

PRODUCT INFORMATION PACKET

Model No: 145TTTN16630

Catalog No: E652A

1.50 HP Severe Duty Motor, 3 phase, 1800 RPM, 460 V, 145T Frame, TENV
Other Severe Duty Motors





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	54
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
Outline Drawing	A-100658-625	Connection Drawing	EE7300

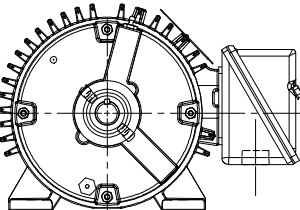
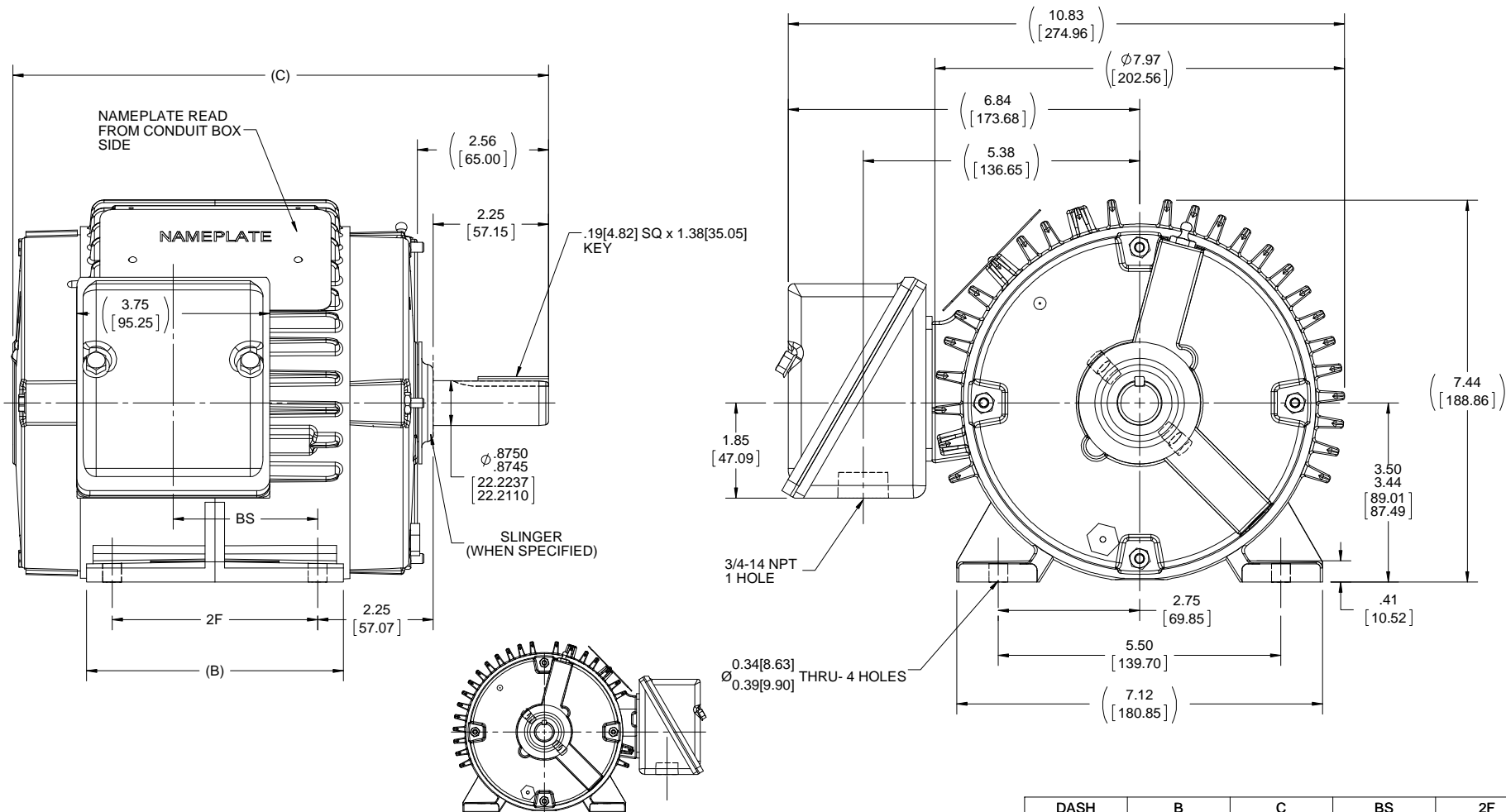
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Uncontrolled Copy

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DASH	B	C	BS	2F
525	5.00 [127.00]	10.43 [264.92]	2.81 [71.37]	4.00 [101.60]
625	6.00 [152.4]	11.43 [29.32]	3.81 [96.77]	5.00 [127.00]

