PRODUCT INFORMATION PACKET

Model No: 284TSTDC6001
Catalog No: U772
General Purpose Motor, 30 & 30 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 200/400 V, 3600 & 3000 RPM, 284TS Frame, DP

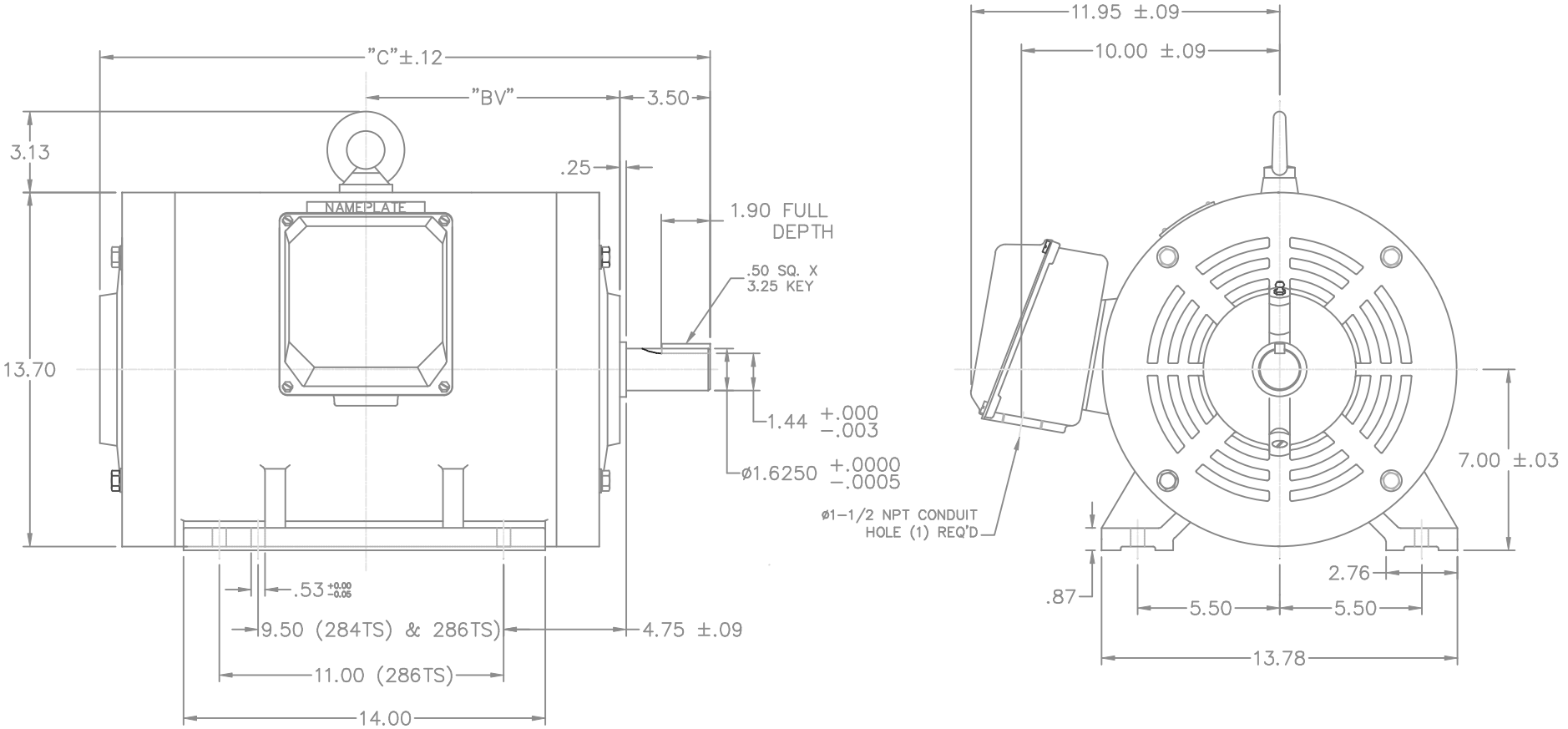
marathon® Motors

Nameplate Specifications

Phase	3	Output HP	30 & 30 Hp
Output KW	22.4 & 22.4 kW	Voltage	208-230/460 & 200/400 V
Speed	3550 & 2940 rpm	Service Factor	1.15 & 1.0
Frame	284TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	92.4 & 91.1 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	75-68.5/34.5 & 78/39 A	Power Factor	89
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6211	Opp Drive End Bearing Size	6211
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	.256 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	22.17 in
Shaft Diameter	1.630 in	Shaft Extension	3.5 in
Assembly/Box Mounting	F1 ONLY		
Connection Drawing	004172-01ME	Outline Drawing	16955360ME



