PRODUCT INFORMATION PACKET

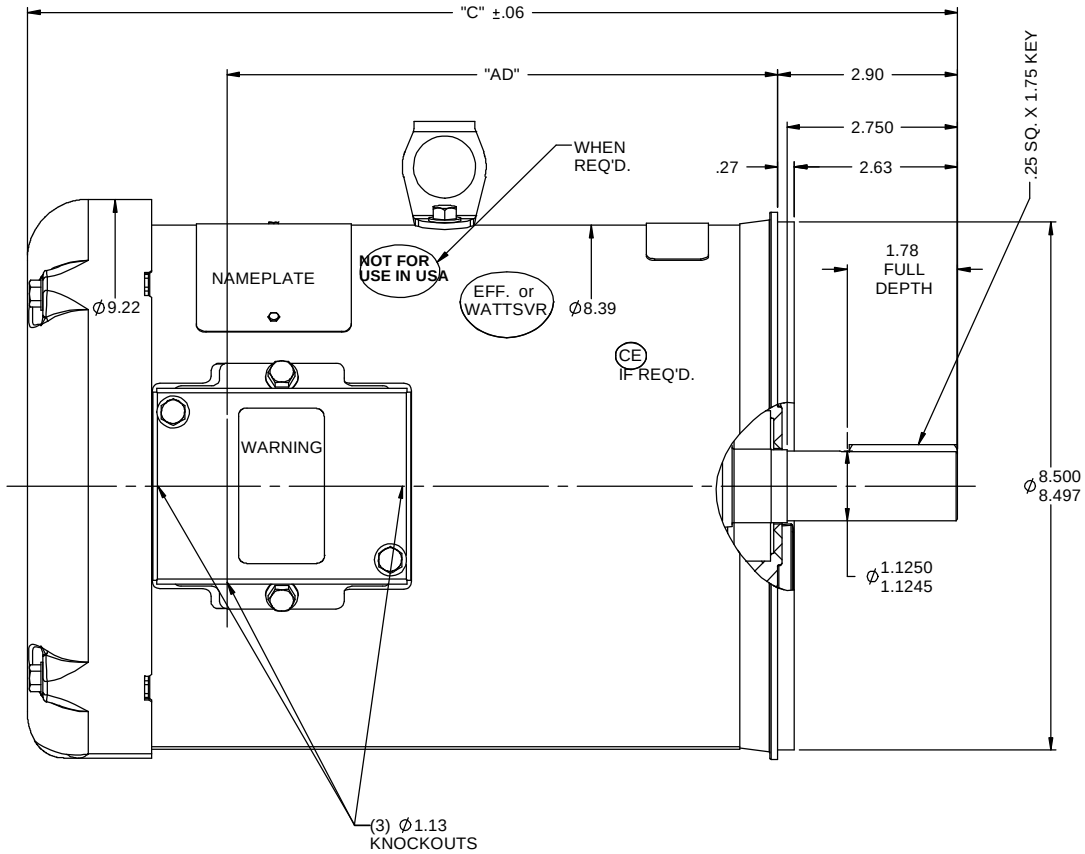
Model No: 131506.00
Catalog No: 131506.00
Special Voltage Motor, 3 HP, 3 Ph, 50 Hz, 220/380/440 V, 1500 & 1500 RPM, 182TC Frame, TEFC

