

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 284TSTFCD6026
Catalog No: GT1057
25,1800,TEFC,284TS,3/60/230/460
Totally Enclosed Fan Cooled (TEFC)



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

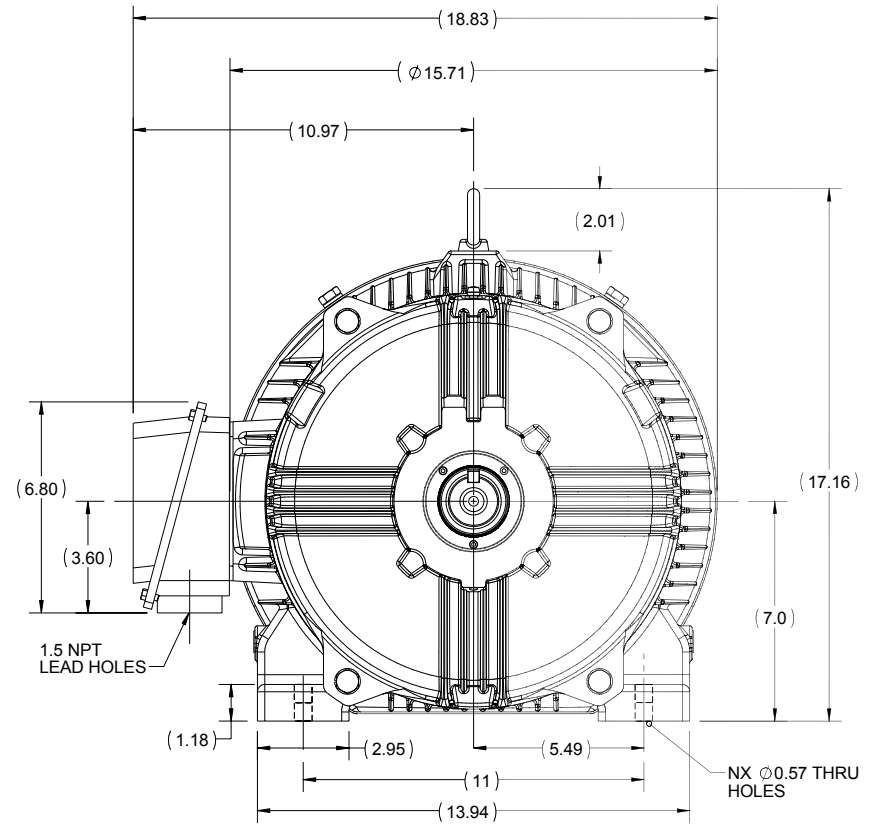
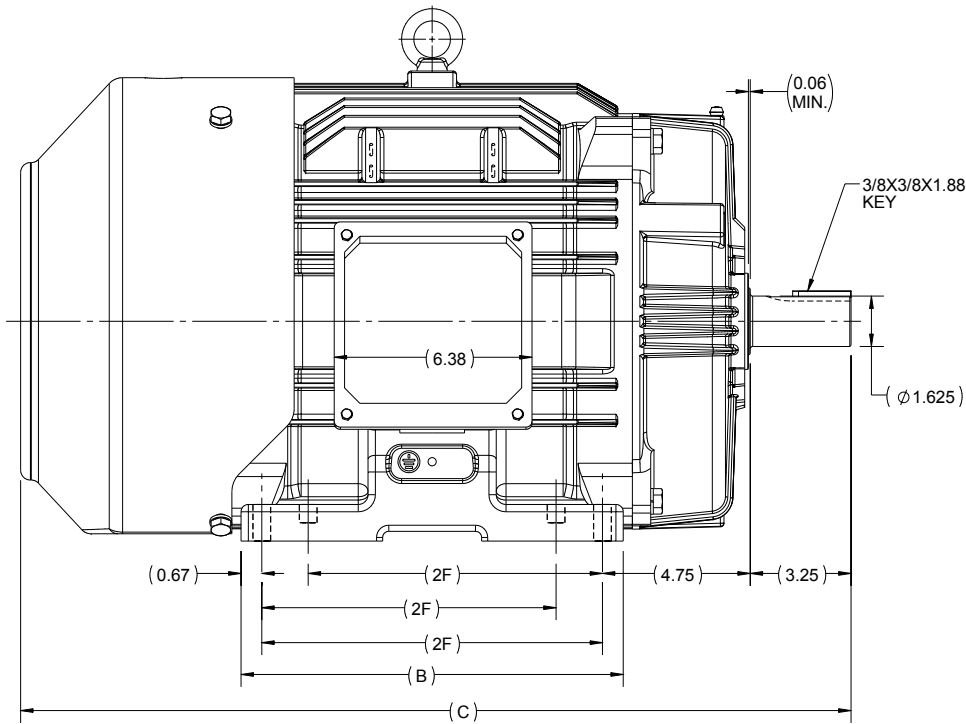
Output HP	25 Hp	Output KW	18.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	61.0/30.5 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	284TS
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6311
Opp Drive End Bearing Size	6211	UL	Listed
CSA	Y	CE	Y
IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run 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	TS
Frame Length	11.41 in	Shaft Diameter	1.625 in
Shaft Extension	3.25 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	SS620698-284	Connection Diagram	EE7308AA