NOTE: 286T HAS 6 MTG. HOLES, USING 254T AND 256T LOCATIONS

FRAME DESIGN	"C"	"BV"
284TS	22.17	9.11
286TS	23.62	9.83

NO.	REVISION	BY & DATE	CHK
2	UPDATED DRAWING	RJW 04-25-07	
1	NEW DRAWING	CTO 05/21/02	

TOLERANCES UNLESS SPECIFIED
DEC. INCHES
.X ±.1
.XX ±.03
.XXX ±.005
.XXXX ±.0005
ANG ±1/2°

MARATHON ELECTRIC

TITLE: OUTLINE 280TS FRAME DRIP PROOF – RIGID NEW CON-BOX
MAT'L.: CAST IRON
FINISH:
CAD FILE: 16955360me

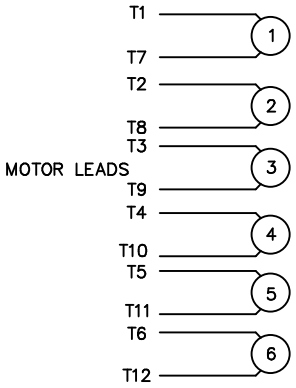
DRAWN CTO 04-24-2002
CHK ML 05-20-2002
APPD SB 05-21-2002
SCALE 1=1
REF
FMF
PREV

RFP
DIST

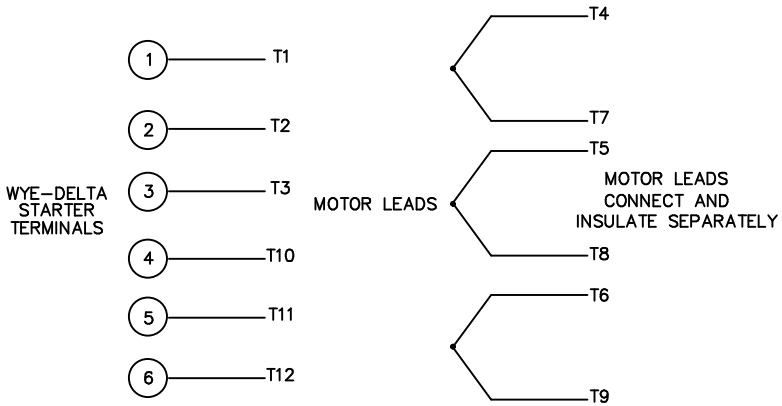
SIZE B | DRAWING NO. 169553-60ME | REV. 2

WYE – DELTA STARTING USEABLE ON 2, 4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

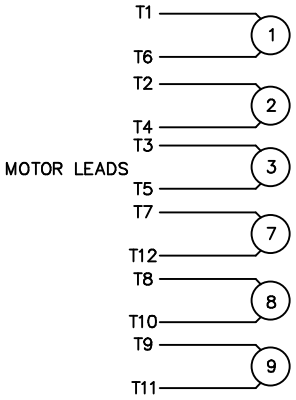


HIGH VOLTAGE CONNECTION



REFER TO THE WYE–DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

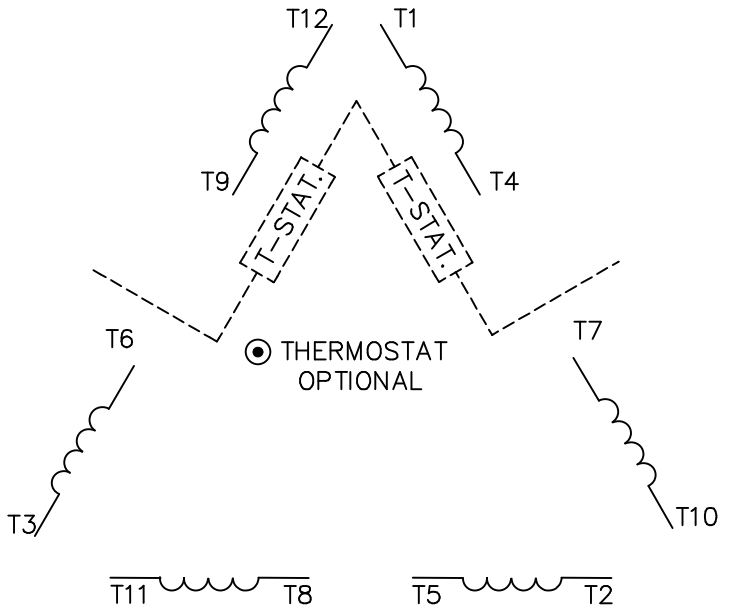
PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY



REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER–HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

LINE LEADS



ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS

⦿ RED LEADS OR P1, P2, FOR N/C THERMOSTAT

ACROSS THE LINE START & RUN

	LINE 1	LINE 2	LINE 3	JOIN & INSULATE SEPARATELY
HIGH VOLT	T1,T12	T2,T10	T3,T11	(T4,T7) (T5,T8) (T6,T9)
LOW VOLT	T1,T6 T7,T12	T2,T4 T8,T10	T3,T5 T9,T11	

NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

MARATHON ELECTRIC

TITLE DELTA – WYE CONNECTION DIAGRAM

MAT'L.

