

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer	: Automation Direct			
Product line	: Single-Phase		Product code :	13817197
			Catalog # :	00218ES1B145TC-S
Frame	: 143/5TC		Locked rotor time	: 10s (cold) 6s (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	: 115/208-230 V		Altitude	: 1000 m.a.s.l.
Rated current	: 20.0/11.1-10.0 A		Protection degree	: IP55
L. R. Amperes	: 160/88.8-80.0 A		Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code L)		Mounting	: F-1
No load current	: 12.2/5.26-6.10 A		Rotation ¹	: Both (CW and CCW)
Rated speed	: 1745 rpm		Noise level ²	: 54.0 dB(A)
Slip	: 3.06 %		Starting method	: Direct On Line
Rated torque	: 6.02 ft.lb		Approx. weight ³	: 53.6 lb
Locked rotor torque	: 260 %			
Breakdown torque	: 260 %			
Insulation class	: F			
Service factor	: 1.15			
Moment of inertia (J)	: 0.1614 sq.ft.lb			
Design	: L			
Output	25%	50%	75%	100%
Efficiency (%)	67.6	70.0	76.0	78.5
Power Factor	0.38	0.66	0.76	0.82
	Foundation loads			
			Max. traction	: 109 lb
			Max. compression	: 163 lb
		<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	:	6205 ZZ	6203 ZZ	
Sealing	:	V'Ring	Without Bearing Seal	
Lubrication interval	:	-	-	
Lubricant amount	:	-	-	
Lubricant type	:	Mobil Polyrex EM		
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). (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				
Checked by			Page	Revision
Date	22/08/2022		1 / 2	

LOAD PERFORMANCE CURVE

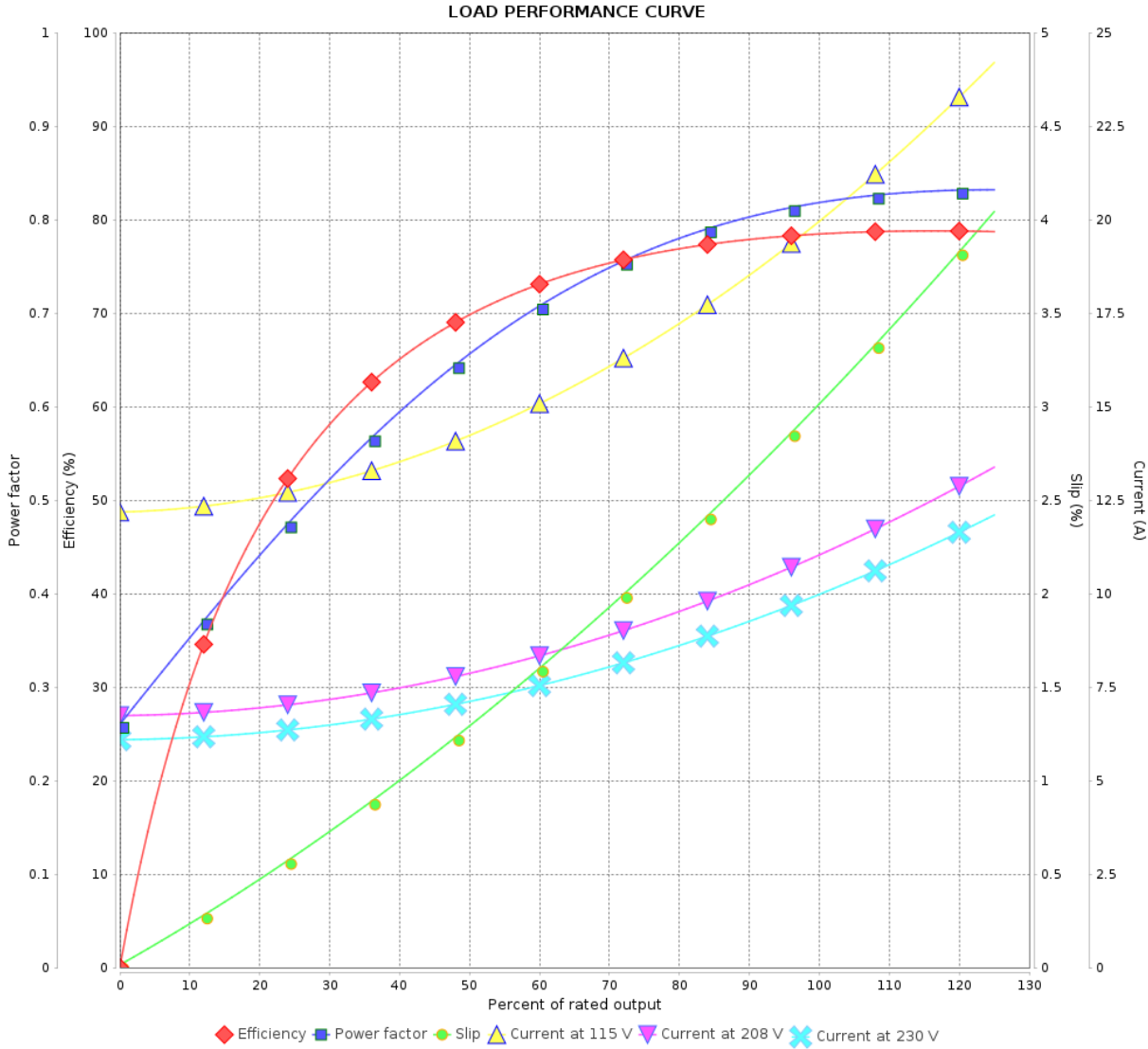
Single Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Single-Phase

