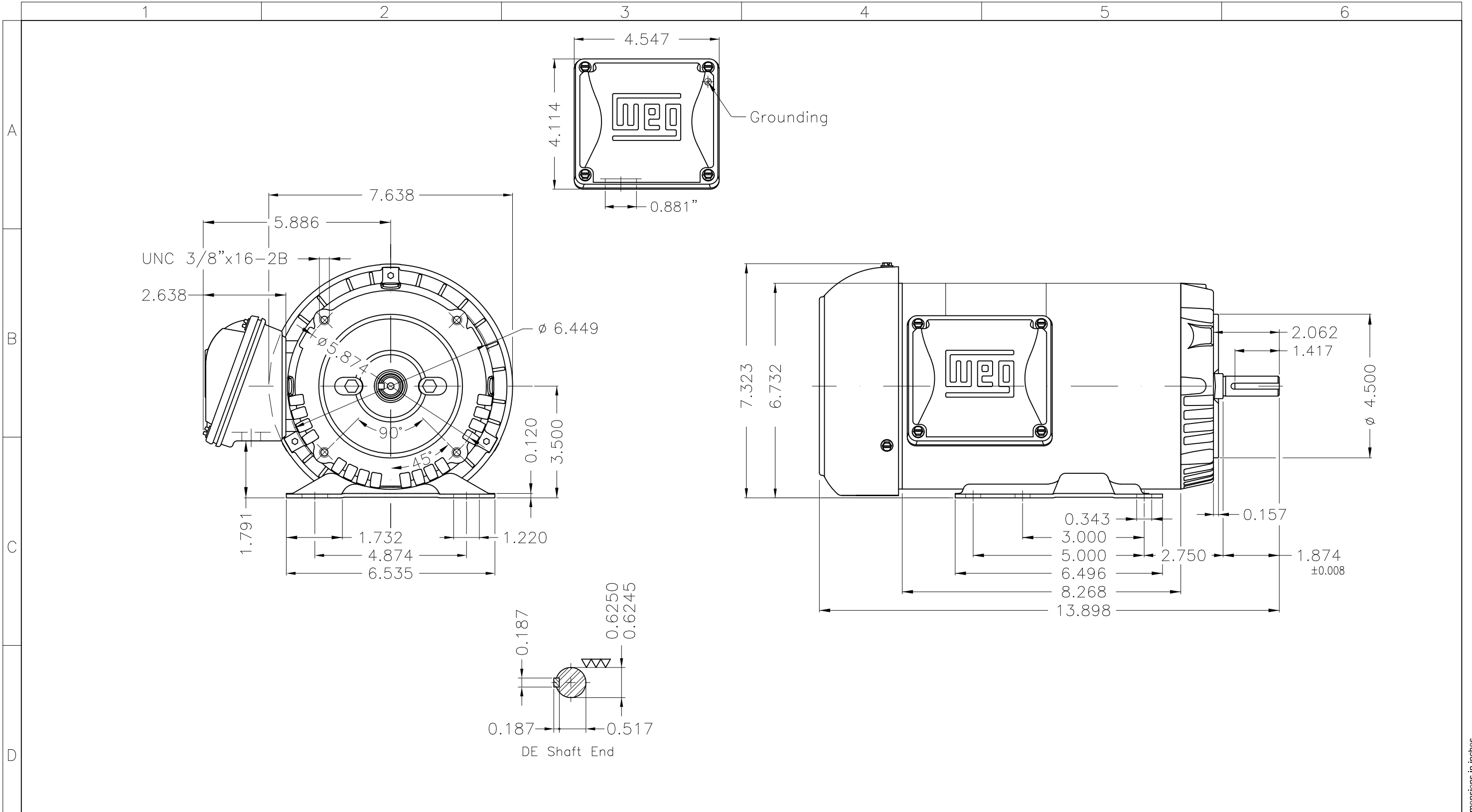


Performance : 230/460 V 60 Hz 4P

Rated current : 5.44/2.72 A
LRC : 8.2
Rated torque : 6.02 ft.lb
Locked rotor torque : 270 %
Breakdown torque : 300 %
Rated speed : 1745 rpm

Moment of inertia (J) : 0.1296 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				



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

2 HP 04 Poles 60 Hz

WEG's property. Forbidden reproduction without previous authorization.

Dimensions in inches XME A3



NEMA
Premium



MADE IN BRAZIL

MAT: 14799098 CC029A
W01.TE0IC0X0X
MODEL 00218ET3E56C-S
15AUG2022 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 5.44/2.72
INS CL F AT 80K	IP55	SFA 6.26/3.13
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE K	PF 0.80
USABLE @ 208V 6.02A		RPM 1745
SF1.00		NEMA NOM. EFF 86.5%

ALTERNATE RATING: 2.0HP 50Hz 190-220/380-415V SF1.15
6.50-5.79/3.25-3.07A 1415RPM EFF 82.6% (IE1) 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.