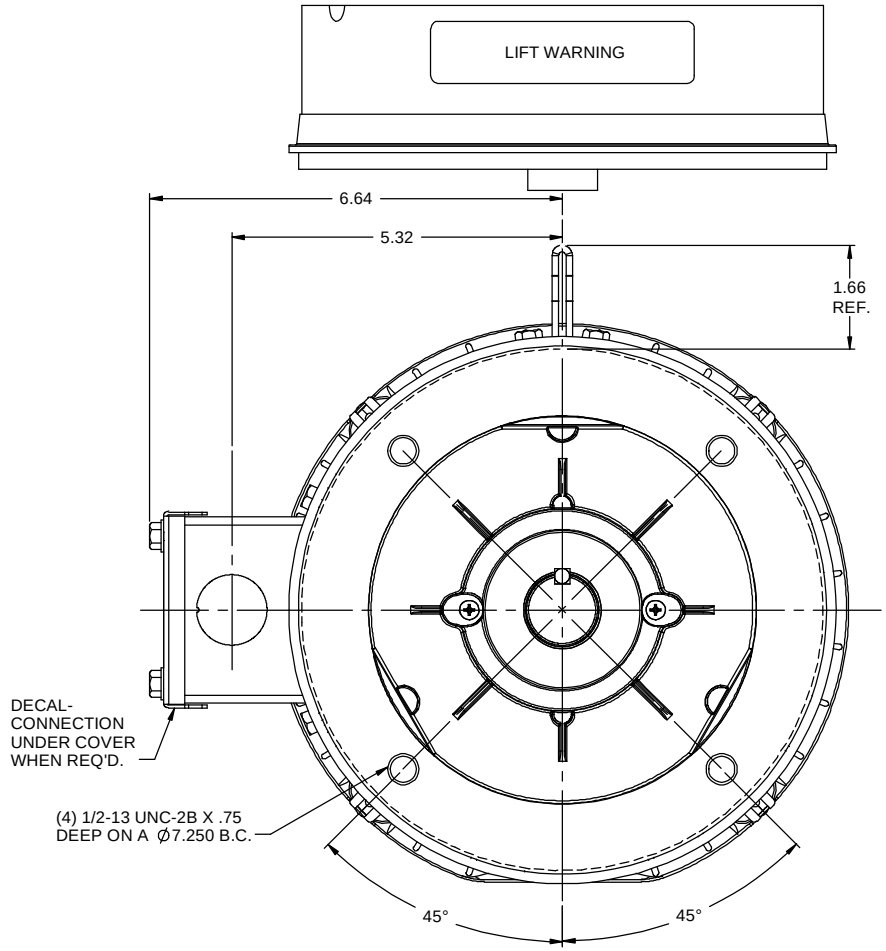
Nameplate Specifications

Phase	3	Output HP	3 Hp
Output KW	2.2 kW	Voltage	220/380/440 V
Speed	1425 r/min	Service Factor	1.15
Frame	182TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	82.5 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	8.2/4.7/4.1 A	Power Factor	80.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	54
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	1.5 O	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	13.97 in
Frame Length	8.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	035518-850	Connection Drawing	005381.01





DASH NO.	"C"	"AD"
750	12.97	6.88
800	13.47	7.38
850	13.97	7.88
900	14.47	8.38
950	14.97	8.88
1000	15.47	9.38
1050	15.97	9.88
1100	16.47	10.38
1150	16.97	10.88

GASKETS THROUGHOUT
MAXIMUM FACE RUNOUT TO BE .004 T.I.R.
MAXIMUM PILOT ECCENTRICITY TO BE .004 T.I.R.
PERMISSIBLE SHAFT RUNOUT TO BE .002 T.I.R.

