PRODUCT INFORMATION PACKET

Model No: 171320.60
Catalog No: 171320.60
WATTSAVER® General Purpose Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1800 & 1500 RPM, 182T Frame, TEFC

Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
Â©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E

Nameplate Specifications

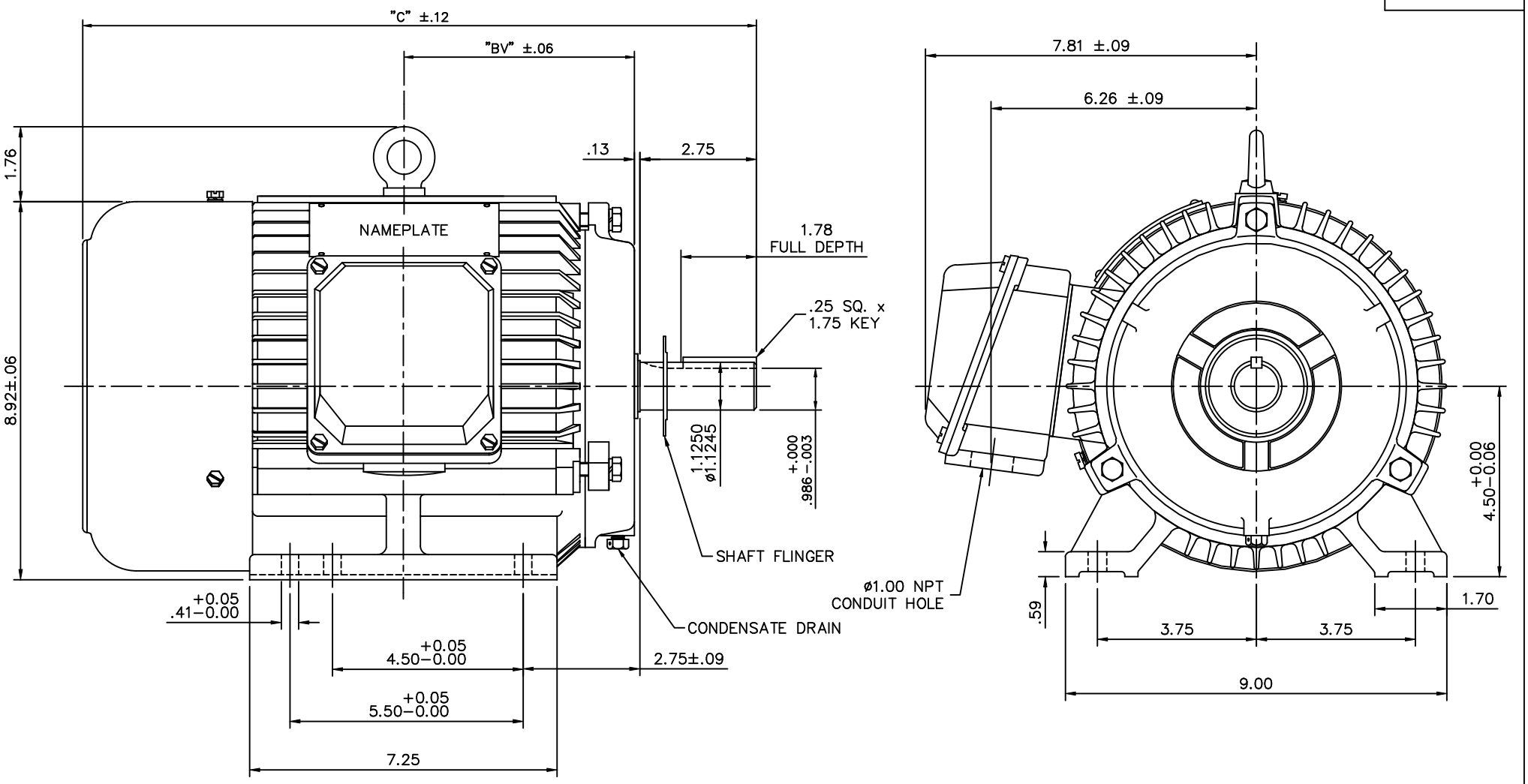
Phase	3	Output HP	3 & 2 Hp
Output KW	2.2 & 1.5 kW	Voltage	208-230/460 & 190/380 V
Speed	1770 & 1465 rpm	Service Factor	1.15 & 1.15
Frame	182T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	90.2 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	8.3-8/4 & 6.6/3.3 A	Power Factor	79.5
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	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid Base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Overall Length	16.14 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	005010.01	Outline Drawing	16953460-182T

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:06/22/2023

169534-60



NOTE: 184T HAS 6 MTG. HOLES, USING BOTH 182T AND 184T "2F" LOCATIONS.

