PRODUCT INFORMATION PACKET

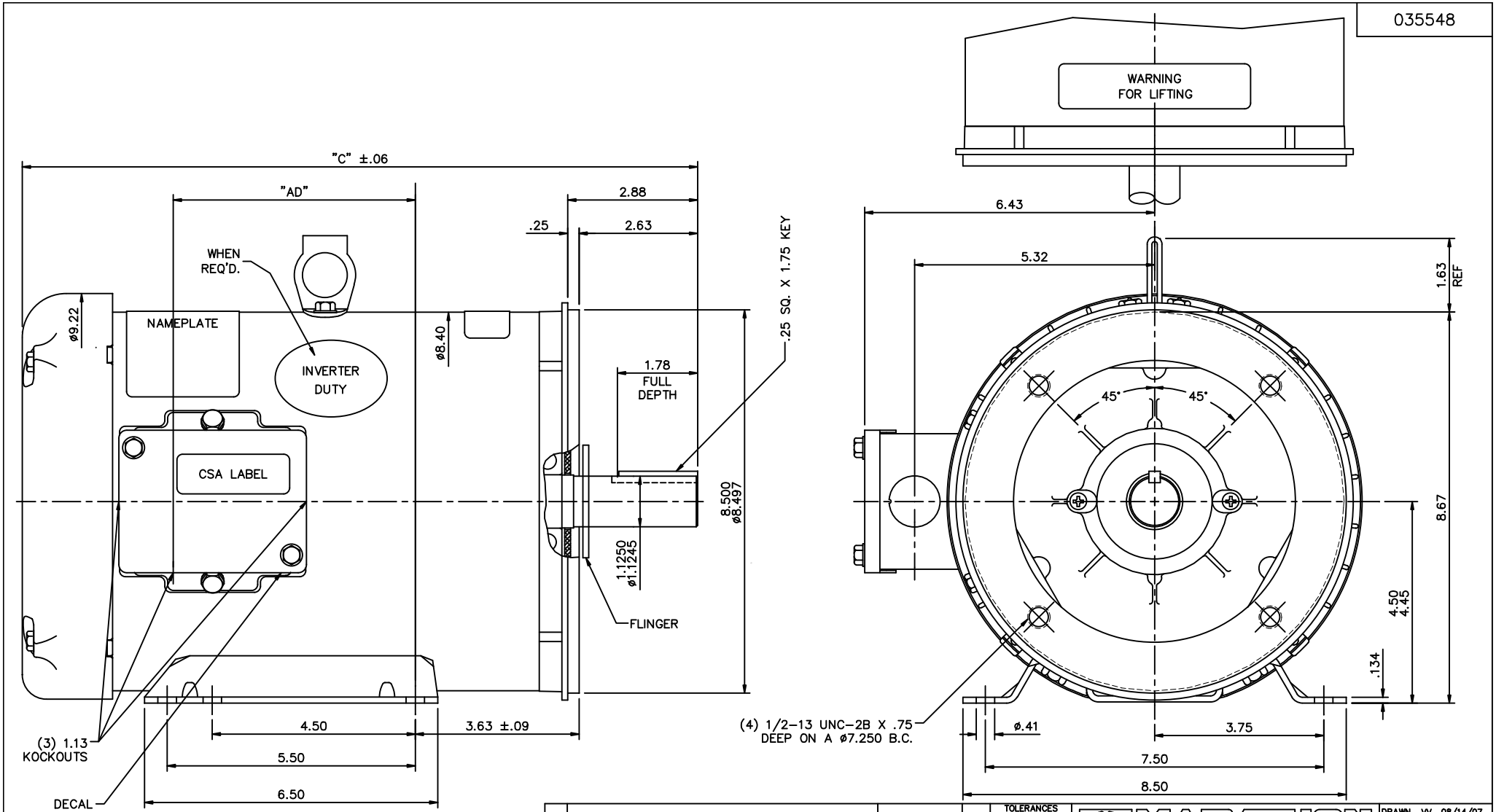
Model No: 184TTFW16029
Catalog No: C387B
XRI® General Purpose General Purpose Motor, 5 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 184TC Frame, TEFC

Nameplate Specifications

Phase	3	Output HP	5 Hp
Output KW	3.7 kW	Voltage	575 V
Speed	1760 rpm	Service Factor	1.15
Frame	184TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	5.1 A	Power Factor	83.1
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	2.68 Ohms	Mounting	Bolt-on Base
Motor Orientation	Horizontal Or Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	14.97 in
Frame Length	9.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.88 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 10:1		
Connection Drawing	005102.01ME	Outline Drawing	035548-950



DASH NO.	"C"	"AD"
850	13.97	4.37
900	14.47	4.87
950	14.97	5.37
1000	15.47	5.87
1050	15.97	6.37
1100	16.47	6.87
1150	16.97	7.37

MAXIMUM FACE RUNOUT TO BE .004 T.I.R.
MAXIMUM PILOT ECCENTRICITY TO BE .004 T.I.R.
PERMISSIBLE SHAFT RUNOUT TO BE .002 T.I.R.

