

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 447TSTFCD6005
Catalog No: GT1154A
200,3600,TEFC,447TS,3/60/575
Totally Enclosed Fan Cooled (TEFC)



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REGAL



Nameplate Specifications

Output HP	200 Hp	Output KW	149.0 kW
Frequency	60 Hz	Voltage	575 V
Current	174.0 A	Speed	3580 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	447TS
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6314
Opp Drive End Bearing Size	6314	UL	Listed
CSA	Y	CE	Y
IP Code	55		

Technical Specifications

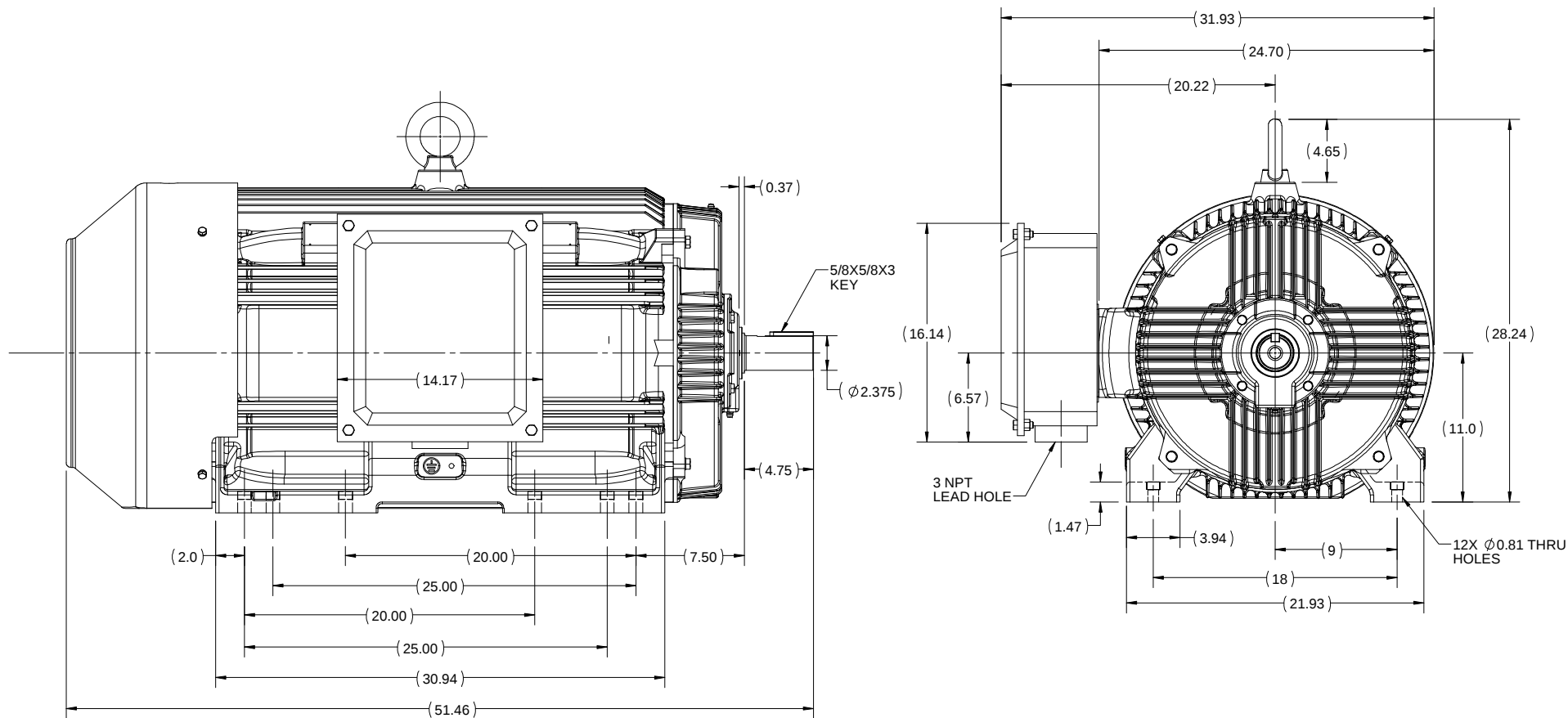
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	TS
Frame Length	32.12 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	SS557012	Connection Diagram	EE7300