NO	REVISION	BY & DATE	CHK
-	UPDATED & REDRAWN IN SOLIDWORKS	LST 12/17/2009	XX

TOLERANCES UNLESS SPECIFIED
DEC INCHES
.X ±.1
.XX ±.03
.XXX ±.005
.XXXX ±.0005
ANG ±1/2°
FINISH

REGAL-BELOIT CORPORATION

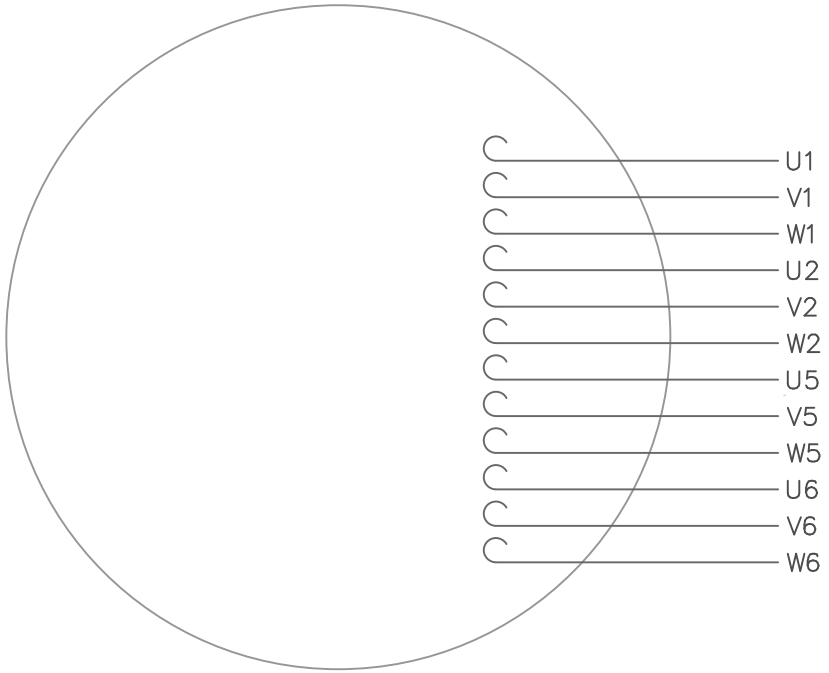
TITLE OUTLINE - 180TC FRAME
TEFC - "C" FACE
MAT'L GENERAL PURPOSE

DRAWN RDW 4/18/07
CHK
APPR SW 4/18/07
SCALE 1:2
REF 035452
FMF
PAGE OF

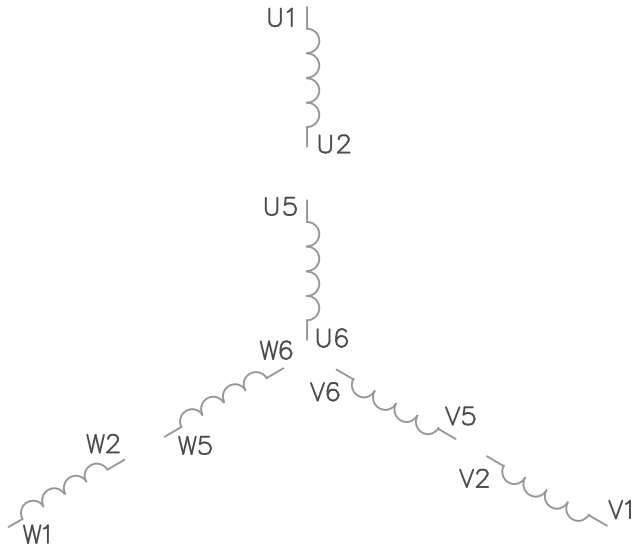
THIRD ANGLE PROJECTION
RFP
PREV
NETWORK FILE NAME
SIZE B
DRAWING NO 035518
REV -

005381–01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



VOLTAGE	L1	L2	L3	JOIN
(2Δ) LOW	U1,W2 U5,W6	V1,U2 V5,U6	W1,V2 W5,V6	----
(2Y) MEDIUM	U1,U5	V1,V5	W1,W5	(U2,V2,W2) (U6,V6,W6)
(1Δ) HIGH	U1,W6	V1,U6	W1,V6	(U2,U5) (V2,V5) (W2,W5)

NO.	REVISION	BY	DATE
1	REDRAWN TO CURRENT STANDARDS	DBT	05/30/97

TOLERANCES UNLESS OTHERWISE SPECIFIED

DECIMALS

.00	± .01
.000	± .005
.0000	± .0005
FRACTIONS	± 1/64
ANGLES	± 1/2°
INCH/MM	

LEESON ELECTRIC CORPORATION

DRAWN	GWS 2/23/96
CH'K'D.	
APPR.	
SCALE	1=1
REF.	005352 PG 3
FMF	

TITLE: EXT.WIRING DIAGRAM TYPE "T" W/O PROTECTOR

MAT'L.: DECAL – 080590

FINISH: STOCK

SIZE: A

DRAWING NO.: 005381–01

9/25/2008 6:03:07 PM

LEESON®

CERTIFICATION DATA SHEET

1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810

CATALOG #: 131506.00

CONN. DIAGRAM: 005381.01

OUTLINE: 035518-850

MOUNTING: F1 ONLY

WINDING #: T8447 FR 6 A

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	1500	1425	182TC	TEFC	J	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	50	220/380/440	8.2/4.7/4.1	ACROSS THE LINE	CONTINUOUS	F4	1.15	40

FULL LOAD EFF:	82.5	3/4 LOAD EFF:	83.3	1/2 LOAD EFF:	81.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	80.5	3/4 LOAD PF:	73.8	1/2 LOAD PF:	61	-	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
10.8 LB-FT	62.5 / 36.2 / 31.3	31.9 LB-FT 295 %	38.2 LB-FT 354 %	85

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0.306 LB-FT^2	0.3 LB-FT^2	- SEC.	-	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE - LEESON (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6206	6205						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

NOTES

*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

7/20/2018

Data Sheet

Date: 1/19/2018

131506.00

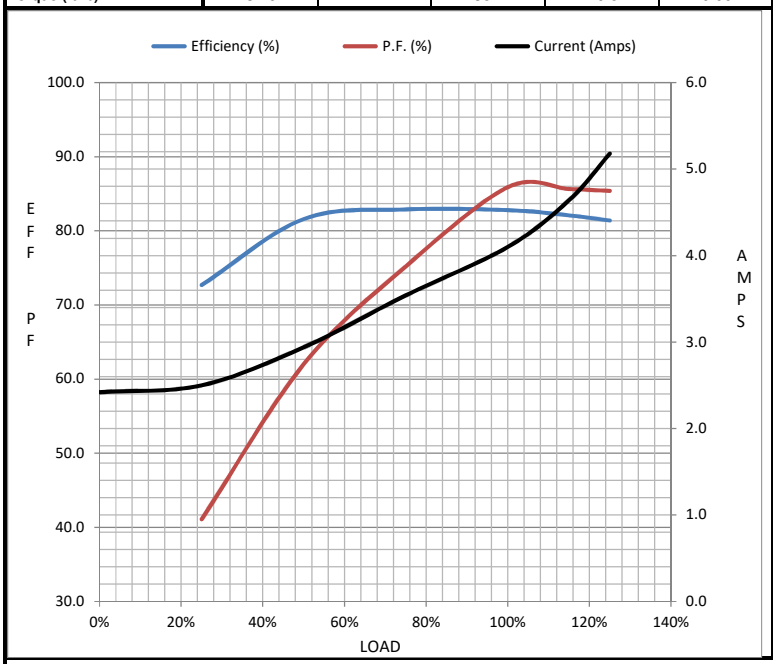
Data @ 440 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.42	2.50	2.94	3.5	4.1	4.6	5.2	31.1	
Torque (ft-lb)	0.00	2.70	5.4	8.1	10.8	12.2	13.5	32.0	
RPM	1500	1487	1476	1462	1448	1,442	1432	0	
Efficiency (%)		72.7	81.6	82.9	82.8	82.1	81.4		
P.F. (%)	10.9	41.1	62.0	75.2	85.9	85.7	85.4	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	400	1000	1448	1500
Current (Amps)	31.1	28.6	18.7	4.1	2.42
Torque (ft-lb)	32.0	27.7	38.2	10.8	0.00