NO.	REVISION	BY & DATE	CHK
01	ADD CSA DECAL PER ISAAC 11-1477	LST 3/29/11	ANG

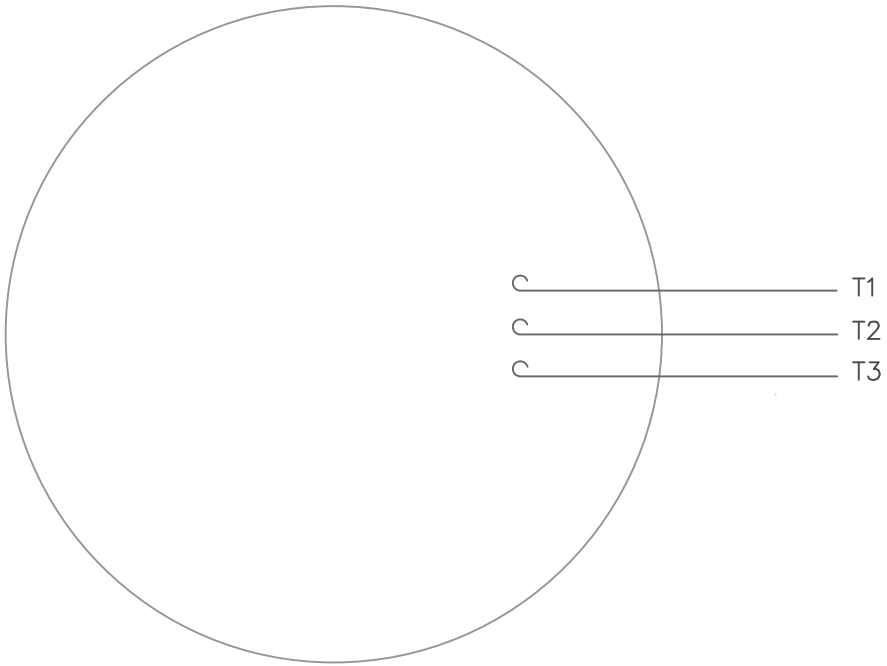
TOLERANCES UNLESS SPECIFIED	
DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

MARATHON ELECTRIC

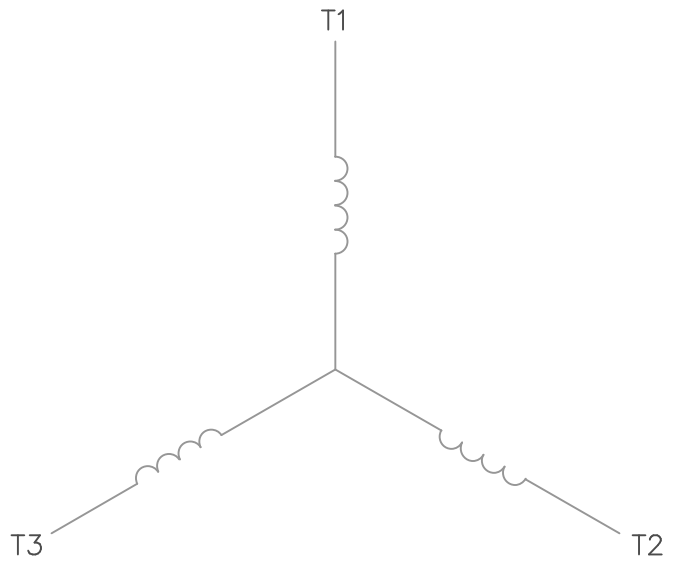
DRAWN	VV 08/14/07
CHK	RDW 09/10/07
APPD	
TITLE	OUTLINE - 180TC FRAME TEFC - RIGID "C"
SCALE	1=2
REF	035469
MAT'L.	BOLT-ON BASE
FMF	
FINISH	
PREV	
RFP	
CAD FILE	035548
DIST	NLV
SIZE	B
DRAWING NO.	035548
REV.	01

005102-01ME

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



CONNECT LEADS AS FOLLOWS
FOR FOUR CONDUCTOR CORD ( )

CORD	L1 (RED)	L2 (WHITE)	L3 (BLACK)	(GREEN)
MOTOR	T1	T2	T3	GROUND

NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

MARATHON ELECTRIC

TITLE: EXTERNAL WIRING DIAGRAM TYPE "T" W/O PROTECTOR

MAT'L.: DECAL – 004169

FINISH:

