

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 213TTTS6505
Catalog No: E656
7 1/2,3600,TENV,213T,3/60/575
Severe Duty



Regal and Marathon are trademarks of Regal Beloit Corporation or one of its affiliated companies.
©2018 Regal Beloit Corporation, All Rights Reserved. MC017097E

REGAL[®]



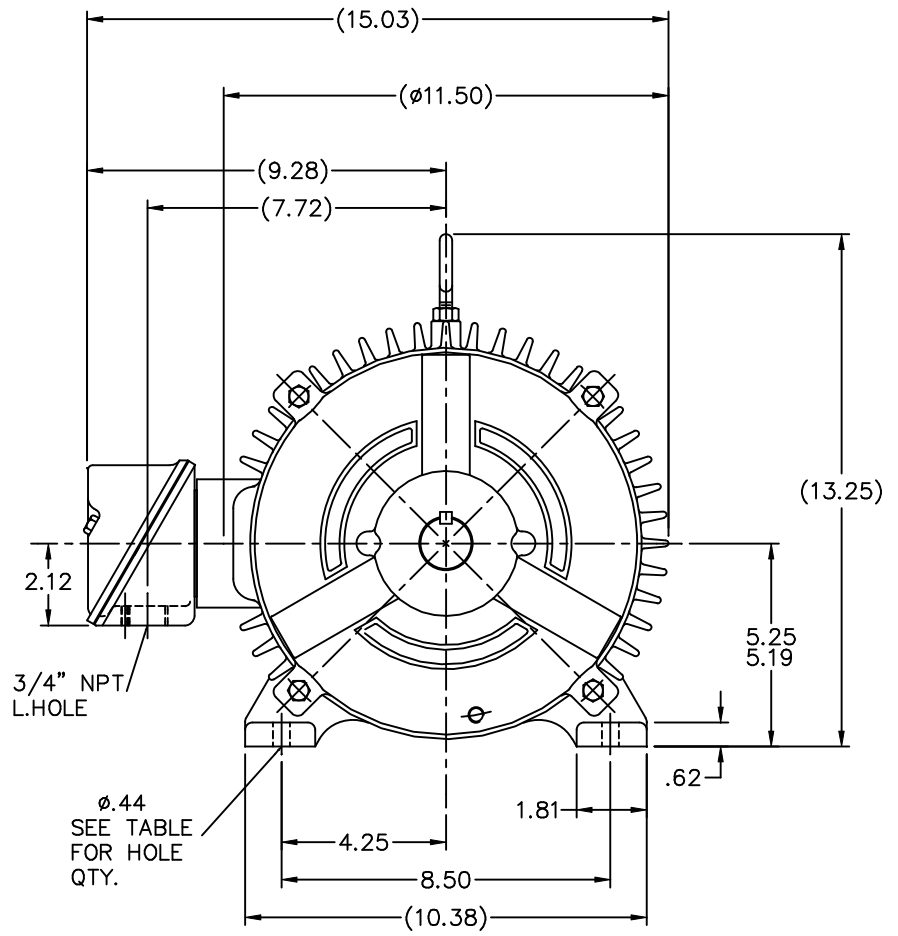
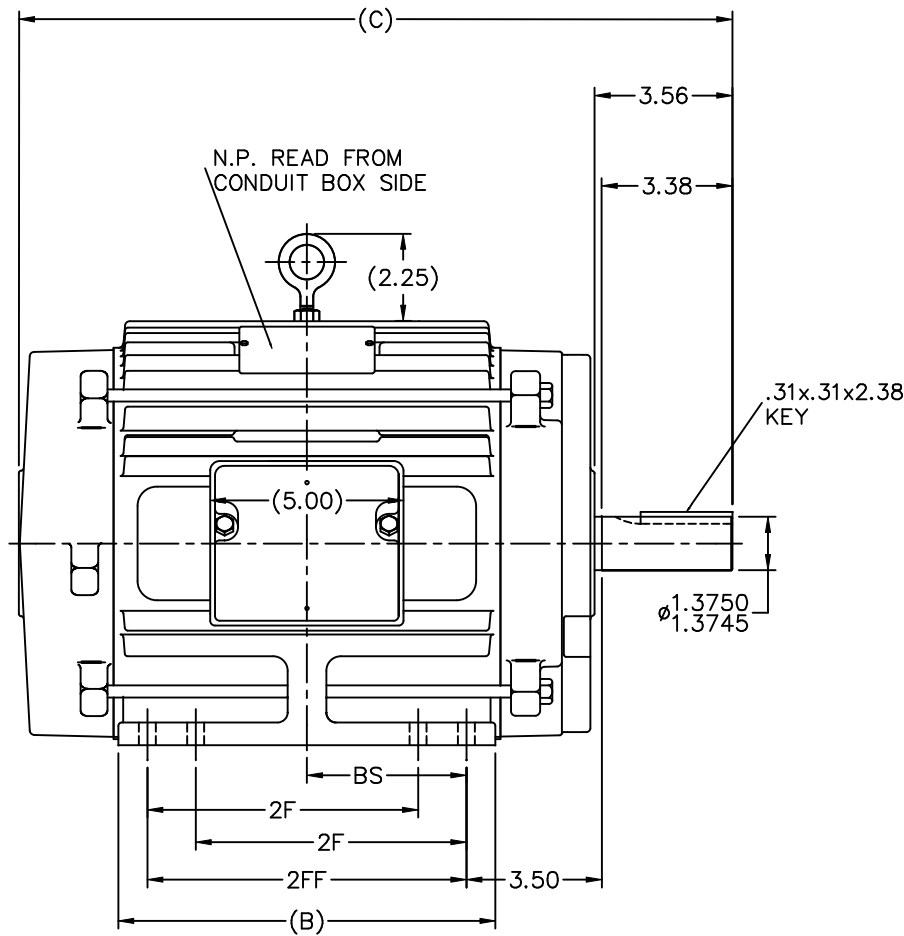
Nameplate Specifications