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OUTLINE

B

B



A

A

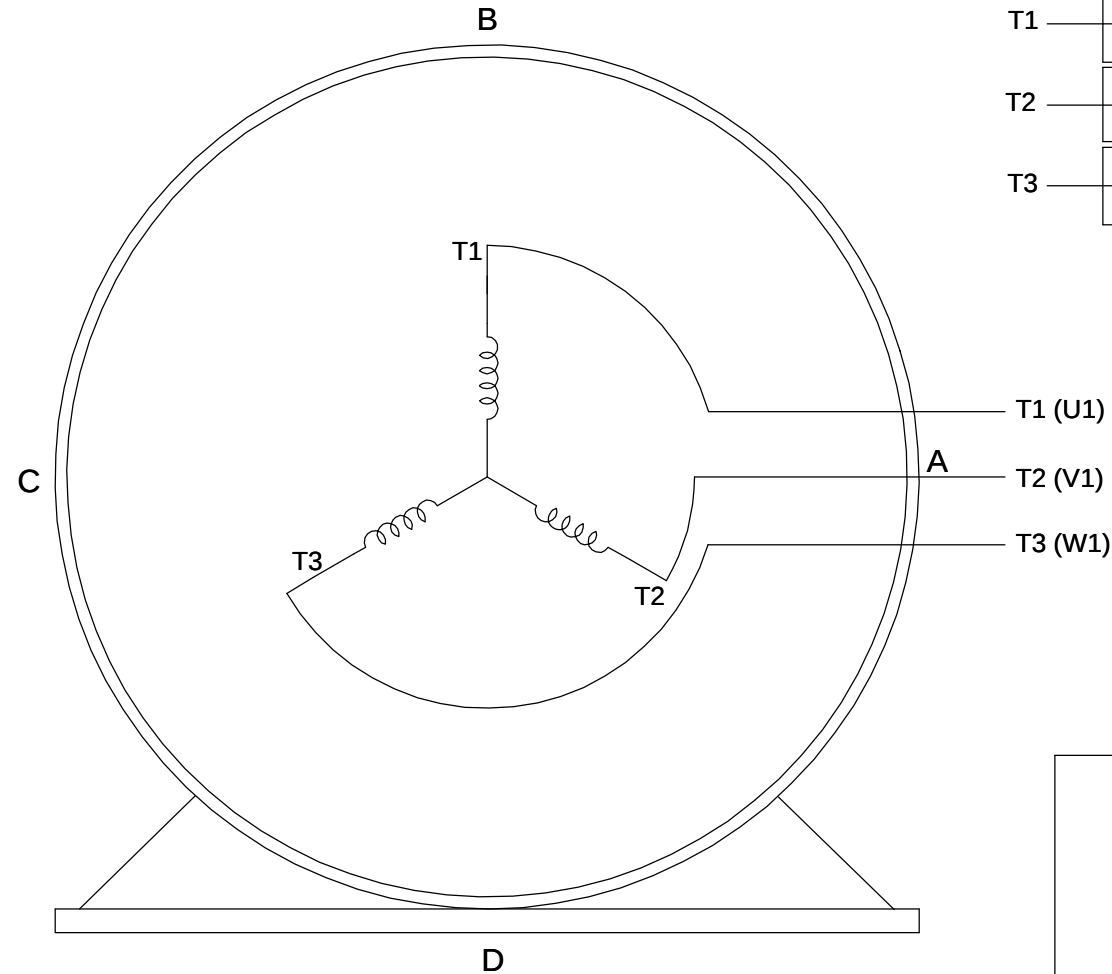
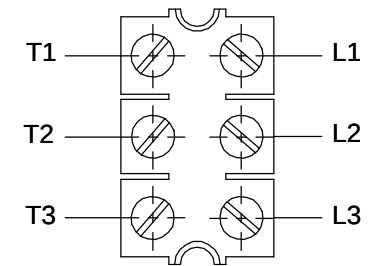
DRAWING REVISION C	REVISION BY GNK	DATE 09/05/2018
ECO ECO-0143704	APPROVED BY SBD	DATE 09/05/2018
ECO DESCRIPTION DRAWING UPDATED		
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DRAWN BY NIV	 Regal Beloit America, Inc.	
DATE 23/05/2016		
APPROVED BY SBD	DESCRIPTION OUTLINE 447/449T FR-TEFC	
DATE 23/05/2016		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS557012
		SHEET 1 OF 1

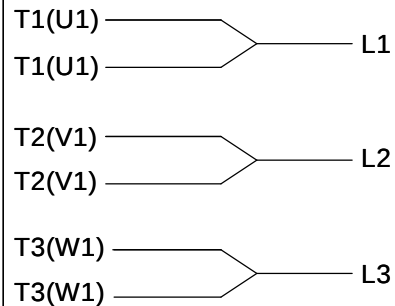
THREE PHASE - SINGLE VOLTAGE MOTOR - CONDUIT BOX @ 'A'