FINISH

CAD FILE 004172-01ME

RFP 07-19-2007

DIST LB

DRAWN	RJW 07-19-2007
CHK	ML 07-19-2007
APPD	GK 07-19-2007
SCALE	1=1
REF	MU61151
FMF	
PREV	

SIZE A | DRAWING NO. 004172-01ME | PAGE 1 OF 1 | REV.

7/20/2007 8:14:43 AM -

CERTIFICATION DATA SHEET

Model#: 284TSTDC6001 AA
WINDING#: T14502007 NONE 3
CONN. DIAGRAM: 004172-01ME
ASSEMBLY: F1 ONLY
OUTLINE: 16955360ME

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&30	22.4&22.4	3600	3550&2940	284TS	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	208-230/460#200/400	75-68.5/34.5&78/39	ACROSS THE LINE	CONTINUOUS	F5	1.15/1.0	40	3300

FULL LOAD EFF: 92.4&91.1	3/4 LOAD EFF: 92.4	1/2 LOAD EFF: 91	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89&91	3/4 LOAD PF: 87.5	1/2 LOAD PF: 86.8	92.3	SQ CAGE IND RUN	16.2 / 8.1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.5 LB-FT	434 / 217	82 LB-FT 184	125 LB-FT 281	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	- LB-FT^2	- LB-FT^2	15 SEC.	-	396 LBS.

*** SUPPLEMENTAL INFORMATION ***

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

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

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
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

* NOTES *

DATE: 06/23/2017 07:41:02 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 12/12/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

284TSTDC6001

Submittal

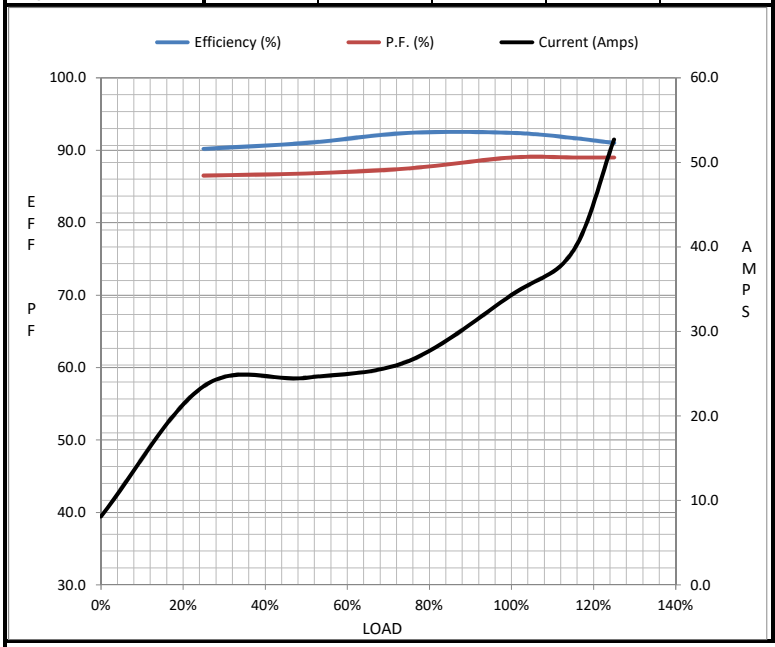
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	8.1	23.5	24.5	26.5	34.3	39.5	52.7	217	
Torque (ft-lb)	0.00	29.5	30.9	33.8	44.5	51.2	56.2	82.0	
RPM	3600	3575	3570	3565	3550	3,540	3535	0	
Efficiency (%)		90.2	91.0	92.4	92.4	91.7	91.0		
P.F. (%)	9.0	86.5	86.8	87.5	89.0	89.0	89.0	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3350	3550	3600
Current (Amps)	217	200	142	34.3	8.1
Torque (ft-lb)	82.0	67.0	125	44.5	0.00



Information Block

HP	30.0
Sync. RPM	3600
Frame	284
Enclosure	DP
Construction	TDC
Voltage	208-230/460#200/400 V
Frequency	60 Hz
Design	A
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	45 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.00 Lb-Ft²
Ref Wdg	T14502007 NONE
Sound Pressure @ 1M	78 dBA
VFD Rating	NONE
Outline Dwg	16955360ME
Conn. Diag	004172-01ME
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000