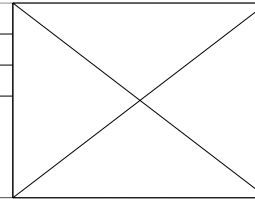
This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 07/02/2018

OUTLINE



286	12.32	26.77	11	8
284	10.82	25.28	9.5	4
FRAME	B	C	2F	N

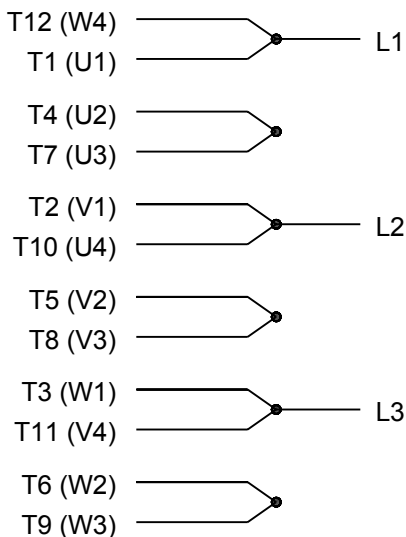
DRAWING REVISION A	REVISION BY UDAY	DATE 08/09/2015
ECO ECO-0084584	APPROVED BY SBD	DATE 08/09/2015
ECO DESCRIPTION NEW DRAWING RELEASE		
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") 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.		



