

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 254TTFCD6007
Catalog No: GT1421A
15,3600,TEFC,254TC,3/60/575
Totally Enclosed Fan Cooled (TEFC)



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REGAL



Nameplate Specifications

Output HP	15 Hp	Output KW	11.2 kW
Frequency	60 Hz	Voltage	575 V
Current	14.3 A	Speed	3545 rpm
Service Factor	1.15	Phase	3
Efficiency	91 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	254TC
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6209	UL	Listed
CSA	Y	CE	Y
IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Frame Length	10.00 in	Shaft Diameter	1.626 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	SS620700	Connection Diagram	EE7300

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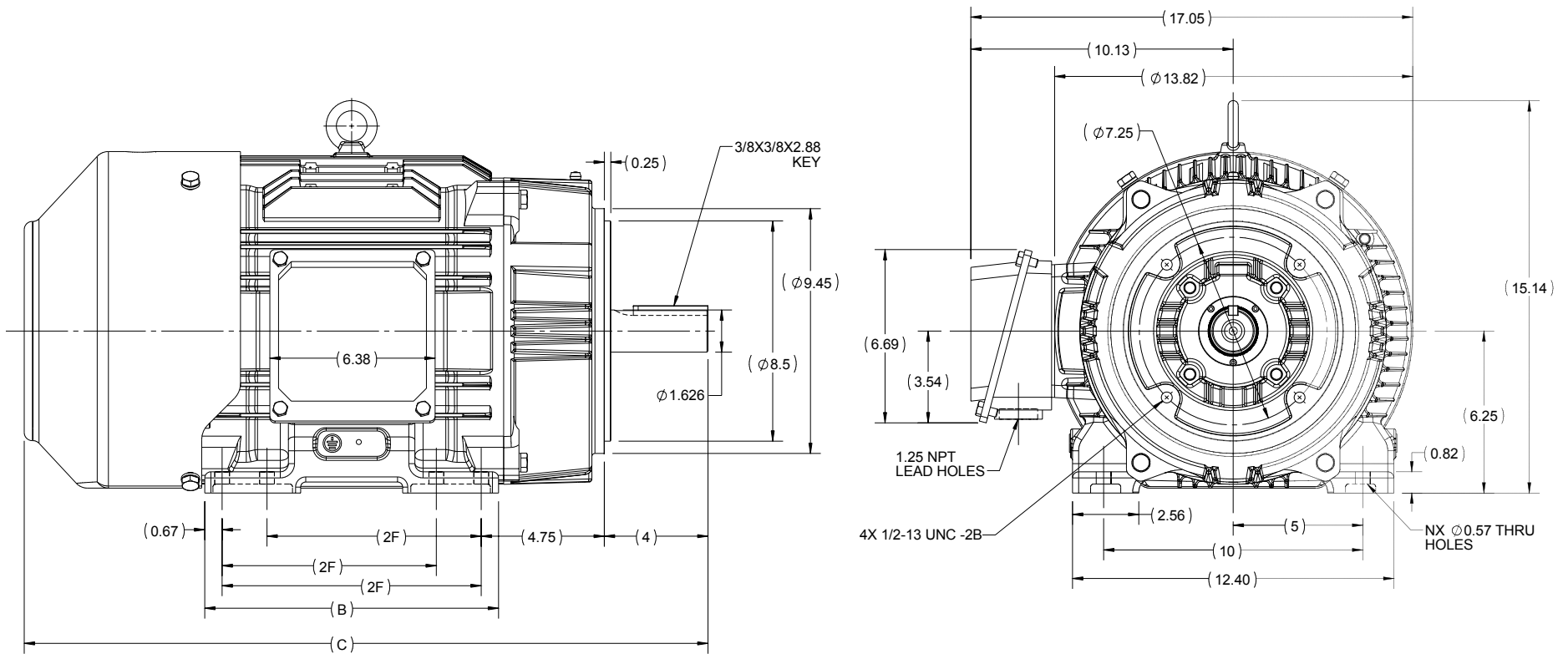
OUTLINE

B

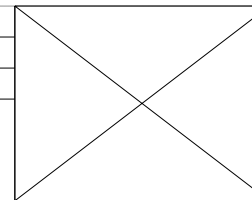
A

B

A



DRAWING REVISION A	REVISION BY UDAY	DATE 08/09/2015
ECO ECO-0084584	APPROVED BY SBD	DATE 08/09/2015
ECO DESCRIPTION NEW DRAWING RELEASE		
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DRAWN BY SMAR
DATE 06/07/2015
APPROVED BY SBD
DATE 06/07/2015
REFERENCE

