

PRODUCT INFORMATION PACKET

Model No: 145THTN19059
Catalog No: W507A
1.50 HP Severe Duty Motor, 3 phase, 1800 RPM, 460 V, 145T Frame, TENV
IEEE 841 Motors



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REGAL

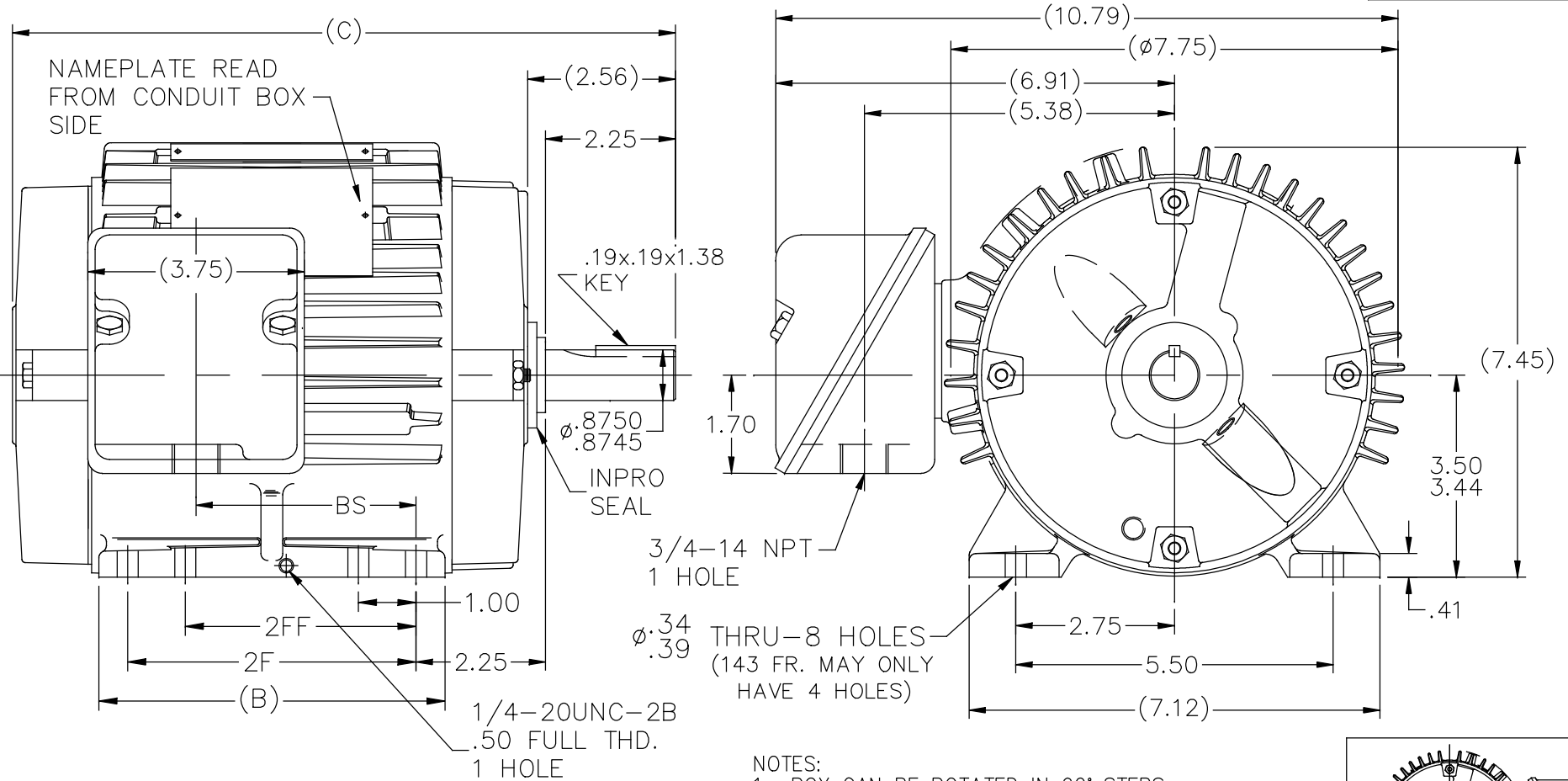
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	460 V
Current	2.3 A	Speed	1755 rpm
Service Factor	1.15	Phase	3
Efficiency	86.5 %	Power Factor	71
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	P
Frame	145T	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Hazardous Location	DIVISION 2 T2B		

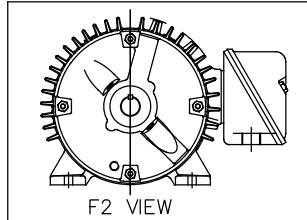
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	7.9 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	11.43 in
Frame Length	6.25 in	Shaft Diameter	0.875 in
Shaft Extension	2.56 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	EE7300	Outline Drawing	104326-625

104326



- NOTES:
- 1- BOX CAN BE ROTATED IN 90° STEPS.
 - 2- BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 - 3- FRONT GREASE HOLE LOCATIONS SHOWN WITH HIDDEN LINES.