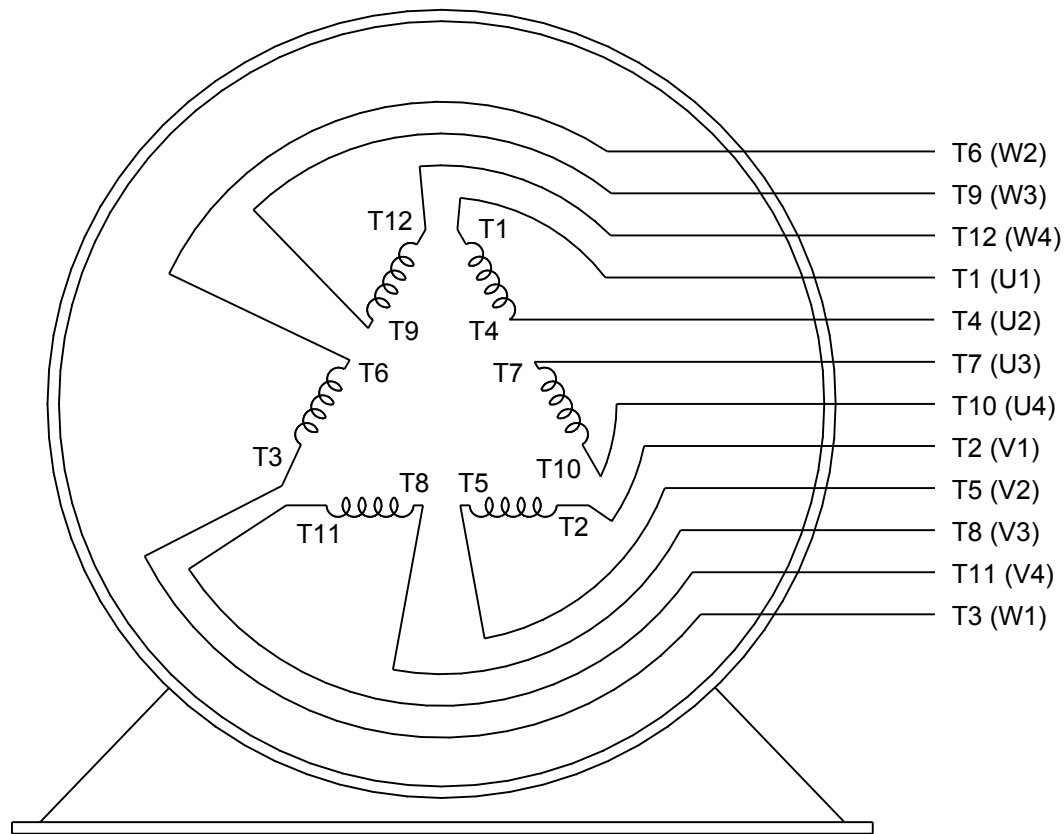
DRAWN BY SMAR	 REGAL-BELOIT CORPORATION
DATE 07/07/2015	
APPROVED BY SBD	
DATE 07/07/2015	
REFERENCE	DESCRIPTION OUTLINE 284/286TS FR-TEFC-CAST IRON
THIRD ANGLE PROJECTION	MATERIAL PROCESS/FINISH
SIZE B	DRAWING NUMBER SS620698
	SHEET 1 OF 1



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION K	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8		
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.		

DRAWN BY LZ	 Regal Beloit America, Inc.	
DATE 01-12-1994		
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS	
DATE 01-14-1994		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7308AA
		SHEET 1 OF 1



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

CERTIFICATION DATA SHEET

CUSTOMER PO #:

CUSTOMER:
ORDER #:

MODEL #: 284TSTFCD6026 **AA**

CONN. DIAGRAM: EE7308AA

CUSTOMER PART

#:

OUTLINE: SS620698-284

MOUNTING: F1/F2 CAPABLE

WINDING #: HE31804007 **2**

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
25820	18.7&14.9	1800	1775&1476	284TS	TEFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	61/30.5860/30	Y START D RUN OR INV	CONTINUOUS	F7	1.15/1.15	40

FULL LOAD EFF:		93.6&93	3/4 LOAD EFF:	93.6	1/2 LOAD EFF:	93	GTD. EFF		ELEC. TYPE
FULL LOAD PF:		83&81.5	3/4 LOAD PF:	77.5	1/2 LOAD PF:	66.5	93	SQ CAGE INV RATED	

F.L. TORQUE		LOCKED ROTOR AMPS	L.R. TORQUE		B.D. TORQUE		F.L. RISE°C		
74	LB-FT	364 / 182	144	LB-FT	195 %	192	LB-FT	260 %	55

SOUND PRESSURE @ 3 FT.		SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT					
75	DBA	85	DBA	5.2	LB-FT^2	175	LB-FT^2	20	SEC.	2	575	LBS.

