

PRODUCT INFORMATION PACKET



Model No: 811619.00
Catalog No: 811619.00
Speed Ratio Motor, 3 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 182TC Frame, TENV



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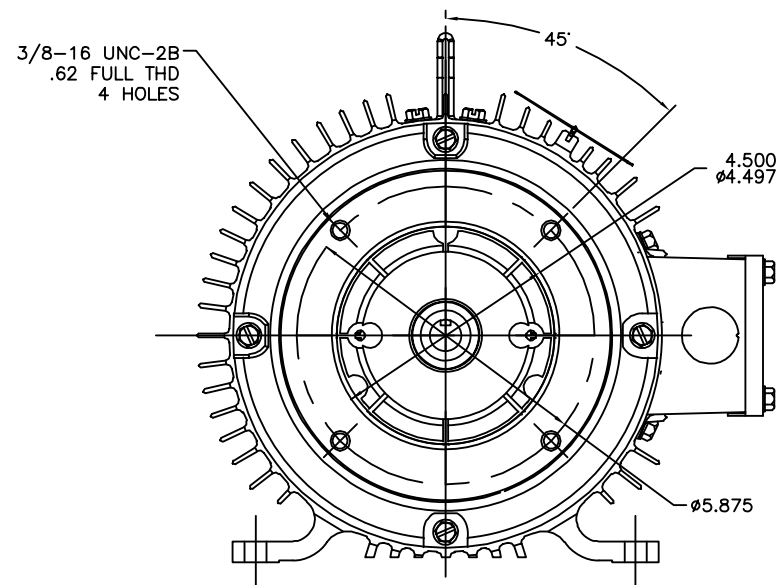
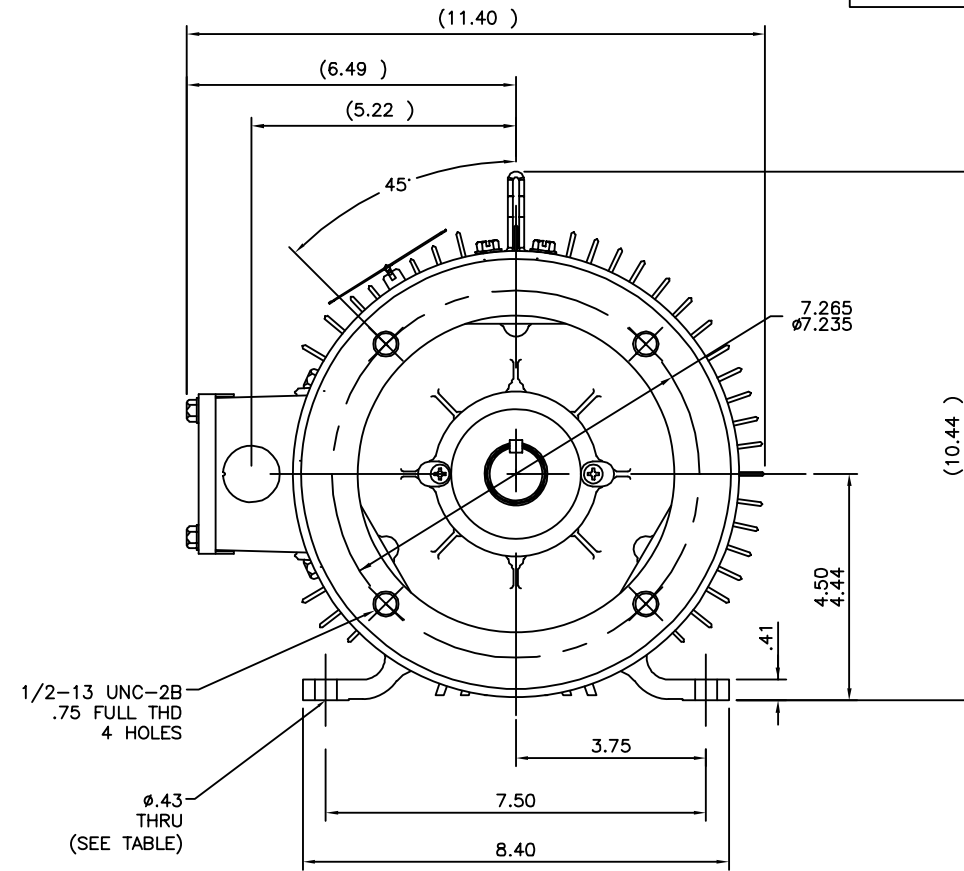
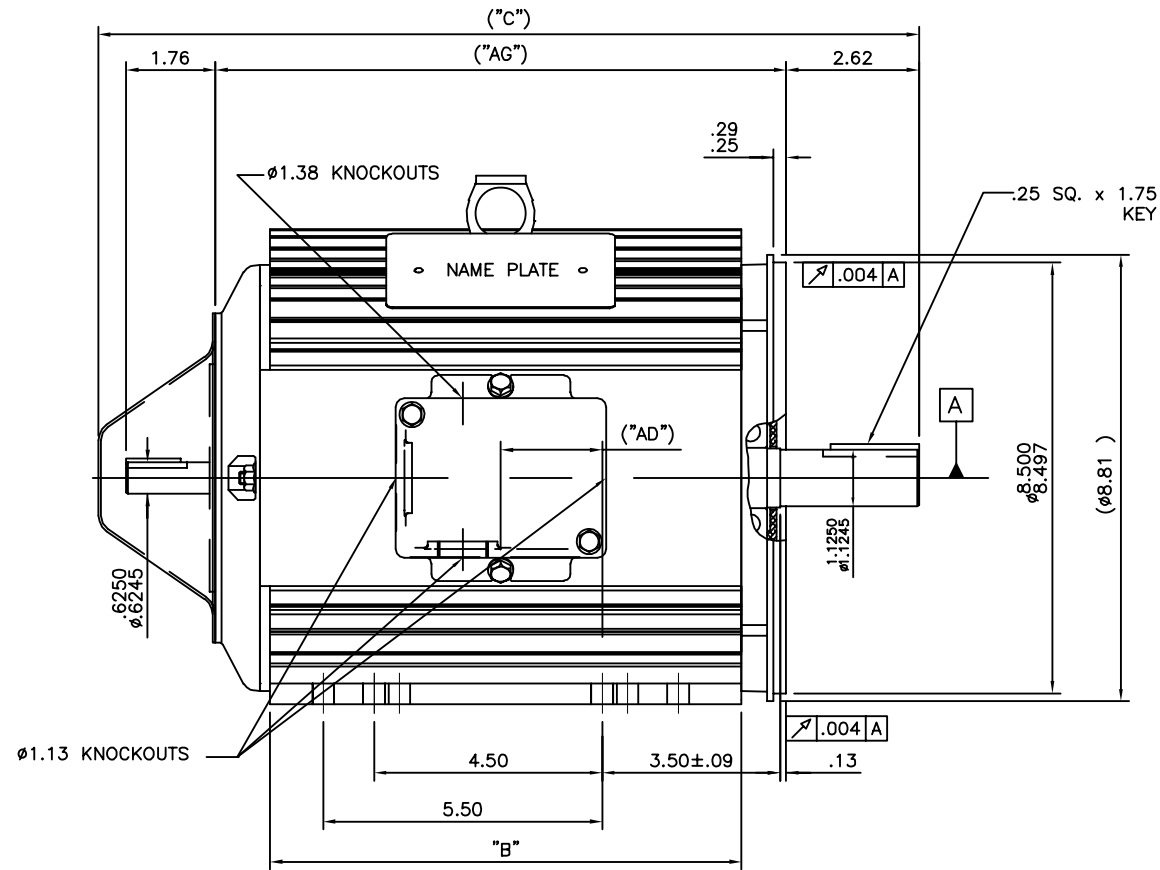
Nameplate Specifications

