

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 284TTFNA16129
Catalog No: U655A
25,1800,TEFC,284T,3/60/200
Totally Enclosed Fan Cooled (TEFC)



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REGAL

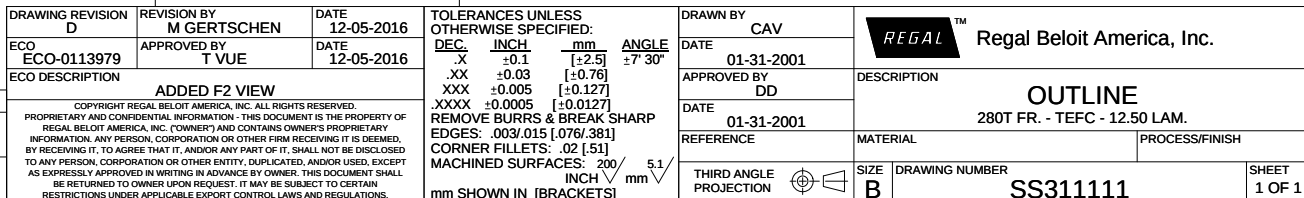


Nameplate Specifications

Output HP	25 Hp	Output KW	18.7 kW
Frequency	60 Hz	Voltage	200 V
Current	72.5 A	Speed	1770 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	284T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6311
Opp Drive End Bearing Size	6210	UL	Recognized
CSA	Y	CE	Y
IP Code	43		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
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	26.66 in	Frame Length	12.76 in
Shaft Diameter	1.875 in	Shaft Extension	4.82 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS311111-1275	Connection Diagram	A-EE7300

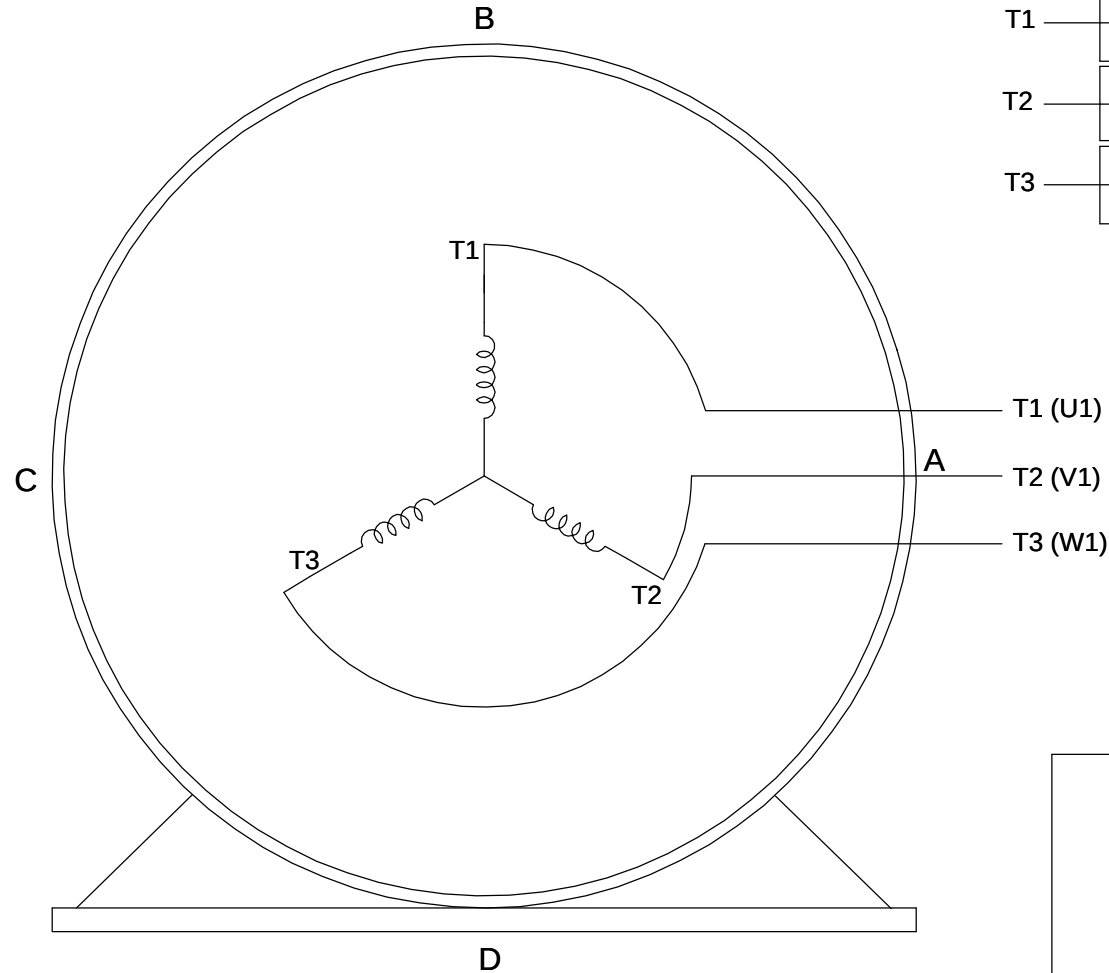
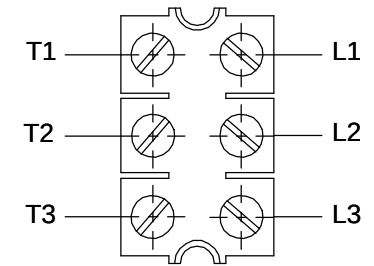


DASH	FRAME	B	C	2F	2FF	BS
1275	284T	12.50 [317.50]	26.66 [677.16]	---	9.50 [241.30]	4.75 [120.65]
1425	284/ 286T	13.00 [330.20]	28.16 [715.26]	9.50 [241.30]	11.00 [279.40]	5.50 [139.70]

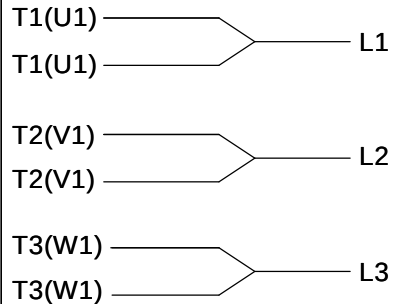
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.