FRAME	"C"	"BV"
182T	16.14	5.38
184T	16.80	5.88

NO.	REVISION	BY & DATE	CHK
02	REDRAWN TO CURRENT CAD STANDARDS	CJK 11/14/01	
01	REDRAWN WITH CURRENT STANDARDS TO CAD	D.R.Z2/15/01	

TOLERANCES UNLESS SPECIFIED

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

LEESON — ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE: OUTLINE – 182T & 184T FRAME RIGID – TEFC NEW CON-BOX

MAT'L. CAST IRON

FINISH

CAD FILE 16953460

RFP

DIST

DRAWN	J.J.K. 03/25/99
CHK	
APPD	P.G. 03/31/99
SCALE	7=16
REF	169500
FMF	
PREV	

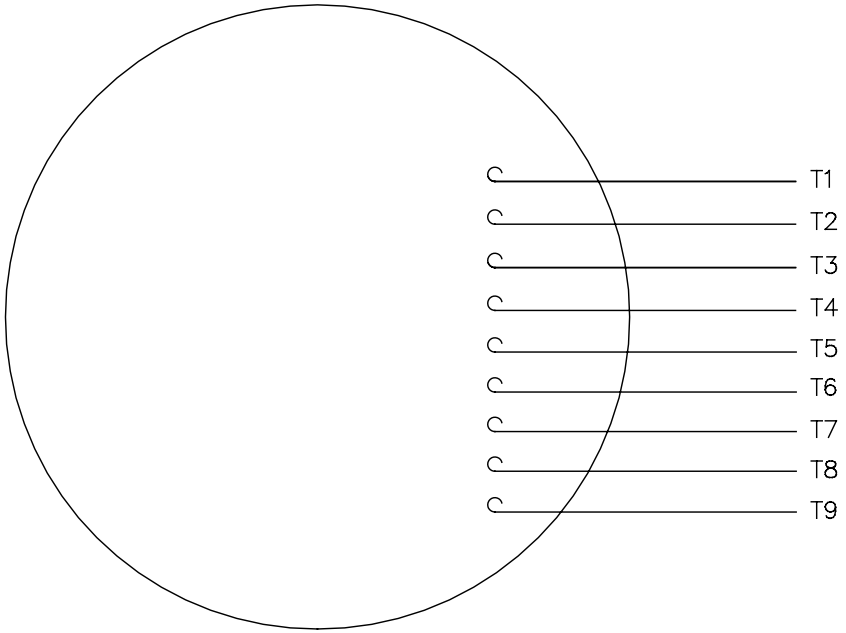
SIZE	DRAWING NO.	REV.
B	169534-60	02

THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT

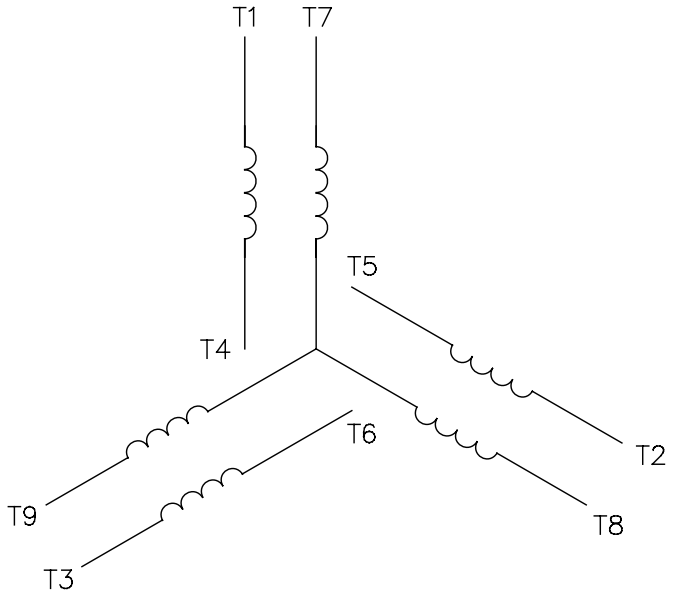
Uncontrolled Copy

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

NO.	REVISION	BY & DATE	CHK
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

REGAL™ Regal Beloit America, Inc.