DRAWN RDW 5/1/02
CHK
APPD
SCALE 1=1
REF
FMF
PREV

RFP 5/1/02
DIST

CAD FILE: 00510201ME

SIZE	DRAWING NO.	REV.
A	005102-01ME	

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CERTIFICATION DATA SHEET

Model#:	184TTFW16029 AA	**WINDING#:**	T84170 FR 4
CONN. DIAGRAM:	005102.01ME	**ASSEMBLY:**	F1 ONLY
OUTLINE:	035548-950		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5	3.7	1800	1760	184TC	TEFC	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	5.1	LINE OR INVERTER	CONTINUOUS	F4	1.15	40	3300

FULL LOAD EFF: 89.5	3/4 LOAD EFF: 90.2	1/2 LOAD EFF: 88.9	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83.1	3/4 LOAD PF: 79.4	1/2 LOAD PF: 70.8	0	SQ CAGE INV RATED	-

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
14.96 LB-FT	39.2	30.1 LB-FT 201	50.2 LB-FT 336	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0.485 LB-FT^2	- LB-FT^2	10 SEC.	-	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	BOLT-ON	HORIZONTAL OR SHAFT DOWN	FALSE	NONE	PROVISIONS ONLY	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6206	BALL 6205	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL

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: CONSTANT 10:1
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

* NOTES *

DATE: 06/28/2017 07:32:24 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 29-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

184TTFW16029

Submittal

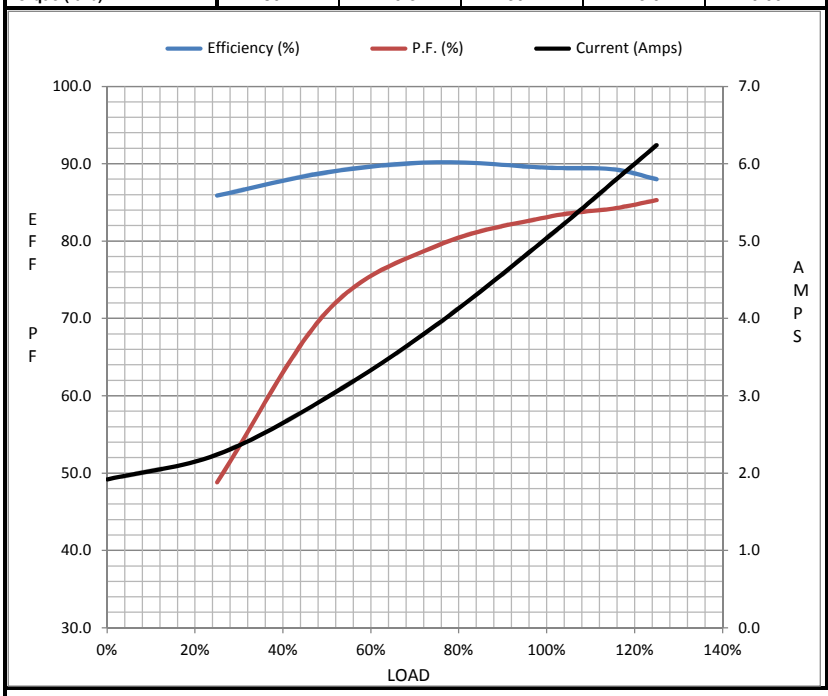
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.92	2.24	2.98	3.9	5.0	5.8	6.2	39.2	
Torque (ft-lb)	0.00	3.7	7.4	11.1	15.0	17.4	18.8	30.1	
RPM	1800	1790	1779	1768	1760	1,747	1742	0	
Efficiency (%)		85.9	88.9	90.2	89.5	89.3	88.0		
P.F. (%)	6.8	48.8	70.9	79.4	83.1	84.2	85.3	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1656	1760	1800
Current (Amps)	39.2	36.1	23.5	5.0	1.92
Torque (ft-lb)	30.1	29.8	50.2	15.0	0.00



Information Block

HP	5.0	
Sync. RPM	1800	
Frame	184	
Enclosure	TEFC	
Construction	TFW	
Voltage	575	V
Frequency	60	Hz
Design	B	
LR Code letter	J	
Service Factor	1.15	
Temp Rise @ FL	65	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.49	Lb-Ft²
Ref Wdg	T84170 FR	
Sound Pressure @ 1M	55	dBA
VFD Rating	CONSTANT 10:1	
Outline Dwg	035548-950	
Conn. Diag	005102.01ME	

Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed -Torque Curve