marathon®

Cooling Tower Motors

Model No: 184TTFS7290
Catalog No: Y380

Cooling Tower Motor, 3 & 0.75 HP, 3 Ph, 60 & 60 Hz, 460 & 460 V, 1800 RPM, 184T Frame, TEFC

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Product Information Packet: Model No: 184TTFS7290, Catalog No: Y380 Cooling Tower Motor, 3 & 0.75 HP, 3 Ph, 60 & 60 Hz, 460 & 460 V, 1800 RPM, 184T Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**3 & 0.75 Hp**
Output KW	**2.2 & 0.56 kW**	Voltage	**460 & 460 V**
Speed	**1760 & 875 r/min**	Synchronous RPM	**1800 & 900 r/min**
Service Factor	**1.15 & 1.15**	Frame	**184T**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**85.5 & 74 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 60 Hz**	Current	**4 & 1.75 A**
Power Factor	**82**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**1VT**
KVA Code	**K**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6205**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**55**	Number of Speeds	**2**

Technical Specifications

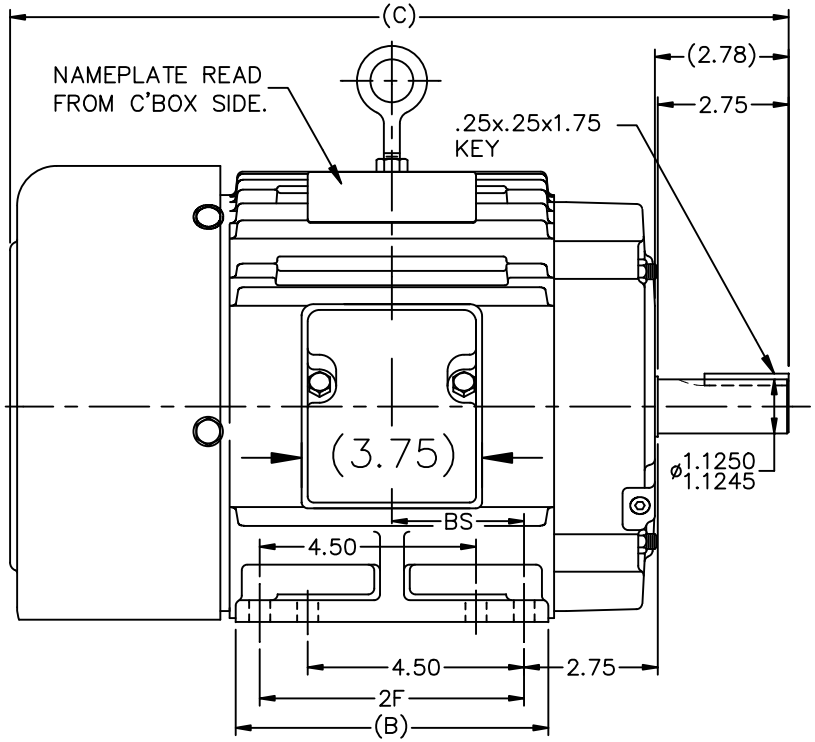
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**4/8**	Rotation	**Reversible**
Resistance Main	**6.1 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Overall Length	**16.19 in**
Frame Length	**6.75 in**	Shaft Diameter	**1 1/8 in**
Shaft Extension	**2.78 in**	Assembly/Box Mounting	**F1/F2 Capable**