TERMINAL BLOCK WHEN SPECIFIED

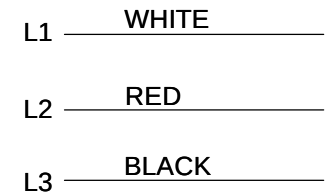


IF MOTOR HAS
6 LEADS



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:		CUSTOMER P.O. #:	
ORDER #:		REFERENCE MODEL #:	284TTNVA16129
CONN. DIAGRAM:	A-EE7300	CAT #:	U655A
OUTLINE:	B-SS311111-1275	CUSTOMER PART #:	
WINDING:	K2844178	NONE	4
SPEED:		MOUNTING:	F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN					
25	18.7	1800	1770	284T	TEFC	TFN	G	B					
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.				
3	60	200	72.5	ACROSS THE LINE	CONT	F	1.15	40	3300				
F.L. EFF		93.6	3/4 LD EFF		93.6	1/2 LD EFF		92.4	GTD EFF	ELECT. TYPE			
F.L. PF		81.0	3/4 LD PF		76.0	1/2 LD PF		65.0	93.0	SQ CAGE IND RUN			
F.L. TORQUE		LR AMPS @ 460 V			L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)				
74.0 LB-FT		419			135 LB-FT		182%		180 LB-FT		243%	70	
@ 3 FT.		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME		STARTS/HOUR		MOTOR WGT	
65 dbA		74 dbA		4.0 LB-FT²		175 LB-FT²		50 SEC.		2		440 LB.	

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE ODE	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON	
6311	6210							
THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS		
NONE	NOT	NONE	NONE	NONE	FALSE	NA		
R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT		
0.036	0.028	0.167	0.204	3.685	0.150	ODE		
* N O T E S								
INVERTER TORQUE: NONE								
INV. HP SPEED RANGE: NONE								
ENCODER: NONE								
NONE								
NONE								
BRAKE: NONE								
NONE								
FT-LB: NA								
VOLTAGE: NONE								
HZ:								

PREPARED BY: FAREEDA DUDEKULA	UL: V/INS, CONST UL REC
DATE: 9/10/2018	

Data Sheet

Date: 9/10/2018

Customer:

Attention:

Submitted by:

FAREEDA DUDEKULA



284TTFNA16129

Submittal

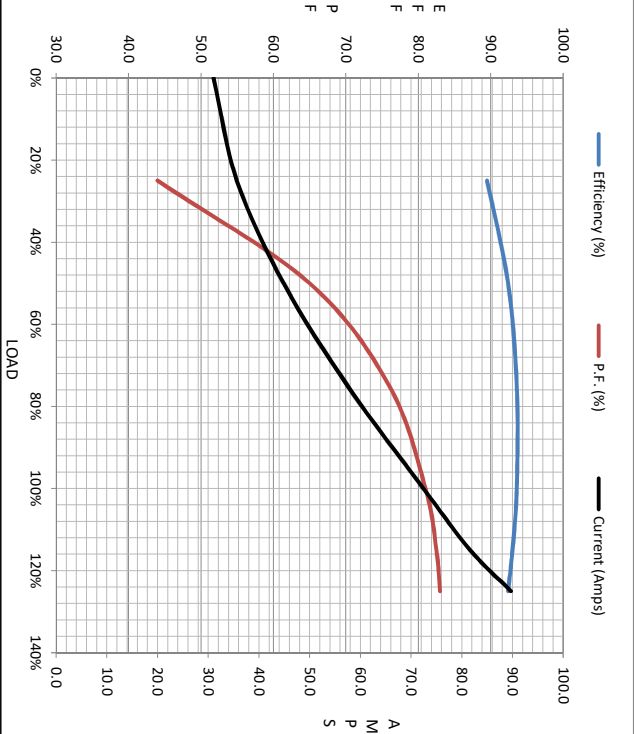
Data @ 200 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	31.1	35.7	44.9	57.5	72.5	81.7	89.7	419
Torque (ft-lb)	0.00	18.3	37.0	55.5	74.0	85.5	93.0	135
RPM	1800	1793	1786	1778	1770	1,765	1762	0
Efficiency (%)		89.5	92.4	93.6	93.6	93.0	92.4	
P.F. (%)	4.0	44.0	65.0	76.0	81.0	82.5	83.0	33.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block
Speed (RPM)	0	900	1675	1770	1800	
Current (Amps)	419	389	242	72.5	31.1	
Torque (ft-lb)	135	117	180	74.0	0.00	
	HP					25.0
	Sync. RPM					1800



HP	25.0
Sync. RPM	1800
Frame	284364TTF6081
Enclosure	TEFC
Construction	TFN
Voltage	200 V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	70 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Rotor/Shaft wk²	4.0 Lb-Ft²
Ref Wdg	K2844178 NONE
Sound Pressure @ 1M	65 dBA
VFD Rating	NONE
Outline Dwg	B-SS311111-1275
Conn. Diag	A-EE7300
Additional Specifications:	
0	
0	
EQUIV CKT (OHMS / PHASE)	
R1	R2
0.0360	0.0280
X1	X2
0.1670	0.2040
Xm	3.6850

Speed - Torque Curve