Output HP	7.5 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	575 V
Current	7.1 A	Speed	3535 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Duty	CONTINUOUS
Insulation Class	F	Design Code	B
KVA Code	H	Frame	213T
Enclosure	TENV	Overload Protector	NOT
Ambient Temperature	40 °C	Drive End Bearing Size	6307
Opp Drive End Bearing Size	6206	UL	Recognized
CSA	Y	CE	Y
IP Code	54		

Technical Specifications

Electrical Type	SQ CAGE INV RATED	Starting Method	LINE OR INVERTER
Poles	2	Rotation	REV
Mounting	RIGID	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	CAST IRON	Shaft Type	T
Overall Length	17.19 in	Frame Length	8.75 in
Shaft Diameter	1.38 in	Shaft Extension	3.56 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS85995-875	Connection Diagram	A-EE7300U

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 06/11/2018



- NOTES:
 1. BOX CAN BE ROTATED IN 90° STEPS.
 2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.

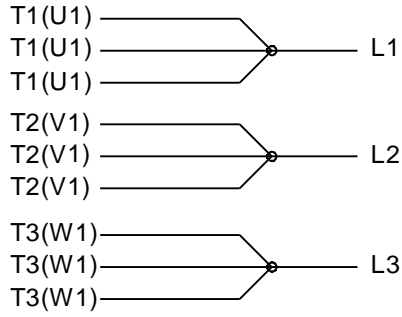
(REPLACES A-SS87840)

DASH	FRAME	B	2F	2FF	BS	C	FOOT HOLE QTY.	MOUNTING
725	213T	7.00	-	5.50	2.75	15.69	4	F1 OR F2
875	215T	8.50	-	7.00	3.50	17.19	4	F1 OR F2
875	213/5T	8.50	5.50	7.00	3.50	17.19	8	F1 OR F2
1000	213T	9.75	5.50	8.25	4.12	18.44	8	F1 OR F2
1000	215T	9.75	7.00	8.25	4.12	18.44	8	F1 OR F2

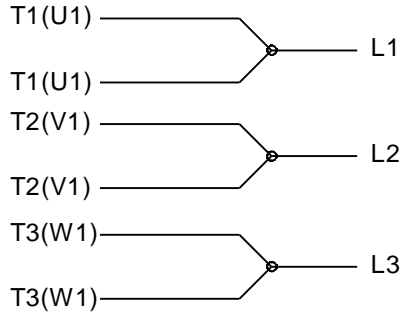
				TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN BRH 06-17-1998						
8	CLARIFIED EXT. DIMENSION	MU43615	TAT 02-13-2004	ML	DEC.	INCHES		CHK	KL 06-28-1998					
7	ADDED FOOT HOLE QTY. & MTG. TO TABLE	CN 37322	TAT 01-14-2004	ML	.X	±.1		APPD	ML 06-28-1998					
6	FOOT HOLES WERE 4 NOW 8	CN 29200-450	DRS 05-16-2000	.XX	±.03		TITLE OUTLINE							
5	REVISED CONDUIT BOX	CN 28426	NJS 01-18-2000	.XXX	±.005		210T FR. - TENV - CAST CONDUIT BOX							
4	AD'D '213/15 MAY ONLY HAVE..' NOTE	CN 27400-361	BLR 08-31-1999	.XXXX	±.0005		MAT'L							
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"		FINISH							
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							RFP	CAD FILE ss85995		SIZE	DRAWING NO.	PAGE	OF	REV.
							DIST	LB	B	SS85995	8			8

```
ERROR: undefined
OFFENDING COMMAND: Pscript_WinNT_
STACK:
```