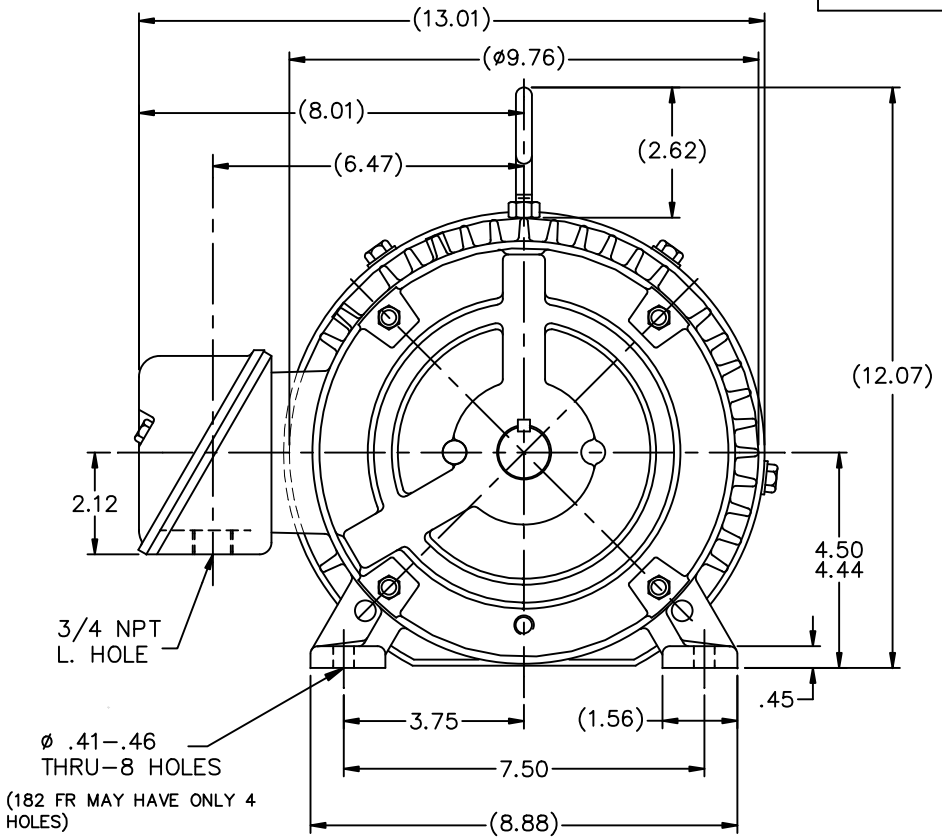
Drawings

Connection Drawing	**A-EE7322**	Outline Drawing	**A-SS63661-675**

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SS63661





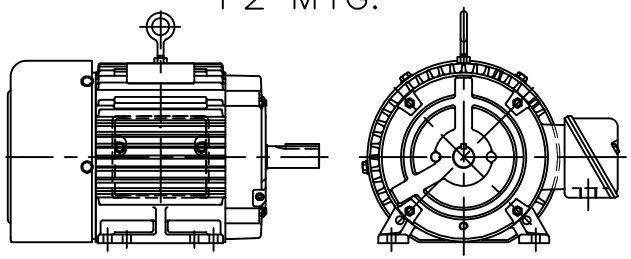
BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS & TURNING FRAME 180°.

BOX CAN BE ROTATED IN 90° STEPS.

DASH	FR.	C	B	2F	BS
575	182T	15.19	5.50	4.50	2.25
675	184T	16.19	6.50	5.50	2.75
800	184T	17.44	7.75	5.50	3.38

02-15-2011

F2 MTG.



NO.	REVISION	BY & DATE	CHK
13	CHG COND. BOX DIM, WAS 5.00 NOW 3.75 ECN 18821	TF 01/31/2011	EMH
12	REDRAWN IN AUTOCAD	TAT 06-29-2004	ML
11	UPDATED MOUNTING HOLE NOTE CN 26000-581	DRS 01-02-2002	ML
10	ADDED 182 FR. MAY HAV... NOTE CN 26000-581	MRB 07-02-1998	
9	ADDED 4 MOUNTING HOLES	MJD 06-09-1998	
8	ADDED NEMA "O" DIMENSION	MRB 09-12-1996	

TOLERANCES UNLESS SPECIFIED		
DEC.	INCHES	
.X	±.1	
.XX	±.03	
.XXX	±.005	
.XXXX	±.0005	
ANG	±7'30"	

MARATHON ELECTRIC

TITLE OUTLINE
180 FR. – BB – TS – TEFC

MAT'L.
FINISH
CAD FILE ss63661
RFP
DIST LB

DRAWN	RM 01-08-1993
CHK	ML 01-13-1993
APPD	GK 01-13-1993
SCALE	1=4
REF	
FMF	
PREV	

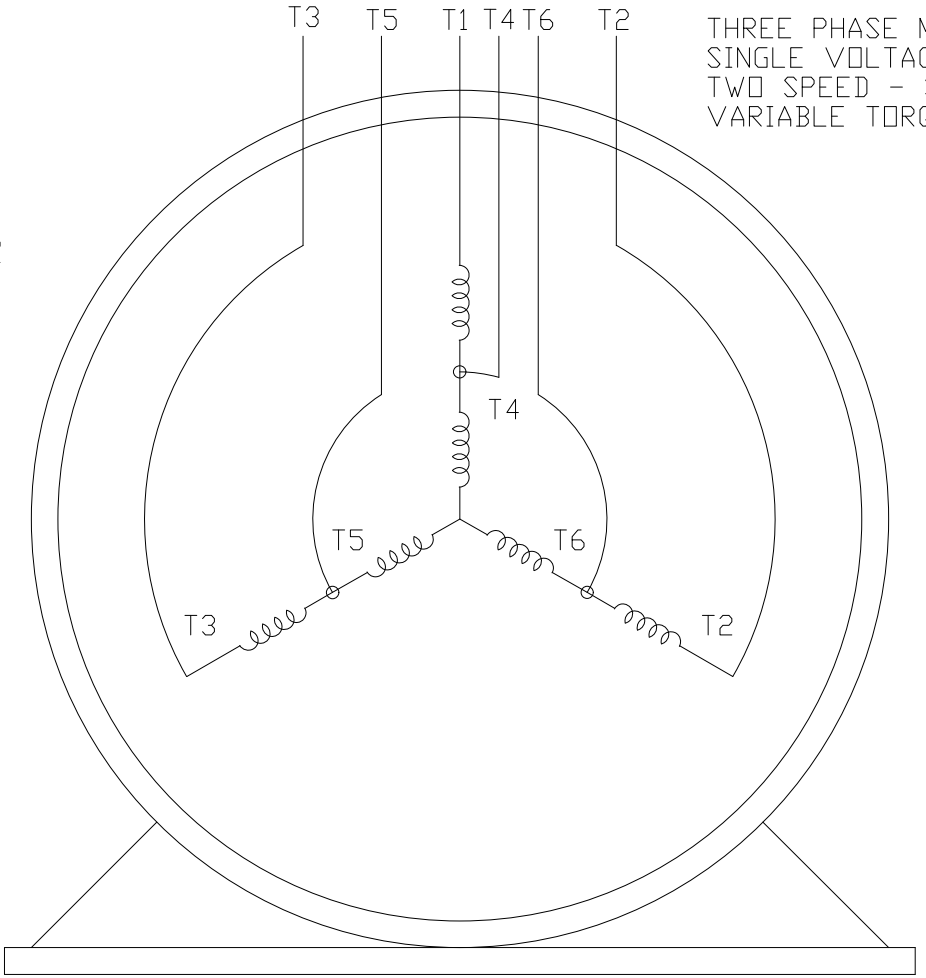
SIZE	DRAWING NO.	PAGE	OF	REV.
A	SS63661			13