Phase	3	Output HP	3 Hp
Output KW	2.2 kW	Voltage	230/460 V
Speed	1755 rpm	Service Factor	1
Frame	182TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No Protection	Efficiency	87.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	8.2/4.1 A	Power Factor	78.5
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	N
Drive End Bearing Size	6207	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	16.19 in
Frame Length	9.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 1000:1		
Connection Drawing	005010.20	Outline Drawing	036119-950

036119ME



LEAD END BRACKET DETAIL
(COVER REMOVED)

950	16.19	2.00	9.3	11.26	12
DASH NO	"C"	"AD"	"B"	"AG"	FOOT HOLES

		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN	
DEC.	INCHES	CHK	ANG	TITLE	MAT'L.	PVR 02/03/15	
.X	±.1			182/184T-RIGID-TENV-C FACE OUTLINE		CHK ST 02/03/15	
.XX	±.03					APPD	
.XXX	±.005					SCALE 3=8	
.XXXX	±.0005					REF 035977ME	
						FMF	
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	PREV	
			RFP		CAD FILE 036119ME	SIZE B	
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1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.20
OUTLINE: 036119-950
WINDING: T84180

CAT #: 811619.00

NONE 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
3	2.2	1800	1755	182TC	TENV	TTL	N	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	8.2/4.1	INVERTER ONLY	CONT	F	1.15	40	3300

F.L. EFF	87.5	3/4 LD EFF	84.0	1/2 LD EFF	82.5	GTD EFF	ELECT. TYPE
F.L. PF	78.5	3/4 LD PF	73.0	1/2 LD PF	61.0	87.5	SQ CAGE INV DUTY

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
9.0 LB-FT	46.0	34.0 LB-FT 378%	49.3 LB-FT 548%	75

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
62 dBA	71 dBA		0.42 LB-FT²	0 LB-FT²	0 SEC.	0	110 LB.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE OR ENCODER	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTS AVER

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ALUMINUM
BALL	BALL						
6207	6206						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
1.578	1.802	2.838	2.091	94.13	0.080	ODE

* N O T E S *	INVERTER TORQUE: CONSTANT 1000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED	
	ENCODER: NONE NONE NONE	
	BRAKE: NONE NONE	
	NONE PPR	
	NONE	

DATE:	9/10/2018	BRAKE: NONE NONE	NONE
		FT-LB: NA	
		VOLTAGE: NONE	HZ:
UL: Y-(LEESON UL REC)			

Data Sheet

Date: 9/10/2018

811619.00



Data @ **460 V**

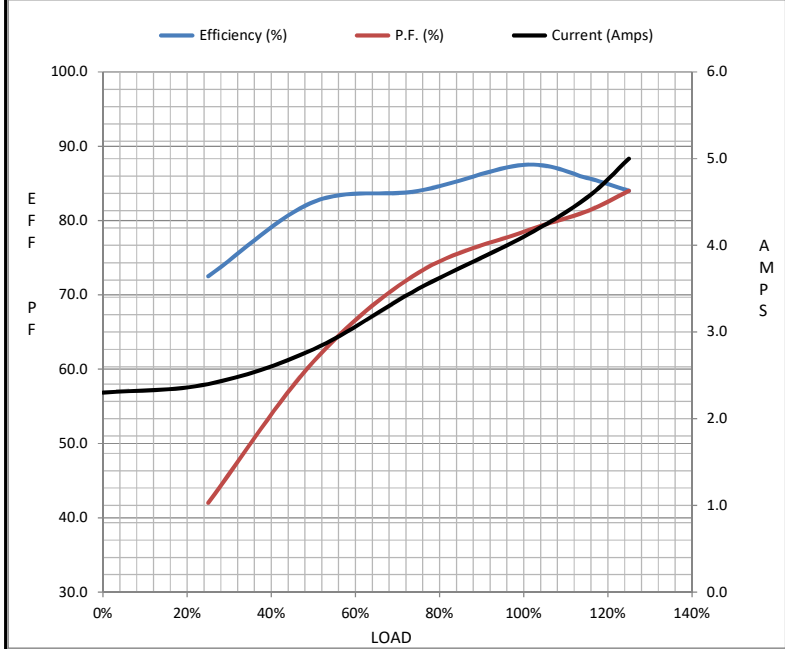
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	2.30	2.40	2.80	3.5	4.1	4.6	5.0	46.0
Torque (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.2	11.3	34.0
RPM	1800	1790	1780	1765	1755	1,751	1745	0
Efficiency (%)		72.5	82.5	84.0	87.5	85.8	84.0	
P.F. (%)	10.5	42.0	61.0	73.0	78.5	81.3	84.0	60.5