Product code : 13817197
Catalog # : 00218ES1B145TC-S



Performance : 115/208-230 V 60 Hz 4P

Rated current	: 20.0/11.1-10.0 A	Moment of inertia (J)	: 0.1614 sq.ft.lb
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 6.02 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	:
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1745 rpm	Design	: L

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

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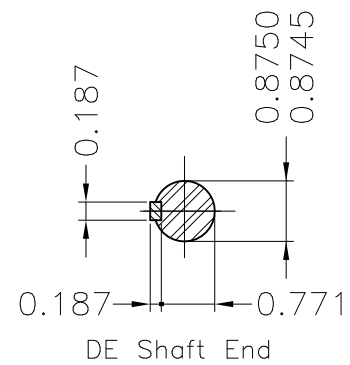
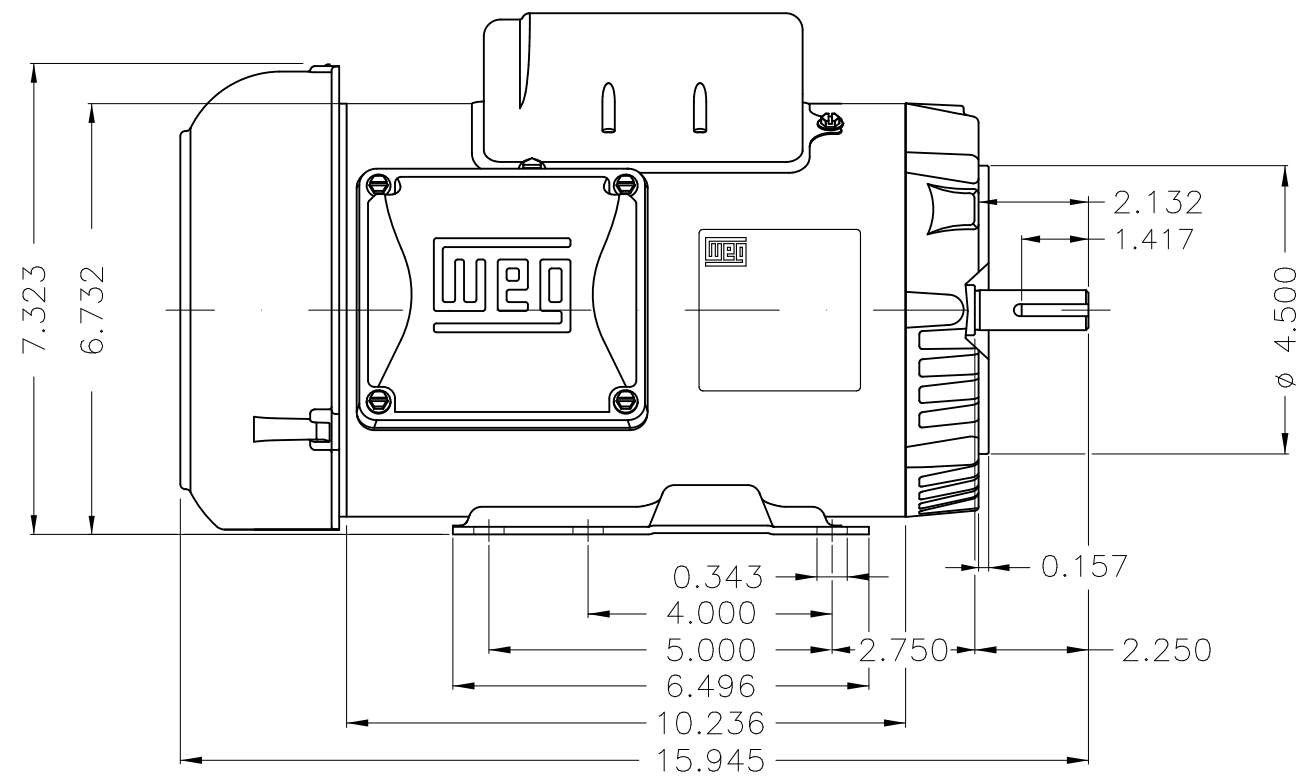
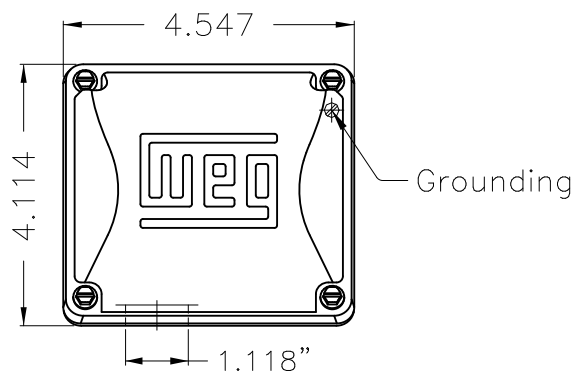
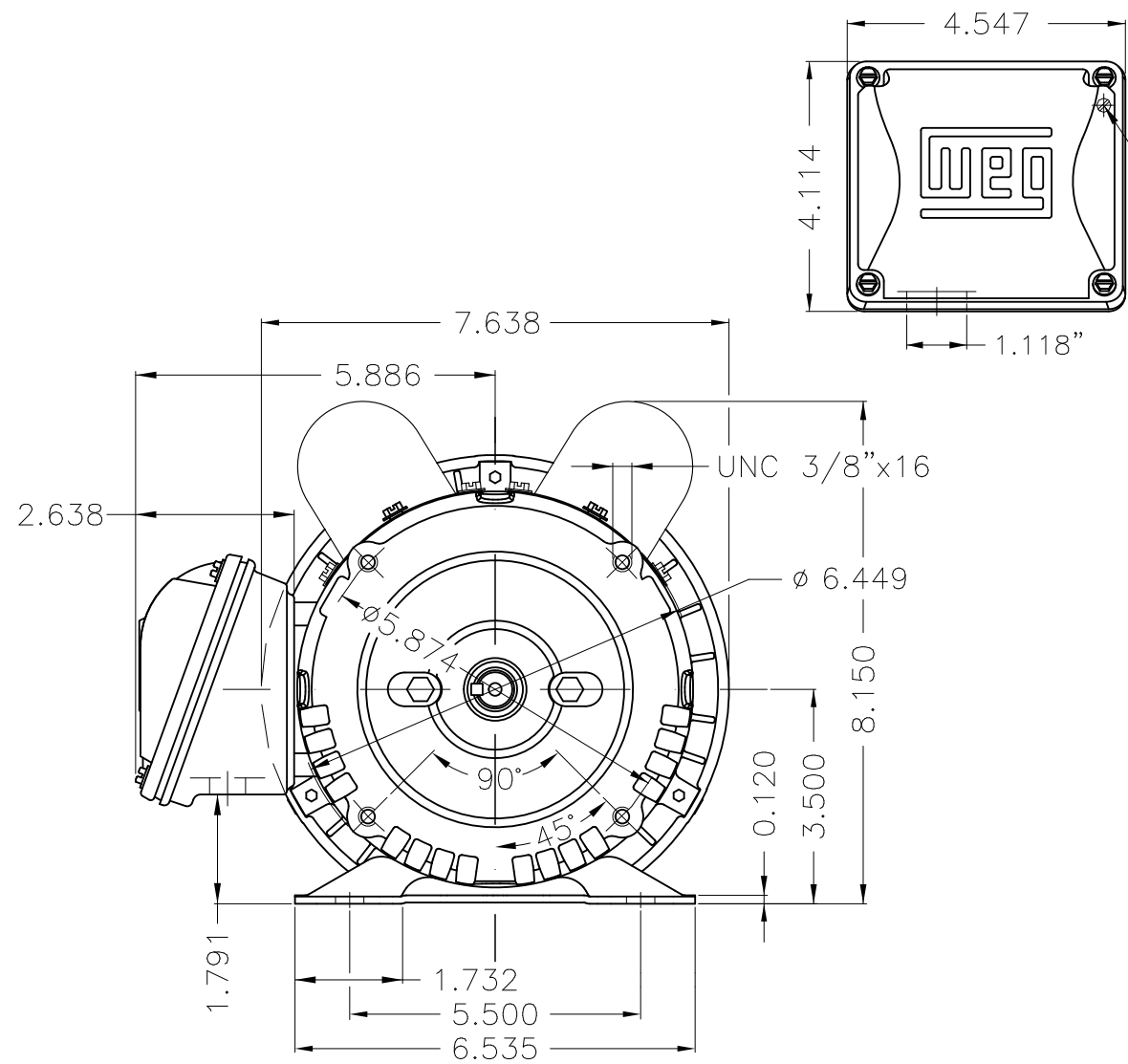
A

