

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 284TTFCD6028
Catalog No: GT1228A
25,1800,TEFC,284TC,3/60/230/460
Totally Enclosed Fan Cooled (TEFC)



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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	284TC
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	T
Frame Length	11.41 in	Shaft Diameter	1.875 in
Shaft Extension	4.62 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	SS620701	Connection Diagram	EE7308AA

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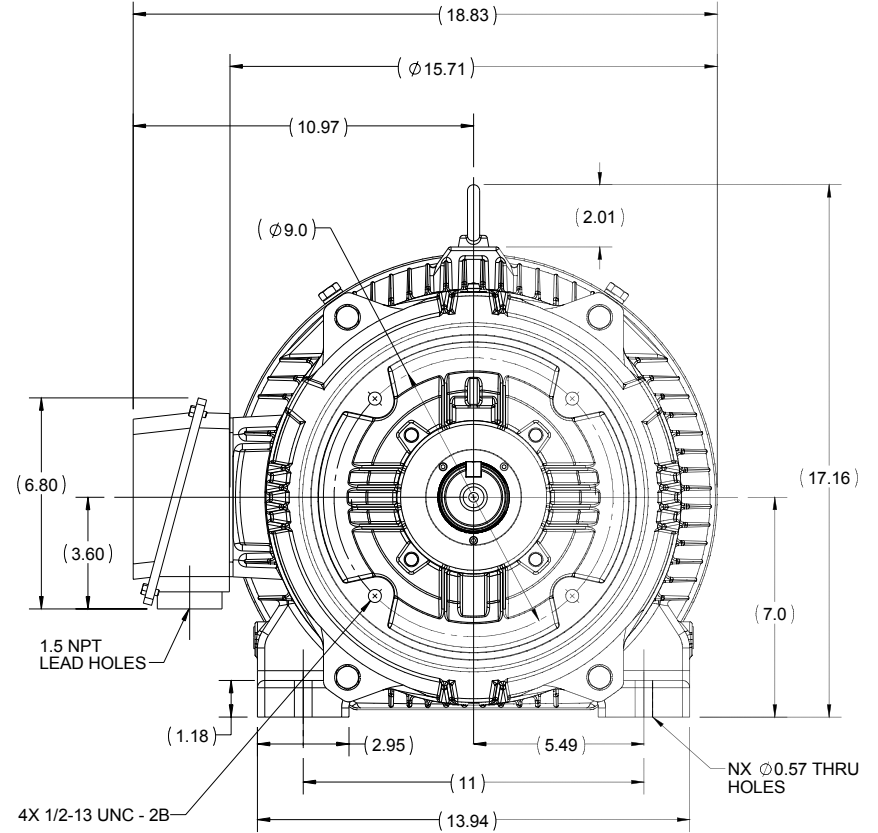
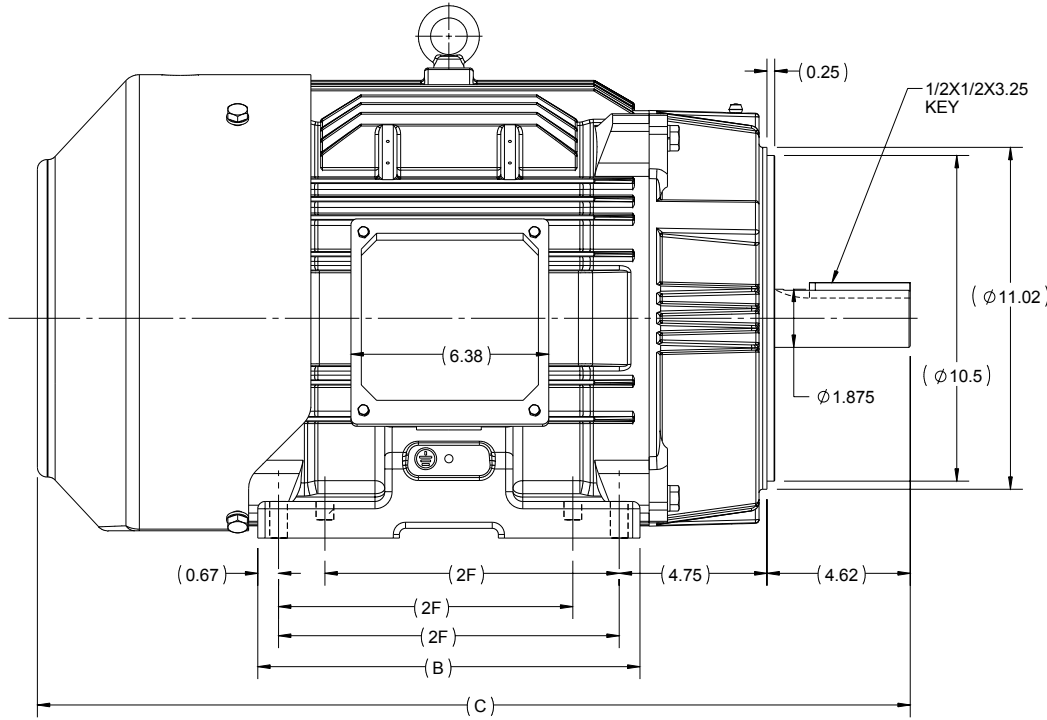
OUTLINE