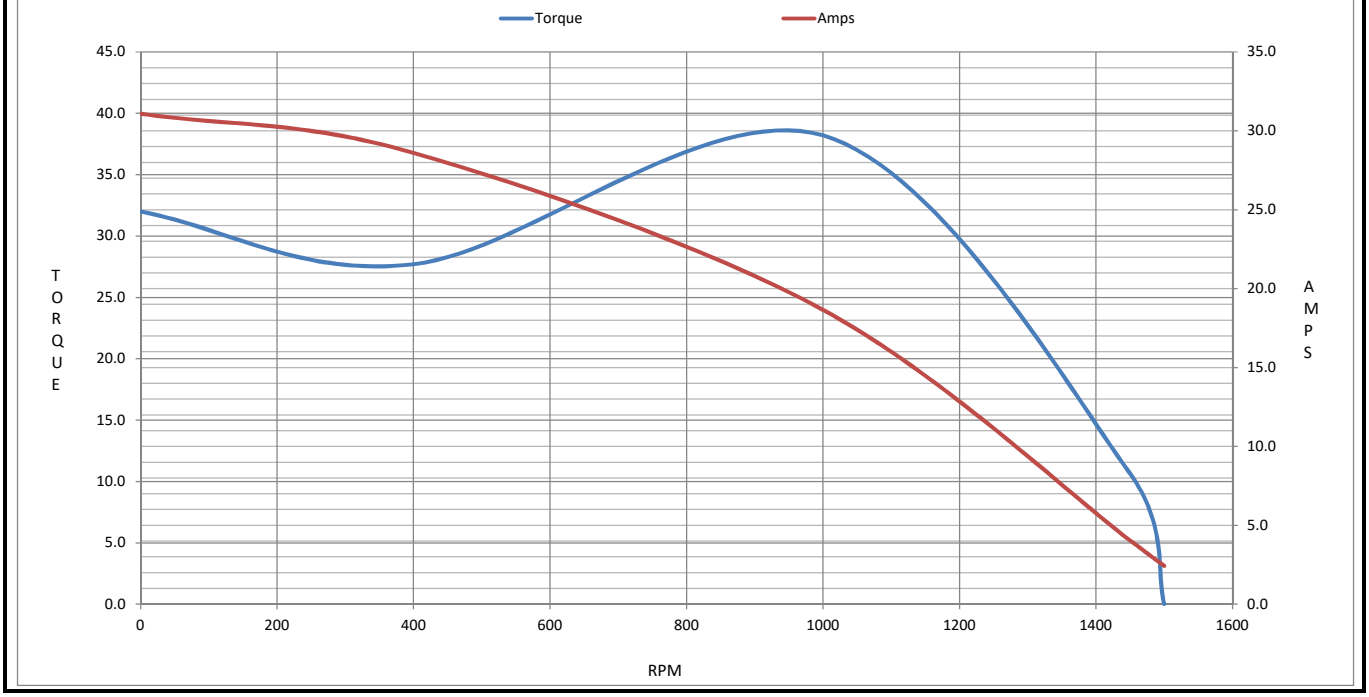
Information Block

HP	3.0	
Sync. RPM	1500	
Frame	182	
Enclosure	TEFC	
Construction	TFW	
Voltage	220/380/440	V
Frequency	50	Hz
Design	B	
LR Code letter	J	
Service Factor	1.15	
Temp Rise @ FL	85	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.31	Lb-Ft²
Ref Wdg	T8447 FR	
Sound Pressure @ 1M	999	dBA
VFD Rating	NONE	
Outline Dwg	035518-850	
Conn. Diag	005381.01	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

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 : 131506.00

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

Catalog No : 131506.00

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