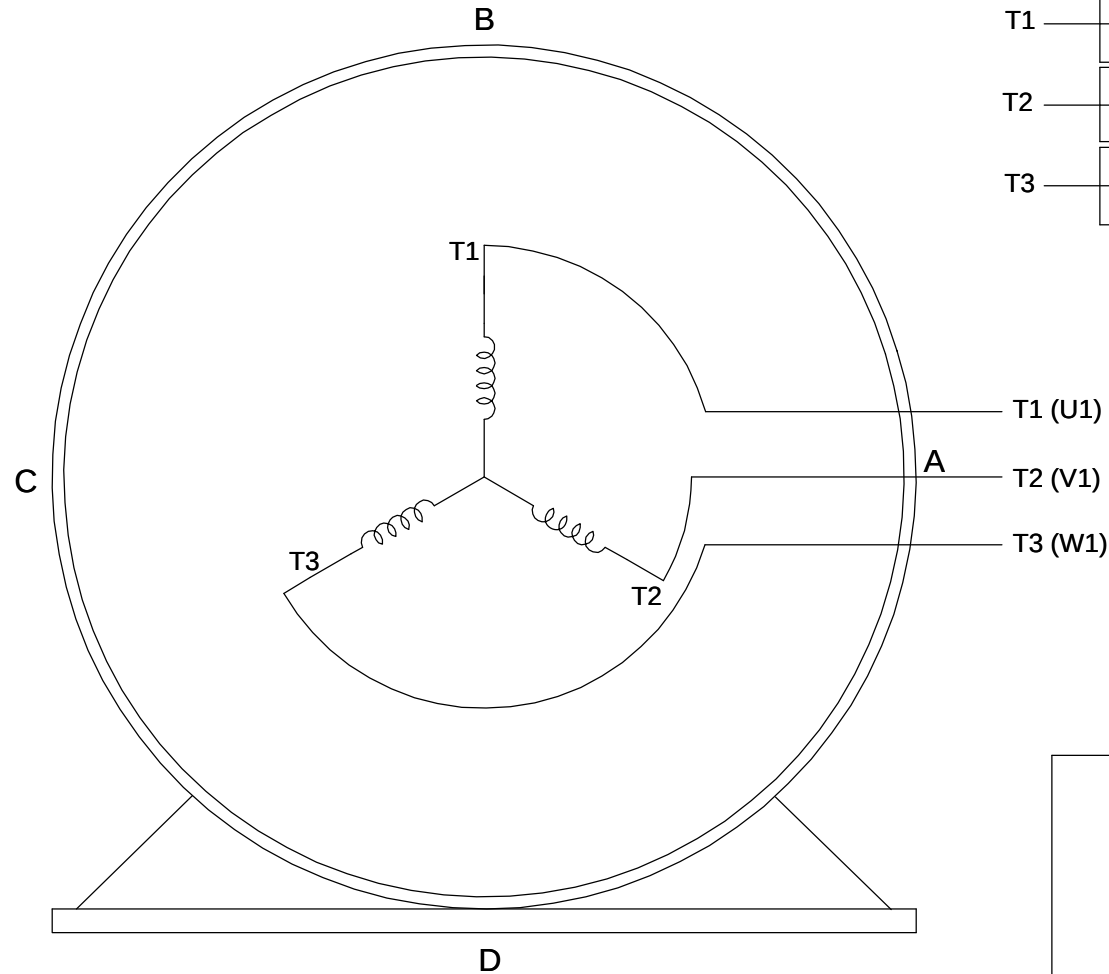
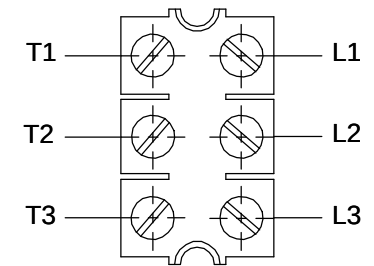
REGAL-BELOIT CORPORATION	
DESCRIPTION	
OUTLINE	
254/256TC FR-TEFC-CAST IRON	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS620700
SHEET 1 OF 1	

256TC	11.34	26.39	10	8
254TC	9.60	24.65	8.25	4
FRAME	B	C	2F	N

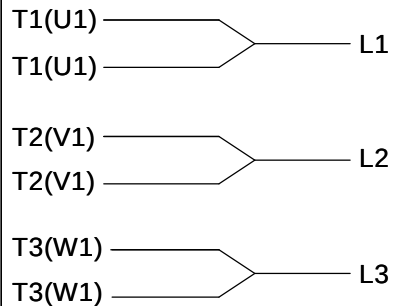
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.

TERMINAL BLOCK WHEN SPECIFIED



IF MOTOR HAS
6 LEADS



A-9806 DECAL

OPTIONAL CORD
CONNECTION



VIEW OF TERMINAL END

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**

CERTIFICATION DATA SHEET

CUSTOMER:

CUSTOMER PO #:

ORDER #:

MODEL #: 254TTFC6007 AA

CONN. DIAGRAM: EE7300

CUSTOMER PART

#:

OUTLINE: SS620700

MOUNTING: F1/F2 CAPABLE

WINDING #: HE31602008 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN		
15	11.2	3600	3545	254TC	TEFC	G	B		
PH	HZ	VOLTS	AMPS	START TYPE		DUTY	INSL	S.F.	AMB°C
3	60	575	14.3	LINE OR INVERTER		CONTINUOUS	F7	1.15	40