DRAWING REVISION C	REVISION BY H. ADIKE	DATE 06/25/2018	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE -X ±0.1 [+2.5] ±7-30° .XX ±0.03 [+0.76] .XXX ±0.005 [+0.127] .XXXX ±0.0005 [+0.0127]
ECO ECO-0147607	APPROVED BY PST	DATE 06/25/2018	REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [076/.381] X 45° CORNER FILLETS: R.02 [51] MACHINED SURFACES: 200 INCH mm 5.1 mm SHOWN IN [BRACKETS]
ECO DESCRIPTION THE GREASE ZERK ROTATED TO 1 O'CLOCK POSITION <small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. (OWNER) AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>			

DRAWN BY RM	REGAL™ Regal Beloit America, Inc.	
DATE 10/27/1992	DESCRIPTION OUTLINE 140T FR. - BB- TS - TENV	
APPROVED BY JA	MATERIAL	PROCESS/FINISH
DATE 11/02/1992	REFERENCE 100658	SIZE B
THIRD ANGLE PROJECTION	DRAWING NUMBER 100658	SHEET 1 OF 1

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 LOCATION SHOWN WITH HIDDEN LINES.

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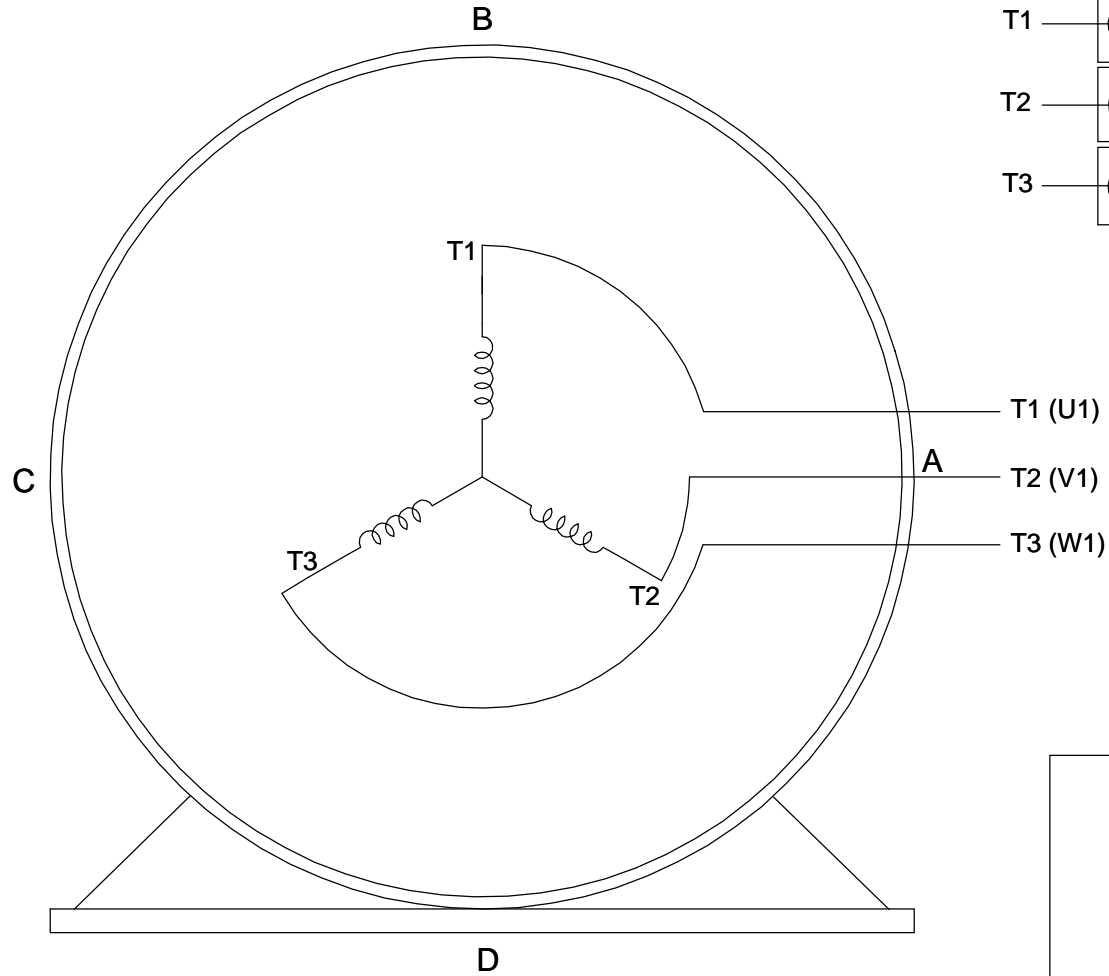
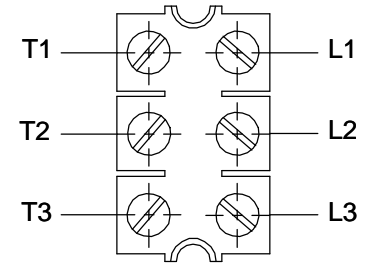
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**THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'**