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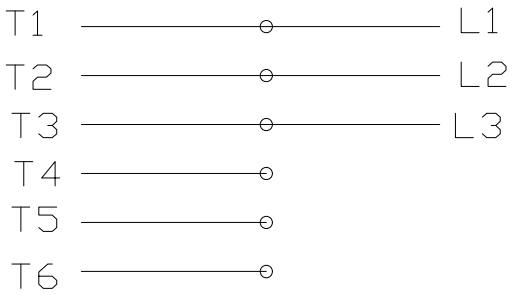
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THREE PHASE MOTOR
SINGLE VOLTAGE
TWO SPEED - SGL. WDG.
VARIABLE TORQUE

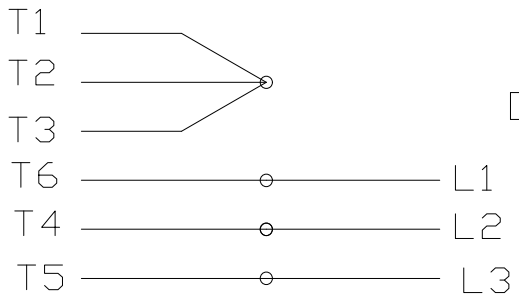


VIEW OF TERMINAL END

LOW SPEED

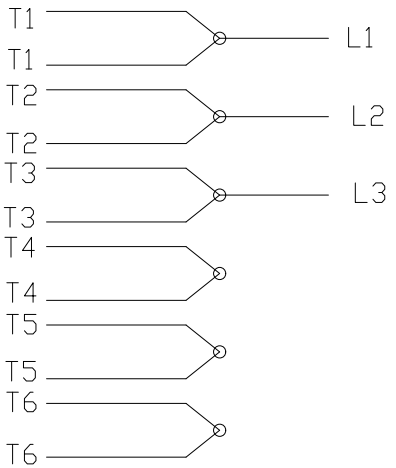


HIGH SPEED

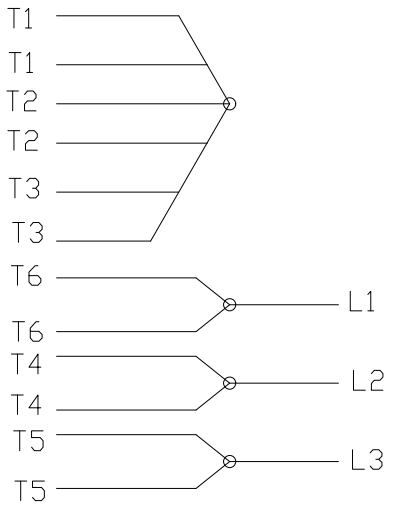


FOR DUAL LEADS

LOW SPEED



HIGH SPEED



T612C
T48B

DRAWING REVISION	REVISION BY	REV DATE/ © DATE
C	SB	08/20/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023600	SBD	08/20/2025

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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DRAWN BY	PGK
DATE	12/26/1996
APPROVED BY	TB
DATE	01/07/1997
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION
CONN DIAGRAM
3Ø - SINGLE VOLTAGE - 2 SPEED

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	4 of 5 EE7322	1 OF 1

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CERTIFICATION DATA SHEET

Model#:	184TTFS7290 AR	**WINDING#:**	184(4-8)51 NONE 1
CONN. DIAGRAM:	A-EE7322	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	A-SS63661-675		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&3/4	2.24&0.56	900	1760&875	184T	TEFC	K	1VT

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/60	460	4&1.75	ACROSS THE LINE	CONTINUOUS	F3	1.15/1.15	40	3300

FULL LOAD EFF: 85.5&74	3/4 LOAD EFF: 70	1/2 LOAD EFF: 64	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82&55	3/4 LOAD PF: 46.5	1/2 LOAD PF: 36	68.8	SQ CAGE IND RUN	1.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.5 LB-FT	6.5	5.6 LB-FT 124	11.8 LB-FT 262	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
54 dBA	64 dBA	0.46 LB-FT^2	- LB-FT^2	20 SEC.	-	130 LBS.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6206	BALL 6205	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	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

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