PRODUCT INFORMATION PACKET

Model No: 449TTDCD6076
Catalog No: GT0056A
200,1200,DP,449T,3/60/460
Open Drip Proof (ODP)

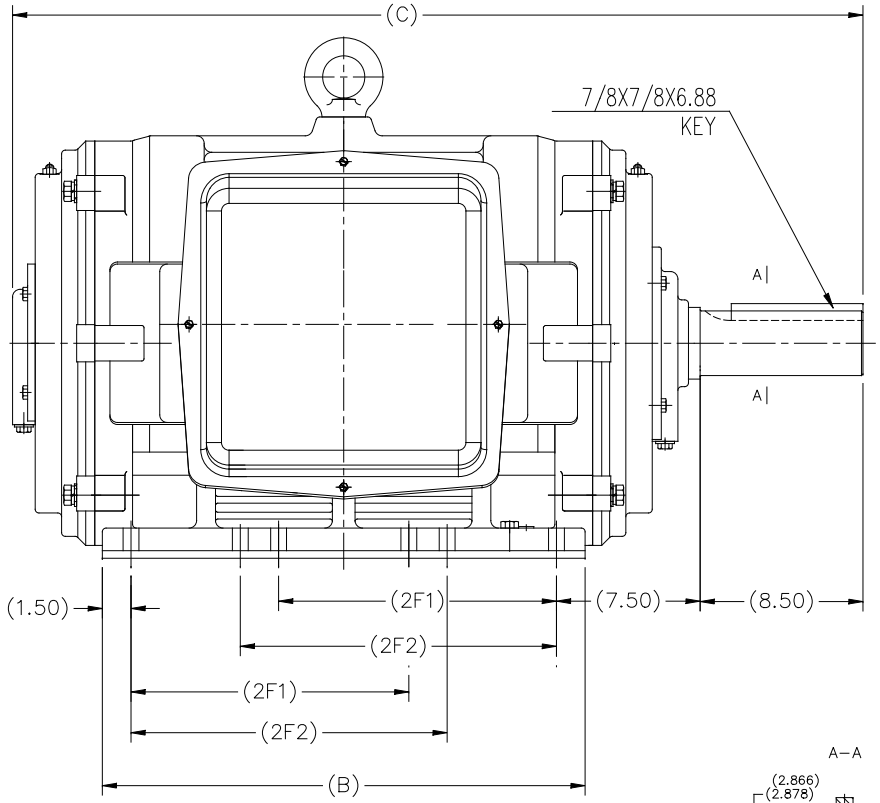
Nameplate Specifications

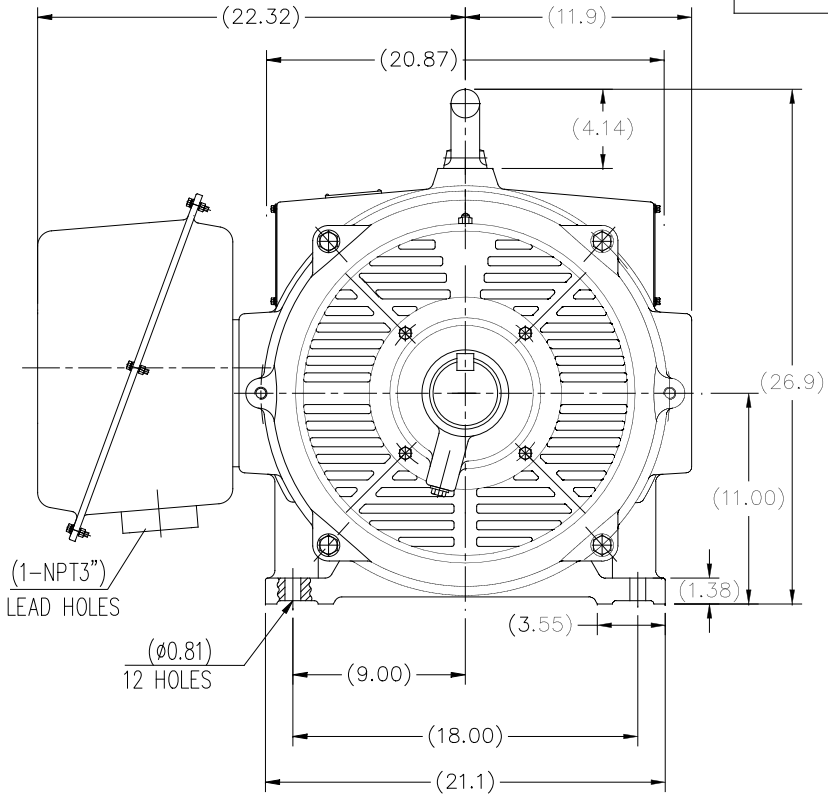
Output HP	**200 Hp**	Output KW	**149.0 kW**
Frequency	**60 Hz**	Voltage	**460 V**
Current	**230.0 A**	Speed	**1188 rpm**
Service Factor	**1.15**	Phase	**3**
Efficiency	**95.4 %**	Duty	**Continous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**F**	Frame	**449T**
Enclosure	**Drip Proof**	Overload Protector	**No**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**6319**
Opp Drive End Bearing Size	**6317**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**12**		