FULL LOAD EFF:	91	3/4 LOAD EFF:	91	1/2 LOAD EFF:	90.6	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	87	3/4 LOAD PF:	83.5	1/2 LOAD PF:	75	90.2	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.2 LB-FT	91.2	37 LB-FT 167 %	60 LB-FT 270 %	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
72 DBA	82 DBA	1.2 LB-FT^2	22 LB-FT^2	20 SEC.	2	375 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	D RIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	DIVISION 2 T2B	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
6309	6209						

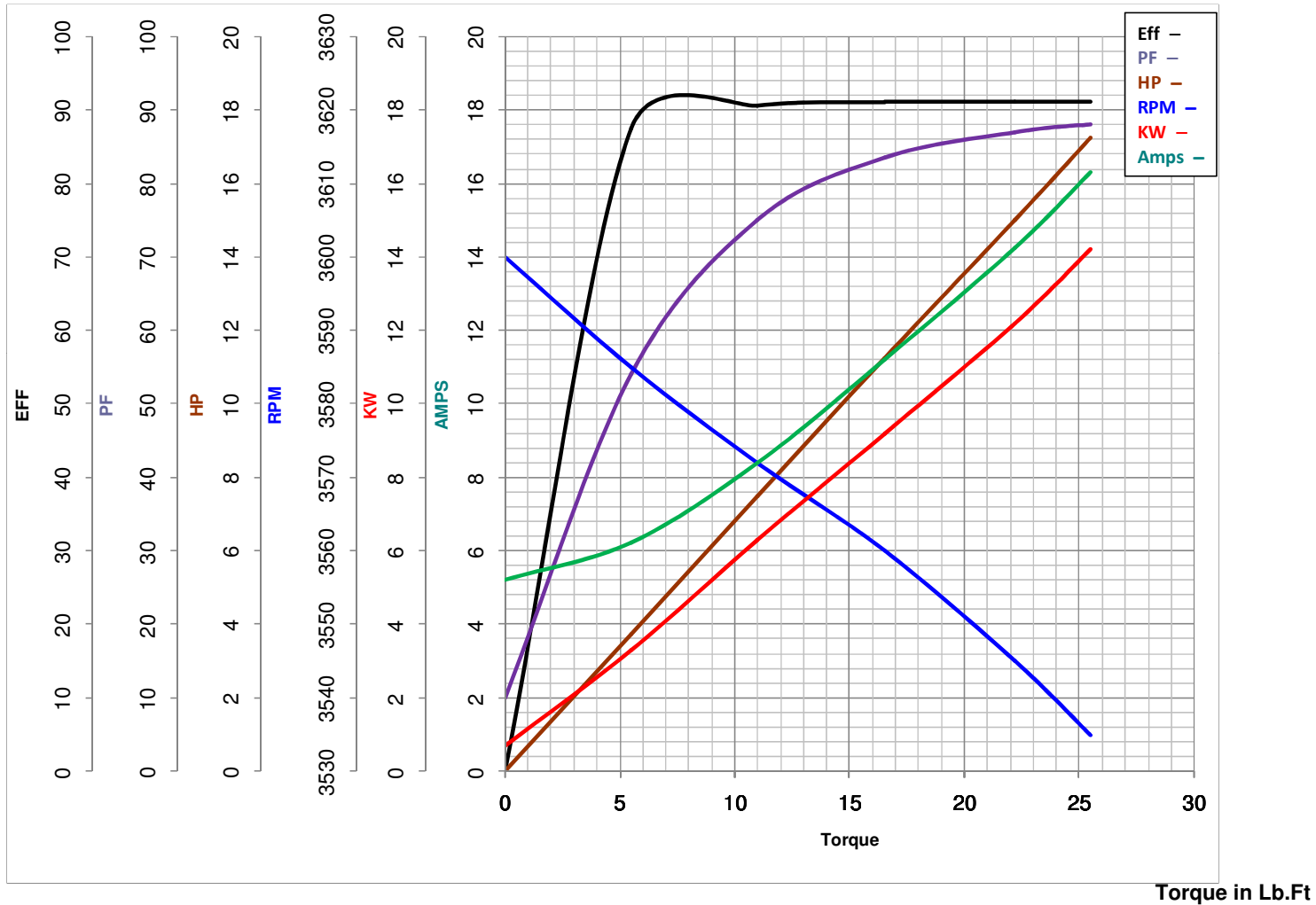
THERMO-PROTECTORS					THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs				
NONE	NOT	NONE	NONE	NONE	FALSE	NONE	VOLTS

INVERTER								
TORQUE: CONSTANT 20:1/VARIABLE 20:1								
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								

PREPARED BY: Anusha Muthyala
DATE: 05/04/2018 12:12:46 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer**Curve at**575**Volts****HP** 15.00**PHASE** 3**Model No** 254TTFCD600760**HZ****VOLTS** 57515**HP****HZ** 60**RPM** 3545**Catalog No** GT1421A

Torque in Lb.Ft

FL TORQUE 22.2 **Lb.Ft****BD TORQUE** 60.0 **Lb.Ft****LR TORQUE** 37 **Lb.Ft****FL AMPS** 14.3**PU TORQUE** 31.5 **Lb.Ft****LR AMPS** 91.2**WINDING** HE31602008-3**Prepared By**

ANUSHA M

Date

5/4/2018