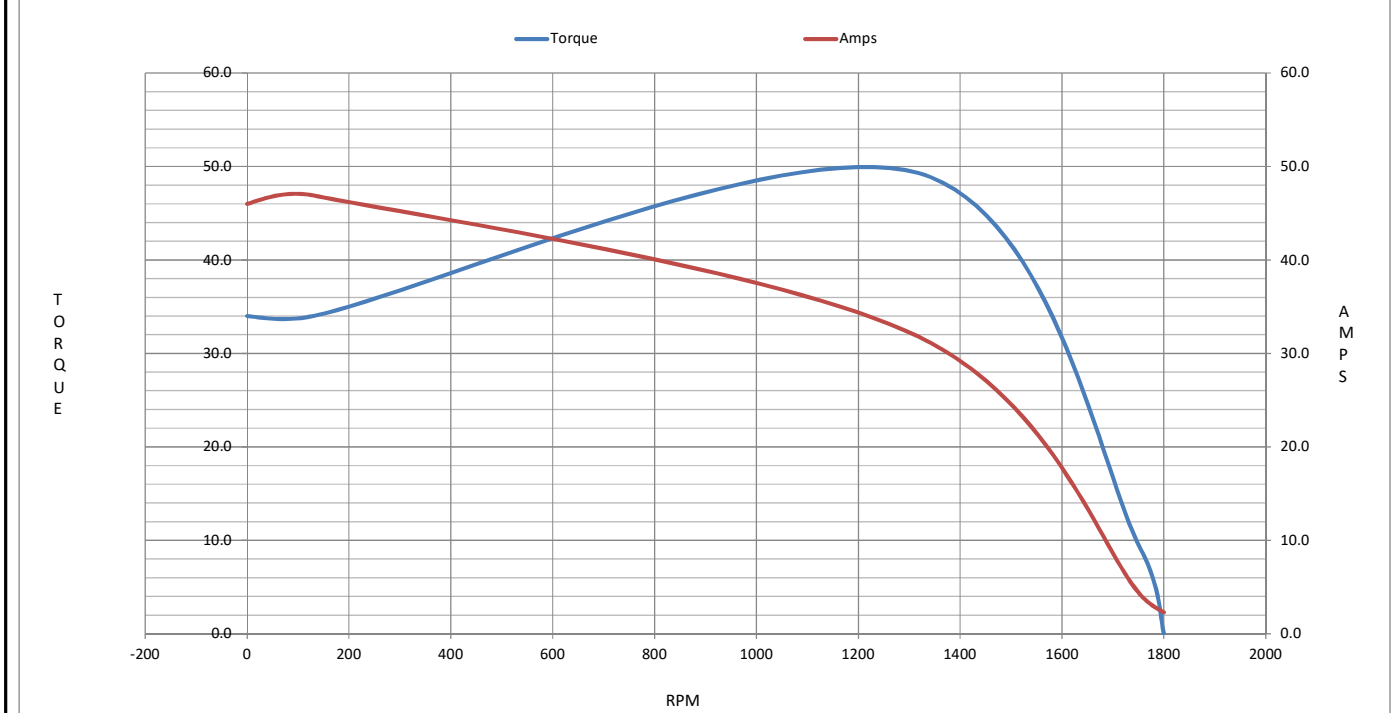
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	130	1318	1755	1800
Current (Amps)	46.0	46.9	31.8	4.1	2.30
Torque (ft-lb)	34.0	34.0	49.3	9.0	0.00

Information Block				
HP	3.0			
Sync. RPM	1800			
Frame	182			
Enclosure	TENV			
Construction	TTL			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	N			
Service Factor	1.15			
Temp Rise @ FL	75 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.42 Lb-Ft ²			
Ref Wdg	T84180 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 1000:1			
Outline Dwg	036119-950			
Conn. Diag	005010.20			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.5780	1.8020	2.8380	2.0910	94.1300



Speed - Torque Curve



EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 811619.00

(Model No. may contain prefix and/or suffix characters)

Catalog No : 811619.00

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22