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:

ORDER #:

CONN. DIAGRAM: EE7300

OUTLINE: SS557012

WINDING: HE32802008

SPEED:

CUSTOMER P.O. #:

REFERENCE MODEL #: 447TSIFC06005

CAT #: GT1154A

CUSTOMER PART #:

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN				
200	149	3600	3580	447TS	TEFC	TFC	G	B				
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.			
3	60	575	174	LINE OR INVERTER	CONT	F	1.15	40	3300			
F.L. EFF		95.4	3/4 LD EFF	95.4	1/2 LD EFF	94.5	GTD EFF		ELECT. TYPE			
F.L. PF		90.5	3/4 LD PF	89.0	1/2 LD PF	84.2	95.0		SO CAGE INV RATED			
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)				
294	LB-FT	1,160		512	LB-FT	174%	821	LB-FT	279%	70		
@ 3 FT.		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME		STARTS/HOUR	MOTOR WGT	
82	dba	91	dba	51.0	LB-FT²	0	LB-FT²	15	SEC.	0	2775	LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIIP COVER	SCREENS	PAIN
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	DIVISION 272B	NO	NONE	BLUE - MARATHON
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE ODE	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON	
6314	6314							
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		
0.016	0.011	0.131	0.209	7.743	0.080	ODE		
* N O T E S								
INVERTER TORQUE: VARIABLE 10:1								
INV. HP SPEED RANGE: NONE								
ENCODER: NONE								
BRAKE: NONE								
FT-LB: NONE								
VOLTAGE: NONE								
H.Z:								

PREPARED BY: FAREEDA DUDEKULA

DATE: 5/3/2018

UL: NO LETTER - ME, WUXI TEFC BLUEWHALE CLASS 1 DIV. 2 UL 1

Data Sheet

4471STFCDB005

Date: 5/3/2018

Customer:
Attention:

Submitted by: FAREEDA DUDEKULA



Submital

Data @ 575 V

Motor Load Data

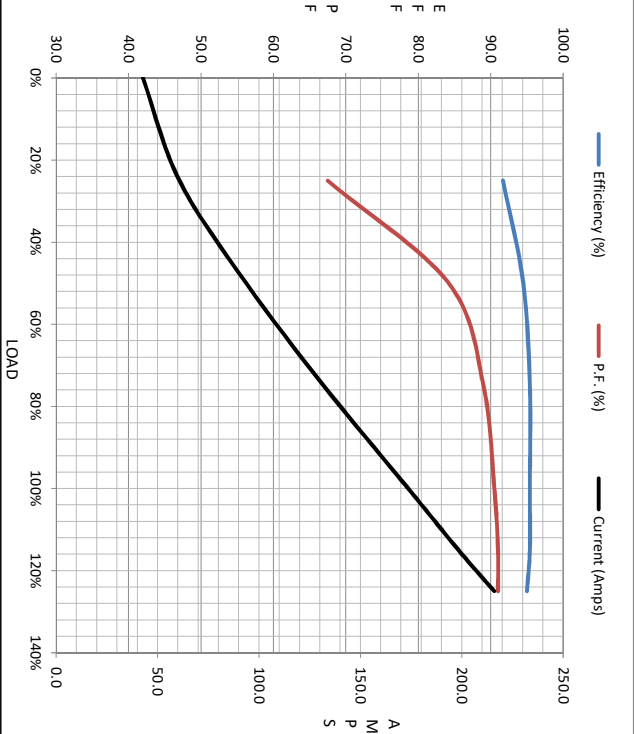
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	42.8	60.8	93.8	132	174	198	216	1,160
Torque (ft-lb)	0.00	73.0	146	220	294	338	368	512
RPM	3600	3595	3590	3585	3580	3,578	3575	0
Efficiency (%)		91.7	94.5	95.4	95.4	95.4	95.0	
P.F. (%)	8.0	67.5	84.2	89.0	90.5	91.0	91.0	29.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1200	3478	3580	3600
Current (Amps)	1,160	1,010	686	174	42.8
Torque (ft-lb)	512	420	821	294	0.00

Information Block

HP	200.0			
Sync. RPM	3600			
Frame	4491821TFC06080			
Enclosure	TEFC			
Construction	TFC			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
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	51.0 Lb-Ft²			
Ref Wdg	HE32802008 NONE			
Sound Pressure @ 1M	82 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS557012			
Conn. Diag	EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0160	0.0110	0.1310	0.2090	7.7430



Speed - Torque Curve

