PRODUCT INFORMATION PACKET

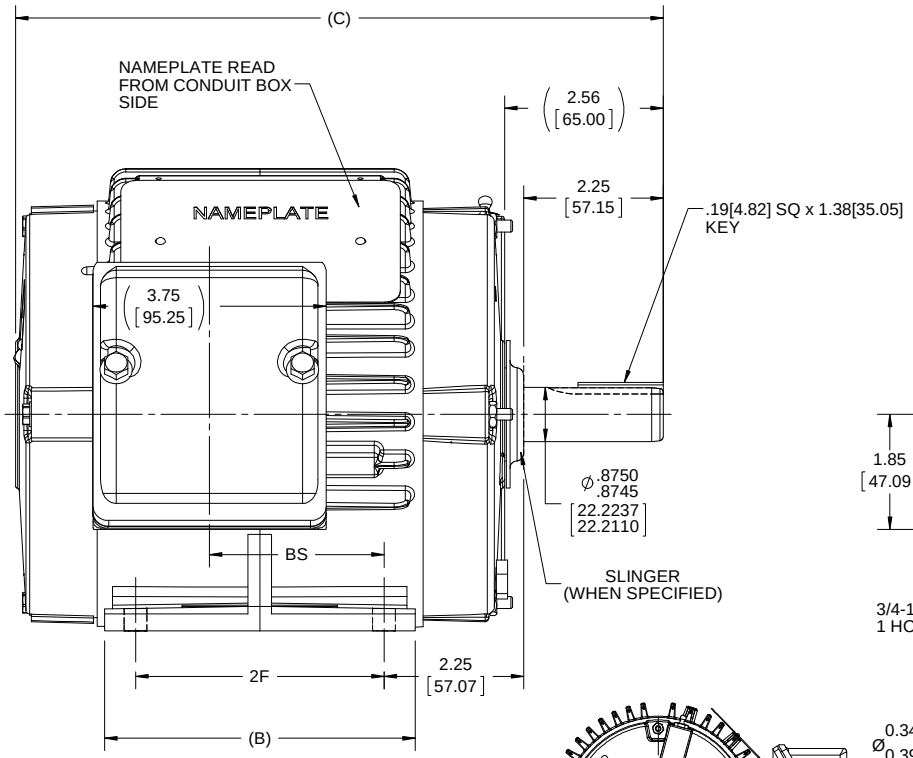
Model No: 143TTTN6563
Catalog No: E461
1,1800,TENV,143T,3/60/230/460
Severe Duty

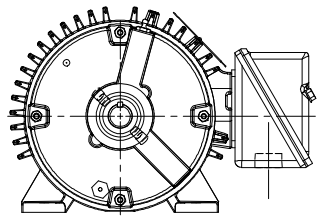
Nameplate Specifications

Output HP	**1 Hp**	Output KW	**0.75 kW**
Frequency	**60 Hz**	Voltage	**230/460 V**
Current	**3.0/1.5 A**	Speed	**1735 rpm**
Service Factor	**1.15**	Phase	**3**
Efficiency	**85.5 %**	Duty	**Continous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**M**	Frame	**143T**
Enclosure	**Totally Enclosed Non Ventilated**	Overload Protector	**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**		