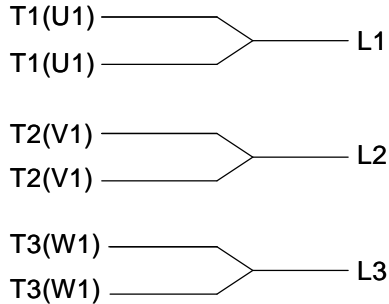
**TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.**

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.		
		DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7300	SHEET 1 OF 1



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER P.O. #:
 ORDER #: EE7300
 REFERENCE MODEL #: 145TTTN16630
 CONN. DIAGRAM: A-100658-625
 CAT #: E652A
 OUTLINE: ZT4256
 CUSTOMER PART #:
 WINDING: R3 5
 MOUNTING: F1/F2 CAPABLE
 SPEED:
 TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1.5	1.1	1800	1755	145T	TENV	TTN	P	A

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	2.3	LINE OR INVERTER	CONT	F	1.15	40	3300
	F.L. EFF	86.5	3/4 LD EFF	85.5	1/2 LD EFF	82.5	GTD EFF	ELECT. TYPE	
	F.L. PF	71.0	3/4 LD PF	62.5	1/2 LD PF	49.0	84.0	SO CAGE INV BATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
4.5 LB-FT	24.0	21.2 LB-FT	471%	26.0 LB-FT
@ 3 FT.	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME
62 DBA	71 DBA	0.14 LB-FT ²	10 LB-FT ²	START/SHOUR
				2
				MOTOR WGT
				50 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	UM SEVERE	DIVISION 272B	NO	NONE	BLUE (POWDER)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE BALL 6205	POLYREX EM	T	NONE	NONE	1144	STRESSPROOF (C-223)	CAST IRON

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	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
4.838	3.78	7.125	7.163	189.605	0.080	ODE

INVERTER TORQUE: CONSTANT 10:1
 INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER:	BRAKE:	FT-LB:	NONE	NA	NONE
NONE	NONE	NONE	NONE	NONE	NONE
NONE	NONE	NONE	NONE	NONE	NONE
NONE	NONE	NONE	NONE	NONE	NONE

PREPARED BY: FAREEDA DUDEKULA
 DATE: 9/12/2018

FORM: 3531 REV 4 2/27/06

UL: V-INS, CONST UL REC

HZ:

Data Sheet

Date: 12/3/2018

145TTTN16630

Customer: _____
Attention: _____



Submital

Submitted by: FAREEDA DUDEKULA

Data @ 460 V

Motor Load Data

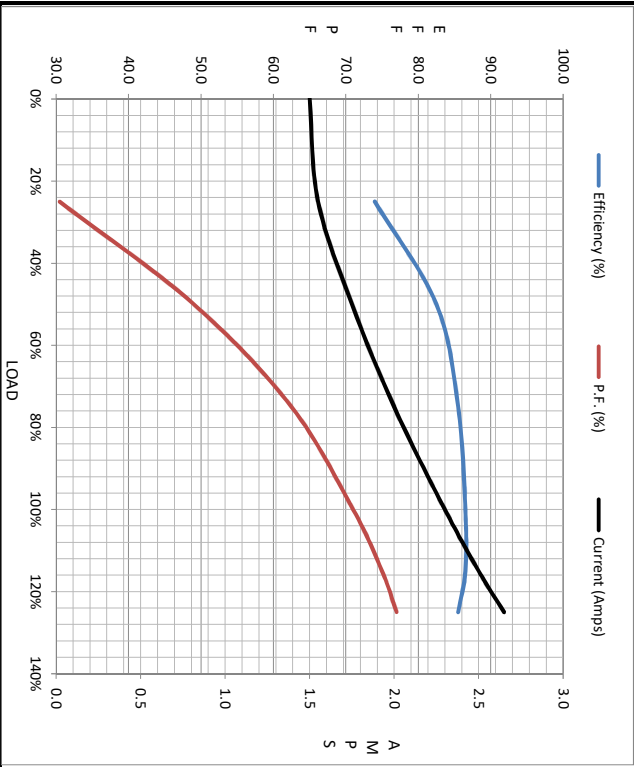
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.50	1.55	1.75	2.00	2.30	2.50	2.65	24.0
Torque (ft-lb)	0.00	1.10	2.20	3.5	4.5	5.2	5.7	21.2
RPM	1800	1790	1780	1765	1755	1,750	1745	0
Efficiency (%)		74.0	82.5	85.5	86.5	86.5	85.5	
P.F. (%)	7.5	30.5	49.0	62.5	71.0	75.0	77.0	69.5

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	26.0	4.5	0.00

Information Block

HP	1.5			
Sync. RPM	1800			
Frame	145			
Enclosure	TENV			
Construction	TTS			
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			
Motor/Shaft Wk ²	0.14 Lb-Ft ²			
Ret Wdg	ZT4256 R3			
Sound Pressure @ 1M	62 DBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	A-100658-625			
Conn. Diag	EE7300			
Additional Specifications:				
0				
0				
R1	R2	X1	X2	Xm
4.8380	3.7800	7.1250	7.1630	189.6050



Speed - Torque Curve