B

B

A

A



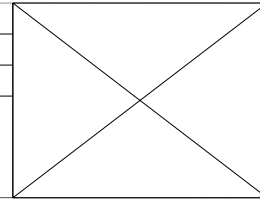
286	12.32	28.14	11	8
284	10.82	26.65	9.5	4
FRAME	B	C	2F	N

4

DRAWING REVISION A	REVISION BY UDAY	DATE 08/09/2015
ECO ECO-0084584	APPROVED BY SBD	DATE 08/09/2015
ECO DESCRIPTION		

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DRAWN BY SMAR
DATE 06/07/2015
APPROVED BY SBD
DATE 06/07/2015
REFERENCE

THIRD ANGLE
PROJECTION

REGAL-BELOIT CORPORATION

DESCRIPTION OUTLINE 284/286TC FR-TEFC-CAST IRON	PROCESS/FINISH
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MATERIAL	DRAWING NUMBER SS620701	SHEET 1 OF 1
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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		
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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: CUSTOMER PO #:
ORDER #: MODEL #: 284TTFCDD6028 AA
CONN. DIAGRAM: EE7308AA CUSTOMER PART #:
OUTLINE: SS620701 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	284TC	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	93	ELEC. TYPE
FULL LOAD PF:	83&81.5	3/4 LOAD PF:	77.5	1/2 LOAD PF:	66.5	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	DRIP 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	