TITLE: EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR

MAT'L. DECAL – 004014

FINISH

CAD FILE 00501001

RFP 04/12/02

DIST BRF-NLV

DRAWN RDW 04/12/02 | CHK | APPD | SCALE 1=1 | REF FIG.2-51 | FMF | PREV

SIZE A | DRAWING NO. 005010-01 | REV. A

THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED
THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT

Uncontrolled Copy

LEESON®

CERTIFICATION DATA SHEET

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

CATALOG #: 171320.60

CONN. DIAGRAM: 005010.01

OUTLINE: 16953460

MOUNTING: F1 ONLY

WINDING #: T08704010 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	1800	1770&1465	182T	TEFC	J	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	208-230/460&190/380	8.3-8/4&6.6/3.3	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	90.2&91	3/4 LOAD EFF:	89.5	1/2 LOAD EFF:	88.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	79.5&76	3/4 LOAD PF:	73.5	1/2 LOAD PF:	62	89.5	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
8.9 LB-FT	58.8 / 29.4	19.5 LB-FT 218 %	32.7 LB-FT 367 %	25

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0.335 LB-FT^2	0.3 LB-FT^2	15 SEC.	2	- LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
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: CONSTANT 10:1
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

Uncontrolled Copy

Data Sheet

Date: 1/19/2018

171320.60

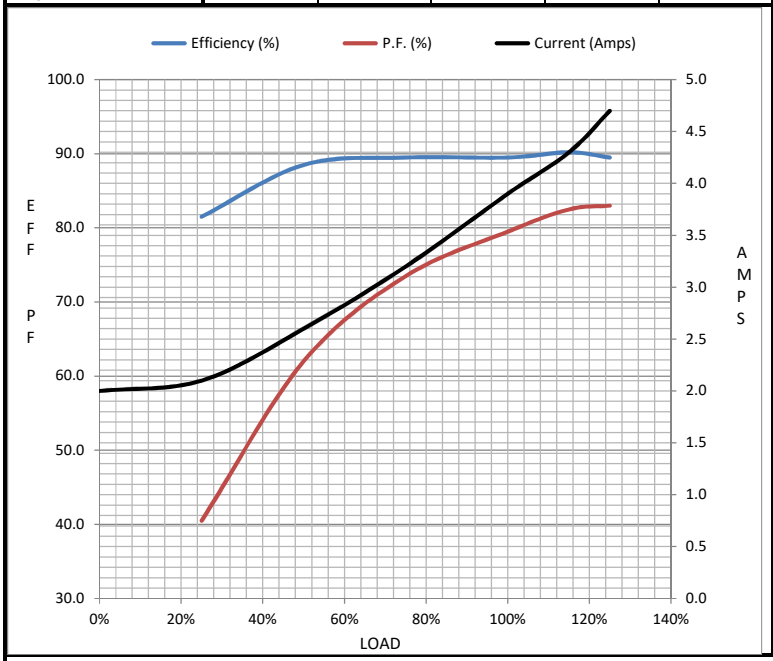
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.00	2.10	2.60	3.2	3.9	4.3	4.7	29.4	
Torque (ft-lb)	0.00	2.20	4.4	6.7	8.9	10.3	11.2	19.5	
RPM	1800	1795	1785	1775	1770	1,765	1760	0	
Efficiency (%)		81.5	88.5	89.5	89.5	90.2	89.5		
P.F. (%)	7.5	40.5	62.0	73.5	79.5	82.5	83.0	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	375	1575	1770	1800
Current (Amps)	29.4	26.0	18.3	3.9	2.00
Torque (ft-lb)	19.5	15.0	32.7	8.9	0.00



Information Block

HP	3.0	
Sync. RPM	1800	
Frame	182	
Enclosure	TEFC	
Construction	TFC	
Voltage	208-230/460#190/380	V
Frequency	60	Hz
Design	B	
LR Code letter	J	
Service Factor	1.15	
Temp Rise @ FL	28	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.34	Lb-Ft²
Ref Wdg	T08704010 NONE	
Sound Pressure @ 1M	999	dBA
VFD Rating	CONSTANT 10:1	
Outline Dwg	16953460	
Conn. Diag	005010.01	

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