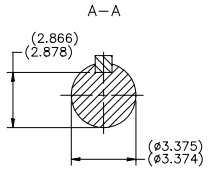
Technical Specifications

Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Part Wdg Start Or Inverter**
Poles	**6**	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	**31.10 in**	Shaft Diameter	**3.375 in**
Shaft Extension	**8.5 in**	Assembly/Box Mounting	**F1/F2 Capable**
Outline Drawing	**SS620758-449T**	Connection Diagram	**EE7341C**

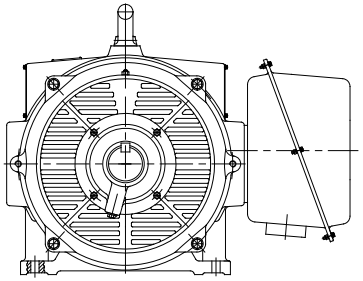
SS620758







F2 MOUNTING



Frame	C	B	2F1	2F2
444T 445T	44.57	25.2	14.5	16.5
447T 449T	49.69	30.31	20	25

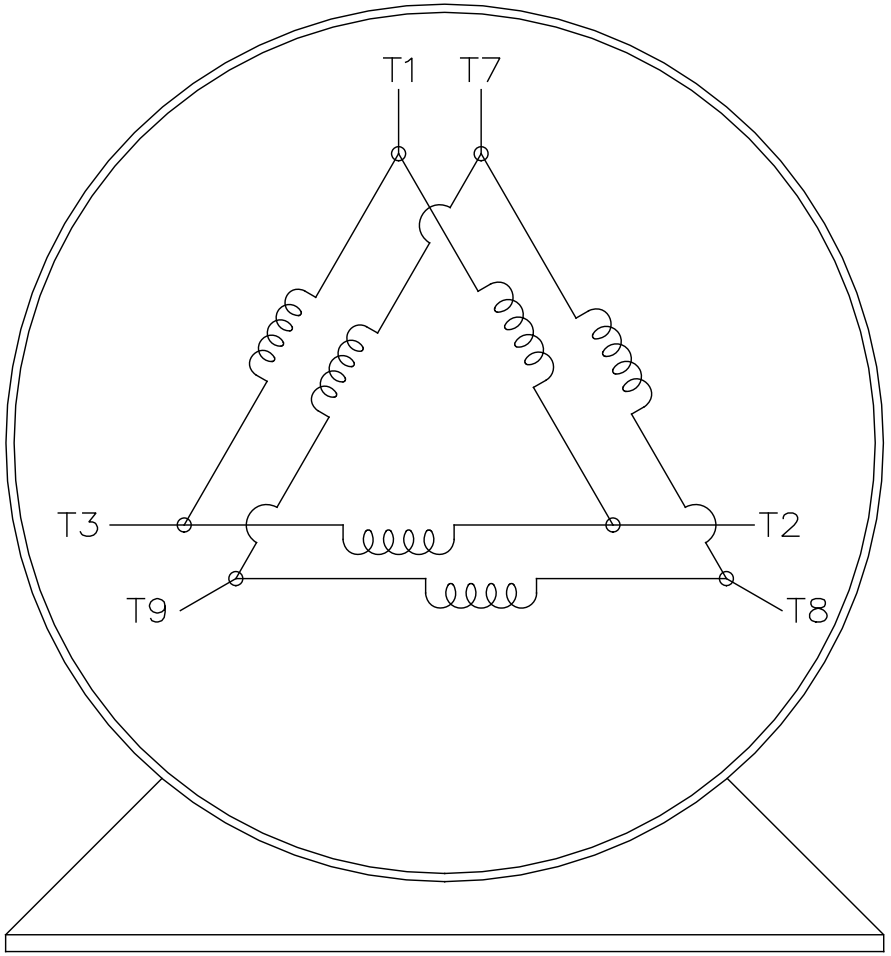
				TOLERANCES UNLESS SPECIFIED		REGAL REGAL-BELOIT CORPORATION		DRAWN ZXW 07–21–2016
				DEC.	INCHES			CHK
				.X	±.1			APPD
				.XX	±.03	TITLE OUTLINE		SCALE NONE
				.XXX	±.005	444/445/447/449T FR – ODP – CAST IRON		REF
				.XXXX	±.0005	MAT'L.		FMF WUXI
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH		PREV
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT			RFP			CAD FILE SS620758	SIZE B	DRAWING NO. SS620758 PAGE 1 OF 1 REV.
			DIST					