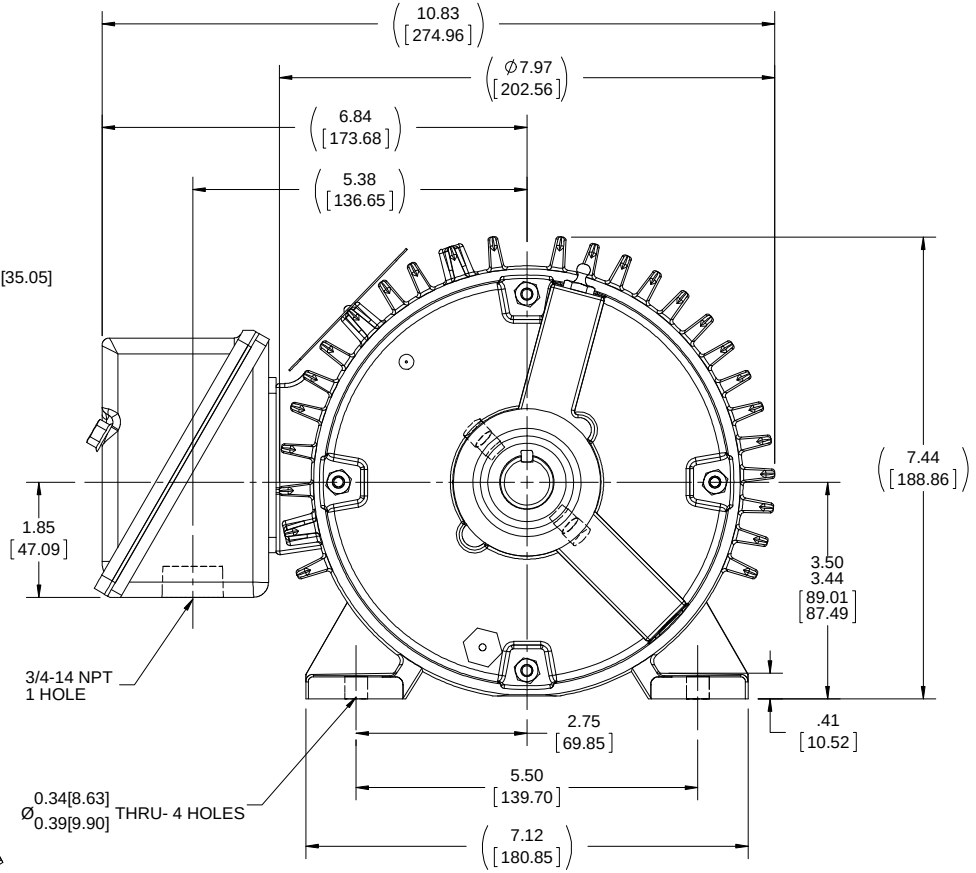
Technical Specifications

Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line 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	**10.43 in**	Frame Length	**5.25 in**
Shaft Diameter	**0.875 in**	Shaft Extension	**2.56 in**
Assembly/Box Mounting	**F1/F2 Capable**		
Outline Drawing	**A-100658-525**	Connection Diagram	**A-EE7308**





F2 MOUNTING



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]

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.

DRAWING REVISION	REVISION BY	DATE
C	H. ADIKE	06/25/2018
ECO	APPROVED BY	DATE
ECO-0147607	PST	06/25/2018

ECO DESCRIPTION
THE GREASE ZERK ROTATED TO 1 O'CLOCK POSITION

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]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45 °
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm SHOWN IN [BRACKETS]

DRAWN BY	RM
DATE	10/27/1992
APPROVED BY	JA
DATE	11/02/1992
REFERENCE	100658
THIRD ANGLE PROJECTION	

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
140T FR. - BB- TS - TENV

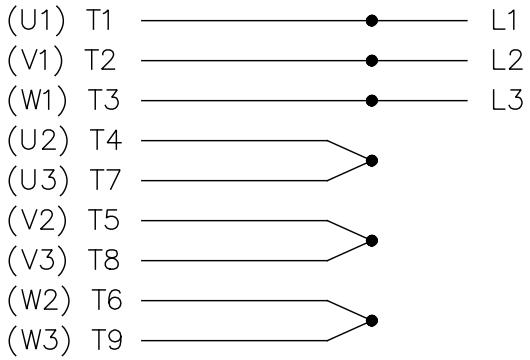
MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	100658	1 OF 1

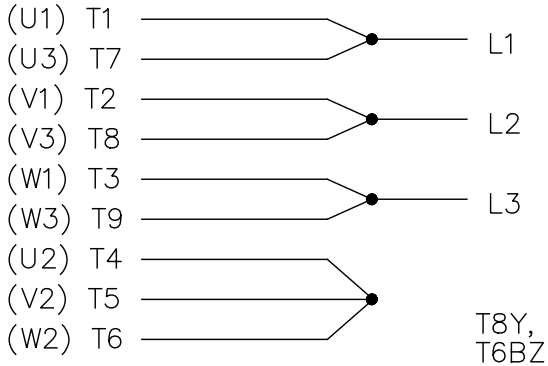
EE7308

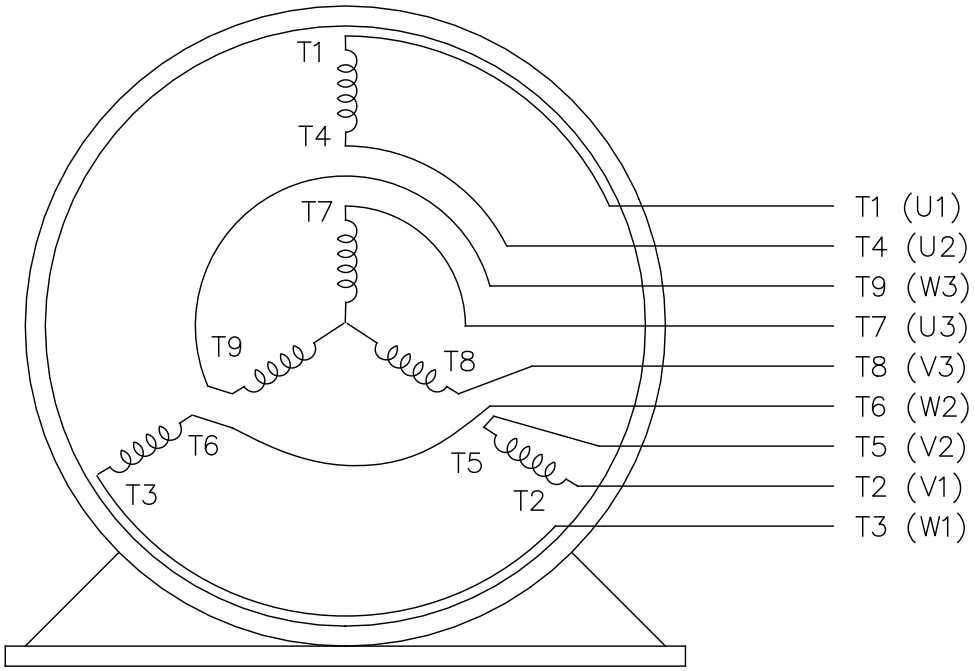
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE





VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1	WHITE
L2	RED
L3	BLACK

NO.	REVISION	BY & DATE	CHK
5	CHG TO REGAL LOGO	SL 09/10/2015	AB
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS
1	REDRAWN	RM 11/20/1990	

TOLERANCES UNLESS SPECIFIED

ANG	DEC.	INCHES
	.X	±.1
	.XX	±.02
	.XXX	±.005
	.XXXX	±.0005
	ANG	±7'30"

Regal Beloit America, Inc.

TITLE CONNECTION DIAGRAM
3ø – DUAL VOLTAGE MOTOR

MAT'L.

FINISH

CAD FILE ee7308

RFP

DIST WP

DRAWN RM	11/20/1990
CHK ML	11/21/1990
APPD SAS	04/24/2003
SCALE	1=1
REF	
FMF	
PREV	

SIZE	DRAWING NO. PAGE OF	REV.
A	EE7308	5

CERTIFICATION DATA SHEET

Model#:	143TTTN6563 BA	**WINDING#:**	ZT492 TS 3
CONN. DIAGRAM:	A-EE7308	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	A-100658-525		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1	.75	1800	1735	143T	TENV	M	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	3/1.5	LINE OR INVERTER	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 85.5	3/4 LOAD EFF: 85.5	1/2 LOAD EFF: 84	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 72	3/4 LOAD PF: 67	1/2 LOAD PF: 53.5	82.5	SQ CAGE INV RATED	1.7 / .9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	27 / 13.5	11 LB-FT 367	14 LB-FT 467	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.1 LB-FT^2	7 LB-FT^2	20 SEC.	2	55 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIVISION 2 T2B	FALSE	NONE	BLUE (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON
6205	6203						

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

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 1000:1
INV. HP SPEED RANGE: 1.5 X BASE SPEED
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

* NOTES *

DATE: 06/23/2017 12:50:28 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 20-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

143TTTN6563

Submittal

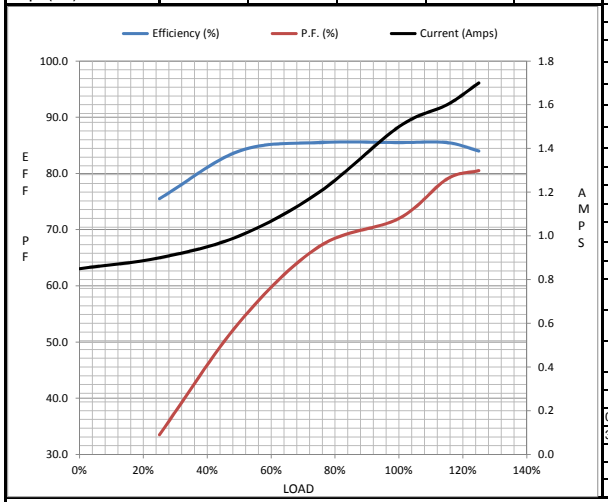
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	0.85	0.90	1.00	1.20	1.50	1.60	1.70	13.5	
Torque (ft-lb)	0.00	0.74	1.50	2.20	3.0	3.5	3.8	11.0	
RPM	1800	1785	1770	1755	1735	1,730	1725	0	
Efficiency (%)		75.5	84.0	85.5	85.5	85.5	84.0		
P.F. (%)	10.0	33.5	53.5	67.0	72.0	79.0	80.5	67.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1735	1800
Current (Amps)	13.5	12.1	9.0	1.50	0.85
Torque (ft-lb)	11.0	9.9	14.0	3.0	0.00



Information Block

HP	1.0
Sync. RPM	1800
Frame	143
Enclosure	TENV
Construction	TTN
Voltage	230/460 V
Frequency	60 Hz
Design	A
LR Code letter	M
Service Factor	1.15
Temp Rise @ FL	55 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.10 Lb-Ft²
Ref Wdg	ZT492 TS
Sound Pressure @ 1M	62 dBA
VFD Rating	CONSTANT 1000:1
Outline Dwg	A-100658-525
Conn. Diag	A-EE7308
Additional Specifications:	
0	
365THFS8036	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
7.8610	5.4770	11.6360	10.3590	300.8280

Speed -Torque Curve