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

INVERTER
TORQUE: CONSTANT 20:1/VARIABLE 20:1
INV. HP SPEED RANGE: NONE

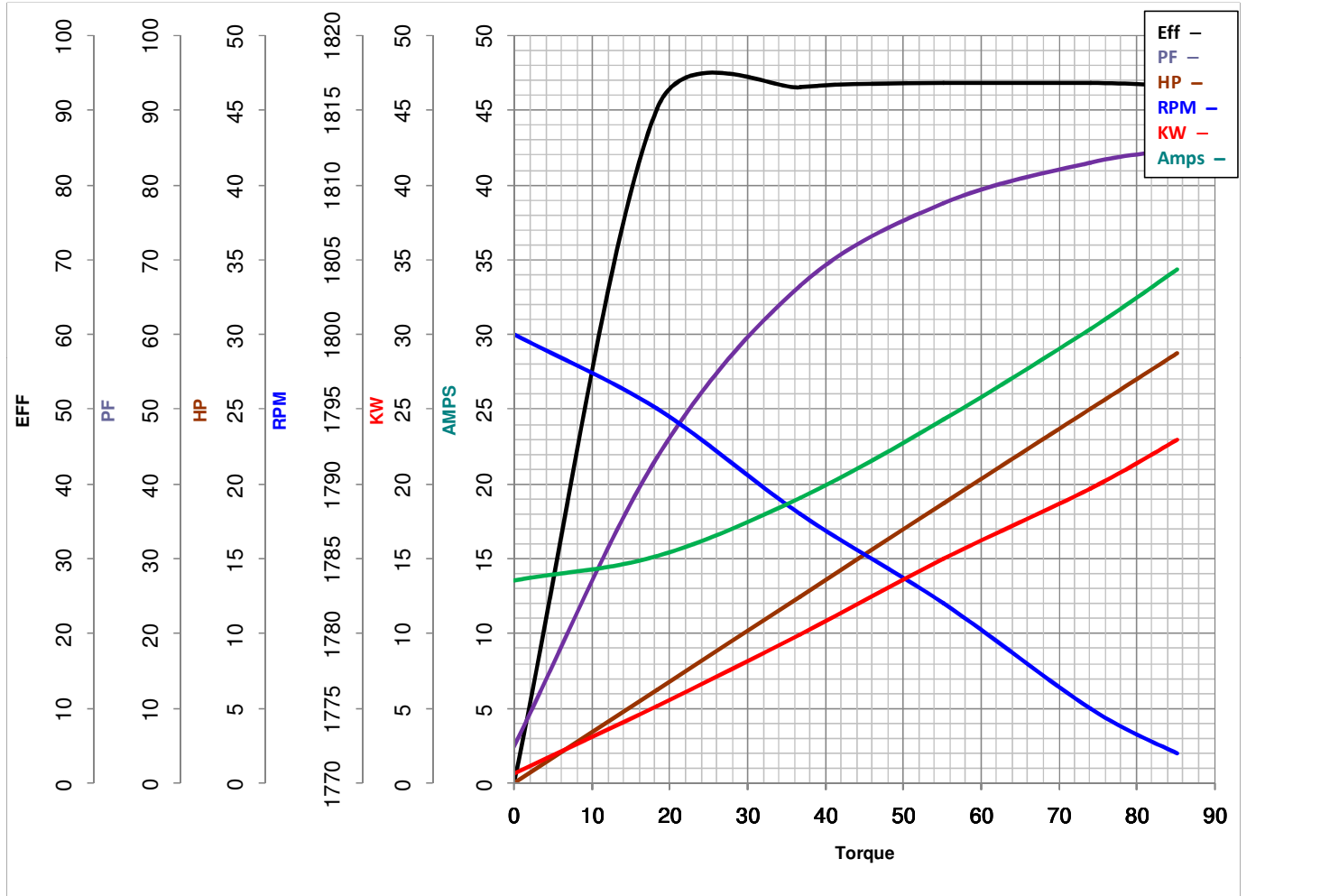
ENCODER: NONE
 NONE NONE
 NONE NONE PPR
BRAKE: NONE NONE
 NONE P/N NONE
 NONE NONE
 NONE FT-LB NONE V NONE HZ

PREPARED BY: Anusha Muthyala
DATE: 05/04/2018 02:20:10 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 460 Volts HP 25&20 PHASE 3
 Model No 284TTFC6028 60 HZ
25 HP VOLTS 230/460&190/380
 Catalog No GT1228A HZ 60&50 RPM 1775&1476



FL TORQUE	<u>74</u>	Lb.Ft	FL AMPS	<u>61/30.5</u>
BD TORQUE	<u>192.0</u>	Lb.Ft	PU TORQUE	<u>122.0</u> Lb.Ft
LR TORQUE	<u>144</u>	Lb.Ft	LR AMPS	<u>182</u>
WINDING	HE31804007-2	Prepared By	ANUSHA M	Date
				5/4/2018