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

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

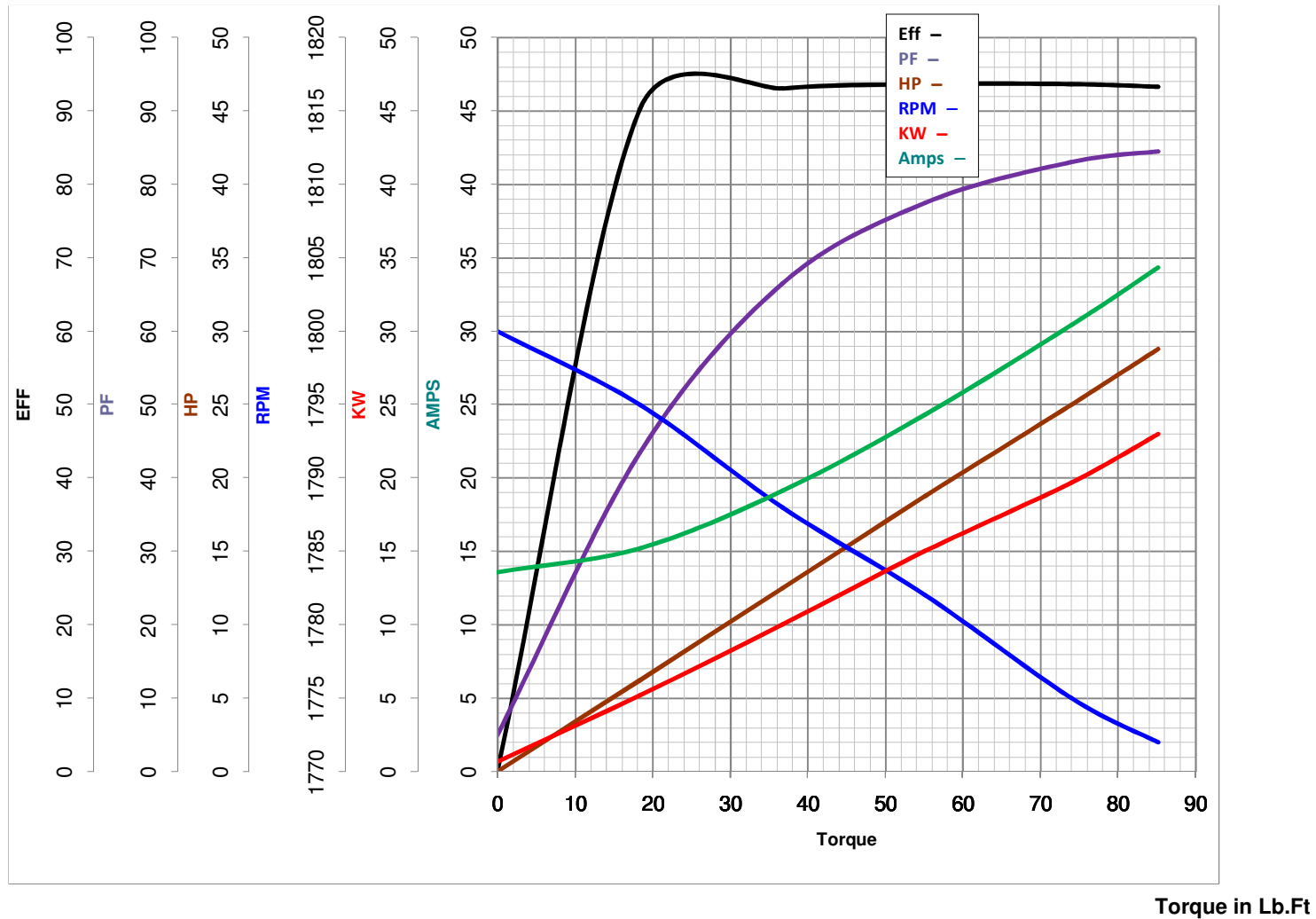
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL						
6311	6211	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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									
	BRAKE: NONE									
	NONE									
	P/N NONE									
	NONE									
	NONE									
	NONE									
	FT-LB									
	NONE									
	V									
	Hz									

MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer**Curve at**460**Volts****HP** 25&20**PHASE** 3**Model No** 284TSTFCD602660**HZ**25**HP****VOLTS** 230/460&190/380**Catalog No** GT1057**HZ** 60&50**RPM** 1775&1476

FL TORQUE 74 Lb.Ft
BD TORQUE 192.0 Lb.Ft
LR TORQUE 144 Lb.Ft

FL AMPS 61/30.5
PU TORQUE 122.0 Lb.Ft
LR AMPS 182

WINDING HE31804007-2**Prepared By**

CHANDANA

Date 5/4/2018