EE7341C

THREE PHASE – PART WINDING START
DELTA – 6 LEADS

START
CONNECT T1 TO LINE 1
CONNECT T2 TO LINE 2
CONNECT T3 TO LINE 3
T7–T8–T9 OPEN

RUN
CONNECT T1&T7 TO LINE 1
CONNECT T2&T8 TO LINE 2
CONNECT T3&T9 TO LINE 3



VIEW OF TERMINAL END

NO.	REVISION	BY & DATE	CHK
D	RE–DRAWN WITH REGAL LOGO ECO–0110493	WGJ 09–30–2016	EMH

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	± –
.XX	± –
.XXX	± –
.XXXX	± –
ANG	± –

REGAL - BELOIT CORPORATION

TITLE: CONNECTION DIAGRAM 3ø – 6 LEADS

DRAWN	BLR 03–09–1998
CHK	ML 03–23–1998
APPD	GK 03–23–1998
SCALE	1=1
REF	
FMF	
PREV	

MAT'L.

FINISH

RFP

DIST

CAD FILE EE7341C

SIZE	DRAWING NO.	PAGE OF	REV.
A	EE7341C		D

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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7341C
OUTLINE: SS620758
WINDING: HE32806017 NONE 1
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 449TTDCD6076
CAT #: GT0056A
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
200	149	1200	1188	449T	DP	TDC	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	230&210	PWS OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.8	1/2 LD EFF	95.4	GTD EFF	ELECT. TYPE
F.L. PF	85.5	3/4 LD PF	83.5	1/2 LD PF	77.0	95.0	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
884 LB-FT	1,350	1,635 LB-FT 185%	1,989 LB-FT 225%	50	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
78 dBA	87 dBA	122 LB-FT²	2600 LB-FT²	20 SEC.	2	2650 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 DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6319	BALL 6317	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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	0.012	0.112	0.203	3.791	0.080	ODE

* NOTES *

INVERTER TORQUE: VARIABLE 10:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE PPR

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE HZ:

PREPARED BY: FAREEDA DUDEKULA
DATE: 5/3/2018

FORM: 3531 REV_4 2/27/06

UL: V - LI,ME-INS,CONST UL REC

Data Sheet

Date: 5/3/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

449TTDCD6076

Submittal

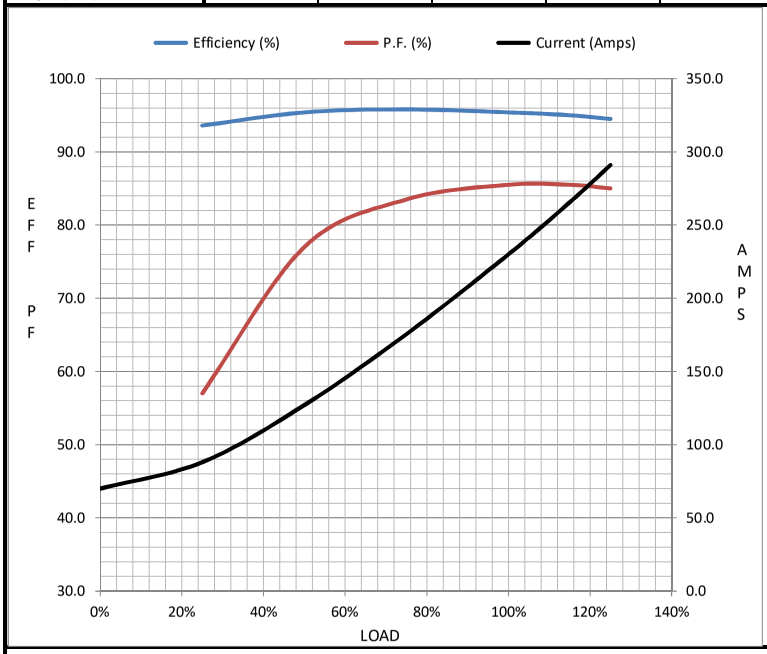
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	70.0	88.0	127	176	230	266	291	1,350	
Torque (ft-lb)	0.00	220	440	662	884	1,020	1,110	1,635	
RPM	1200	1196	1194	1190	1188	1,185	1182	0	
Efficiency (%)		93.6	95.4	95.8	95.4	95.0	94.5		
P.F. (%)	4.0	57.0	77.0	83.5	85.5	85.5	85.0	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1145	1188	1200
Current (Amps)	1,350	1,080	691	230	70.0
Torque (ft-lb)	1,635	1,372	1,989	884	0.00



Information Block

HP	200.0
Sync. RPM	1200
Frame	449182TTFC6080
Enclosure	DP
Construction	TDC
Voltage	460#380 V
Frequency	60 Hz
Design	B
LR Code letter	F
Service Factor	1.15
Temp Rise @ FL	50 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Rotor/Shaft wk²	122 Lb-Ft²
Ref Wdg	HE32806017 NONE
Sound Pressure @ 1M	78 dBA
VFD Rating	VARIABLE 10:1
Outline Dwg	SS620758
Conn. Diag	EE7341C
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0160	0.0120	0.1120	0.2030	3.7910

Speed -Torque Curve