B

C

D

E



Mounting F-1/B34R(D)						
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR ROLLED STEEL				
CHECKED		FRAME 143/5TC IP55 TEFC				
RELEASED						
REL DT.		WMO	Jaragua do Sul	Product Engineering	SHEET 1 / 1	

2 HP 04 Poles 60 Hz

A

PREVIEW
WDD





MADE IN BRAZIL

MAT: 13817197

W01.ME01C0X0X

MODEL 00218ES1B145TC-S

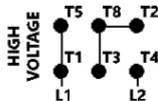
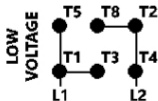
23AUG2022 B/N:

PH 1	Hz 60	HP 2.0
FR 143/5TC		KW 1.5
DUTY CONT.		V 115/208-230
ALT 1000 m.a.s.l		A 20.0/11.1-10.0
INS CL F ΔT 80K	IP55	SFA -
AMB 40°C	DES L	SF 1.15
ENCL TEFC	CODE L	PF 0.82
USABLE @ 208V SF1.00		RPM 1745
		NEMA NOM. EFF 78.5%

Electric Motor

DE 8205-ZZ	ODE 8203-ZZ	MOBIL POLYREX EM	
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REVERSE ROTATION INVERT T5 BY T8



- T1-BLU
- T2-WHT
- T3-ORG
- T4-YEL
- T5-BLK
- T8-RED



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.