IF MOTOR HAS 9 LEADS

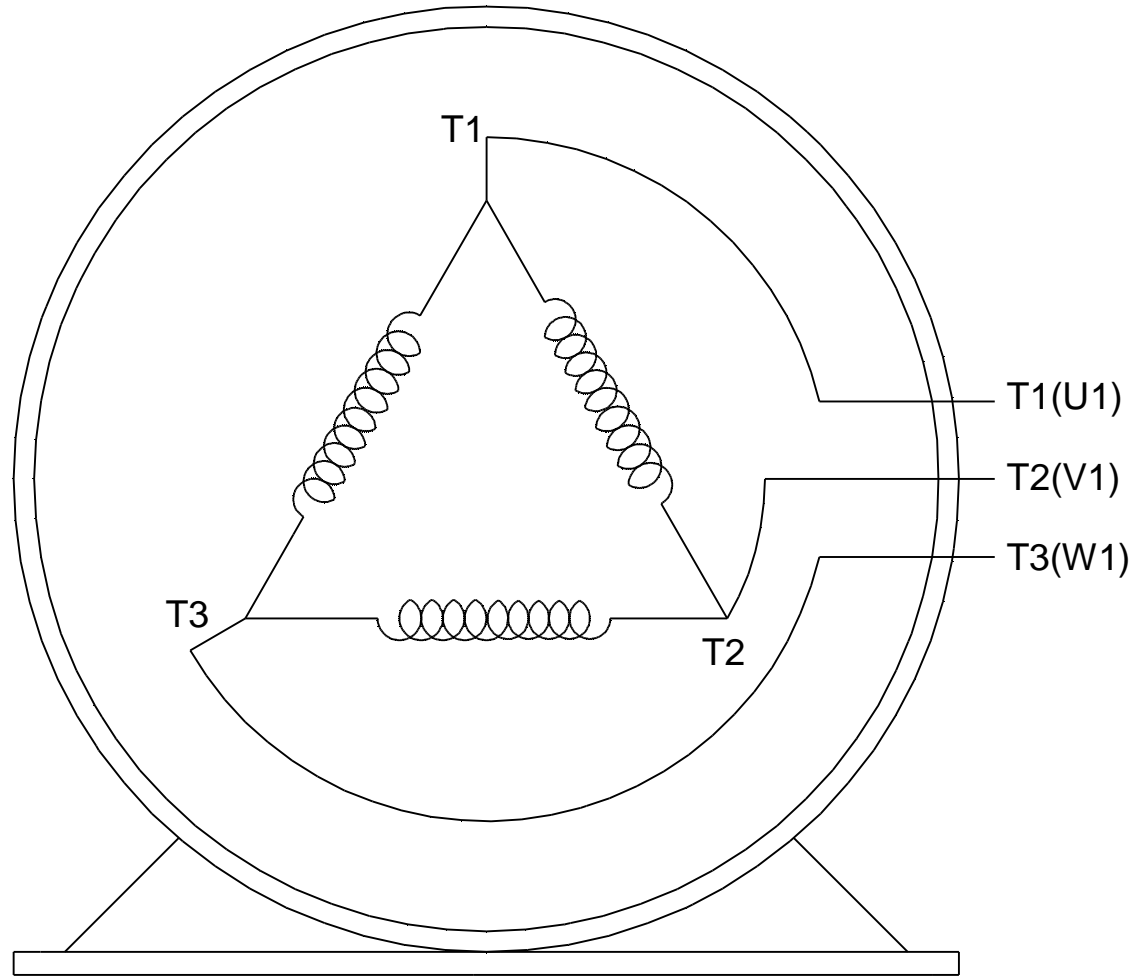
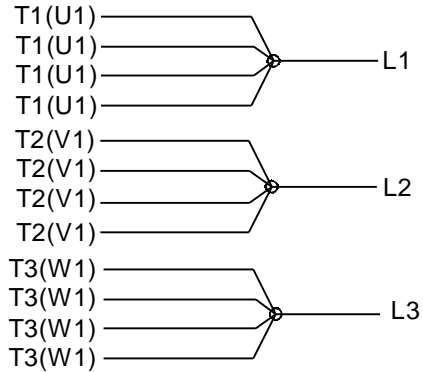


IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS



VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY AJW	DATE 05-04-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DRAWN BY DRS	Regal Beloit America, Inc.																			
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015	<table style="font-size: small; border-collapse: collapse;"> <tr> <td><u>DEC.</u></td> <td><u>INCH</u></td> <td><u>mm</u></td> <td><u>ANGLE</u></td> </tr> <tr> <td>.X</td> <td>±0.1</td> <td>[±2.5]</td> <td>±7' 30"</td> </tr> <tr> <td>.XX</td> <td>±0.02</td> <td>[±0.51]</td> <td></td> </tr> <tr> <td>.XXX</td> <td>±0.005</td> <td>[±0.127]</td> <td></td> </tr> <tr> <td>.XXXX</td> <td>±0.0005</td> <td>[±0.0127]</td> <td></td> </tr> </table>	<u>DEC.</u>		<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>	.X	±0.1	[±2.5]	±7' 30"	.XX	±0.02	[±0.51]		.XXX	±0.005	[±0.127]		.XXXX	±0.0005	[±0.0127]	
<u>DEC.</u>	<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>																					
.X	±0.1	[±2.5]	±7' 30"																					
.XX	±0.02	[±0.51]																						
.XXX	±0.005	[±0.127]																						
.XXXX	±0.0005	[±0.0127]																						
ECO DESCRIPTION UPDATED TO SOLIDWORKS			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 $\sqrt{\text{INCH}}$ 5.1 $\sqrt{\text{mm}}$ mm SHOWN IN [BRACKETS]	APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE																			
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.				DATE 09-30-1996		MATERIAL	PROCESS/FINISH																	
				REFERENCE	SIZE A	DRAWING NUMBER EE7300U	SHEET 1 OF 1																	

CERTIFICATION DATA SHEET

Model#: 213TTTS6505 DC **WINDING#:** K213269 TS 3
CONN. DIAGRAM: A-EE7300U **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: B-SS85995-875

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.6	3600	3535	213T	TENV	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	7.1	LINE OR INVERTER	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 91	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 87.5	3/4 LOAD PF: 84	1/2 LOAD PF: 75	90.2	SQ CAGE INV RATED	2.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
11.1 LB-FT	50.8	22.5 LB-FT 202	37 LB-FT 335	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
65 dBA	75 dBA	0.55 LB-FT^2	12 LB-FT^2	20 SEC.	2	160 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 (EPOXY)

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
6307	6206						

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

*
N
O
T
E
S
*

INVERTER TORQUE: CONSTANT 20:1
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
- FT-LB NONE V NONE Hz

DATE: 06/22/2017 06:50:06 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 16-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



213TTTS6505

Submittal

Data @ 575 V

Motor Load Data

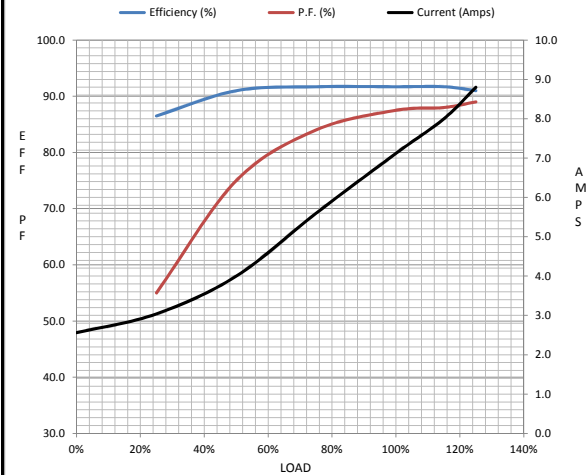
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	2.56	3.0	4.0	5.6	7.1	8.0	8.8	50.8
Torque (ft-lb)	0.00	2.80	5.5	8.3	11.1	13.0	14.0	22.5
RPM	3600	3585	3570	3555	3535	3,525	3515	0
Efficiency (%)		86.5	91.0	91.7	91.7	91.7	91.0	
P.F. (%)	7.0	55.0	75.0	84.0	87.5	88.0	89.0	39.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	2200	3250	3535	3600
Current (Amps)	50.8	48.0	32.8	7.1	2.56
Torque (ft-lb)	22.5	21.0	37.0	11.1	0.00

Information Block

HP	7.5			
Sync. RPM	3600			
Frame	213			
Enclosure	TENV			
Construction	TTS			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	75 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.55 Lb-Ft ²			
Ref Wdg	K213269 TS			
Sound Pressure @ 1M	65 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	B-SS85995-875			
Conn. Diag	A-EE7300U			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.0750	0.7320	3.5910	3.7390	126.5120



Speed -Torque Curve