DASH	FR.	B	C	BS	2F	2FF
525	143T	5.00	10.43	2.81	4.00	-
625	145T	6.00	11.43	3.81	5.00	4.00

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN PGK 06-24-1997
					DEC.	INCHES		
8	UPDATED SHAFT EXTENSION	MVG 05/19/2017	PVR					CHK ML 06-27-1997
7	UPDATED F2 VIEW AND LOGO	SL 04/21/2016						APPD SAT 07-10-1997
6	ADDED F2 VIEW	UD 11/22/13			.X	±.1		SCALE 3=8
5	UPDATED PER ECO-0031264	PN 03-07-2013	ML	.XX		±.03	TITLE OUTLINE	REF
4	CHG'D TO HAVE 8 MTG. HOLES, WAS 4 CN 29200-3715	TAT 08-31-2004	ML	.XXX		±.005	140T FR. - BB - TS - TENV - INPRO SEAL	FMF
3	REDRAWN IN AUTOCAD	TAT 06-29-2004		.XXXX		±.0005	MAT'L.	PREV
			RFP				CAD FILE 104326	SIZE A
			DIST	WP				DRAWING NO. 104326
								PAGE OF 8
								REV. 8

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**THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'**

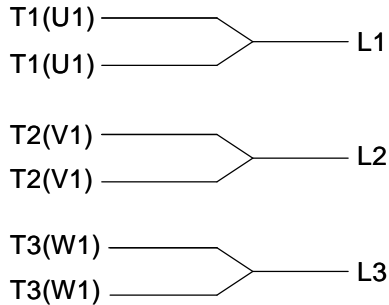
**TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.**

TERMINAL BLOCK WHEN SPECIFIED



VIEW OF TERMINAL END

**IF MOTOR HAS
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD
CONNECTION**

- L1 _____ WHITE _____
- L2 _____ RED _____
- L3 _____ BLACK _____

DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

Regal Beloit America, Inc.	
MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7300
SHEET 1 OF 1	

Data Sheet

145THTN19059



Submittal
Data @ 460 V

Date: 6/29/2017

Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.50	1.55	1.75	2.00	2.30	2.50	2.65	24.0
Torque (ft-lb)	0.00	1.10	2.20	3.5	4.5	5.2	5.7	21.2
RPM	1800	1790	1780	1765	1755	1750	1745	0
Efficiency (%)		74.0	82.5	85.5	86.5	86.5	85.5	
P.F. (%)	7.5	30.5	49.0	62.5	71.0	75.0	77.0	69.5

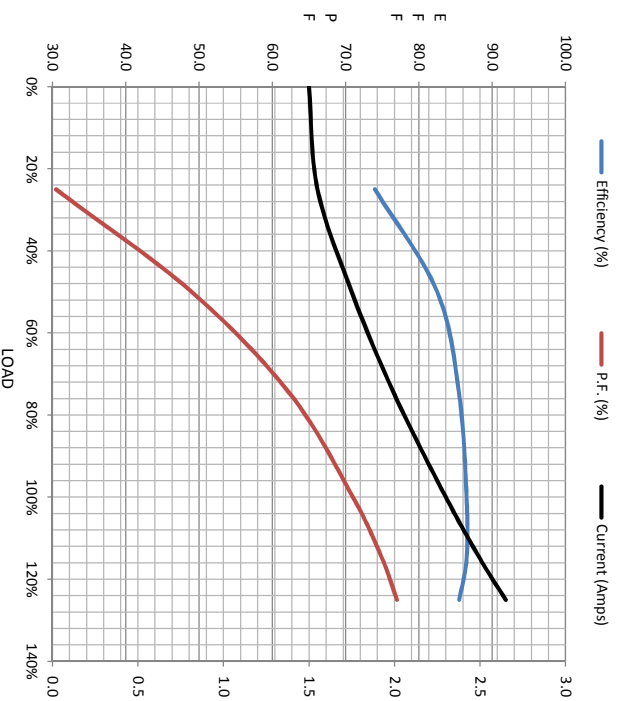
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (rpm)	0	130	1190	1755	1800
Current (Amps)	24.0	23.3	16.0	2.30	1.50
Torque (ft-lb)	21.2	20.2	25.0	4.5	0.00

Information Block

HP	1.5
Sync. RPM	1800
Frame	145
Enclosure	TENV
Construction	TTN
Voltage	460 V
Frequency	60 HZ
Design	A
LR Code letter	P
Service Factor	1.15
Temp Rise @ FL	70 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Rotor/Shaft wkt	0.14 Lb-Fe
Rel Wdg	Z14256 F3
Sound Pressure @ 1M	62 dBA
VFD Rating	CONSTANT 10:1
Outline Dwg	A-104326-625
Conn. Diag	EE7300
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
4.8380	3.7800	7.1250	7.1630	189.6050



Speed -Torque Curve

