marathon®

Cooling Tower Motors

Model No: 215TTFS7290
Catalog No: Y382

Cooling Tower Motor, 7.50 & 1.88 HP, 3 Ph, 60 & 60 Hz, 460 & 460 V, 1800 RPM, 215T Frame, TEFC

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Product Information Packet: Model No: 215TTFS7290, Catalog No: Y382 Cooling Tower Motor, 7.50 & 1.88 HP, 3 Ph, 60 & 60 Hz, 460 & 460 V, 1800 RPM, 215T Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**7.50 & 1.88 Hp**
Output KW	**5.6 & 1.4 kW**	Voltage	**460 & 460 V**
Speed	**1765 & 875 r/min**	Synchronous RPM	**1800 & 900 r/min**
Service Factor	**1.15 & 1.15**	Frame	**215T**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**89.5 & 86.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 60 Hz**	Current	**9 & 3.1 A**
Power Factor	**89**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**1VT**
KVA Code	**K**	Drive End Bearing Size	**6307**
Opp Drive End Bearing Size	**6206**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**55**	Number of Speeds	**2**

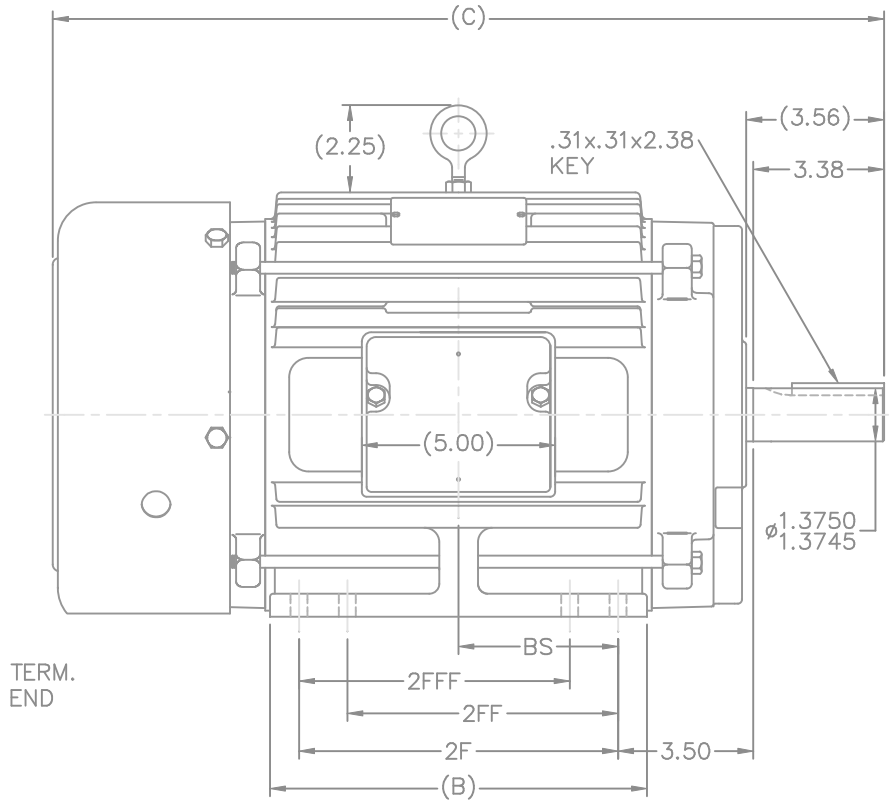
Technical Specifications

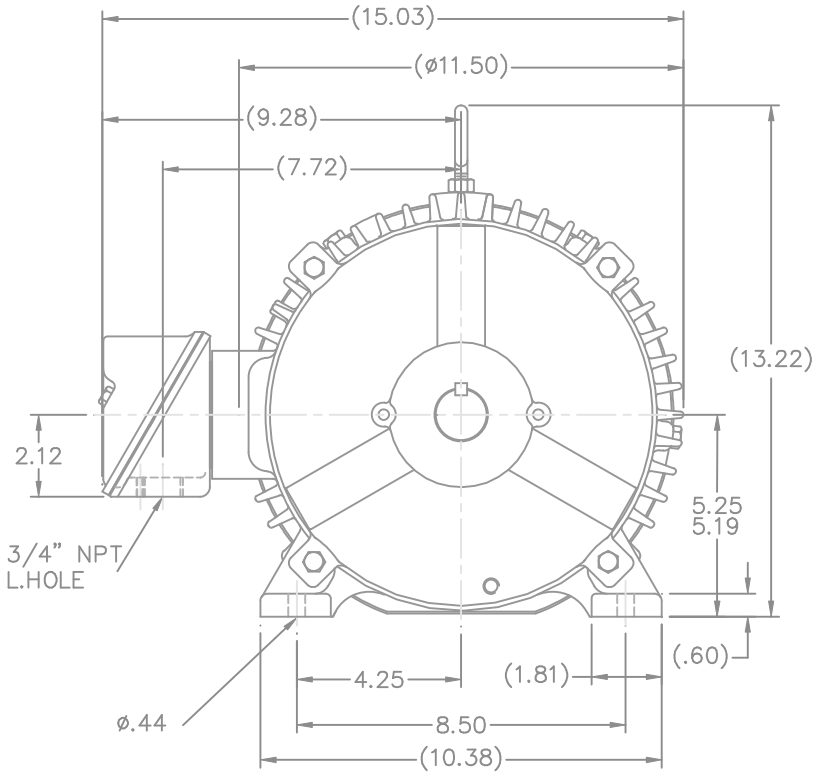
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**4/8**	Rotation	**Reversible**
Resistance Main	**1.475 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Overall Length	**19.72 in**
Frame Length	**8.75 in**	Shaft Diameter	**1 3/8 in**
Shaft Extension	**3.56 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**A-EE7322**	Outline Drawing	**B-SS84236-875**

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DASH	FRAME	B	2F	2FF	2FFF	BS	FOOT HOLE QTY.	MOUNTING	C CAST FAN GUARD	C STEEL FAN GUARD
725	213T	7.00	5.50	–	–	2.75	4	F1 OR F2	18.22	18.74
875	215T	8.50	7.00	–	–	3.50	4	F1 OR F2	19.72	20.24
875	213/5T	8.50	7.00	5.50	5.50	3.50	8	F1 OR F2	19.72	20.24
1000	213T	9.75	8.25	5.50	5.50	4.12	8	F1 OR F2	20.97	21.49
1000	215T	9.75	8.25	7.00	7.00	4.12	8	F1 OR F2	20.97	21.49

NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

NO.	REVISION	BY & DATE	CHK
13	REMOVED NOTE "SEE TABLE FOR HOLE QTY."	RDH 11-18-2003	ML
12	-875'S FOOT HOLE QTYS. WERE SWITCHED CN37323	ERH 10-21-2003	ML
11	REVISED TABLE TO CLARIFY MOUNTINGS CN37301	TAT 9-29-2003	ML
10	CORRECTEDCONDUIT BOX VIEWS CN28426	BLR 1-5-2000	
9	REVISED CONDUIT BOX CN28426	BLR 1-4-2000	
8	REVISED DASH TABLE AND FOOT HOLE DIM.	MRB 3-26-1999	

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

MARATHON ELECTRIC

TITLE OUTLINE
210T FR. – TEFC

MAT'L.

FINISH

CAD FILE ss84236

RFP

DIST LB

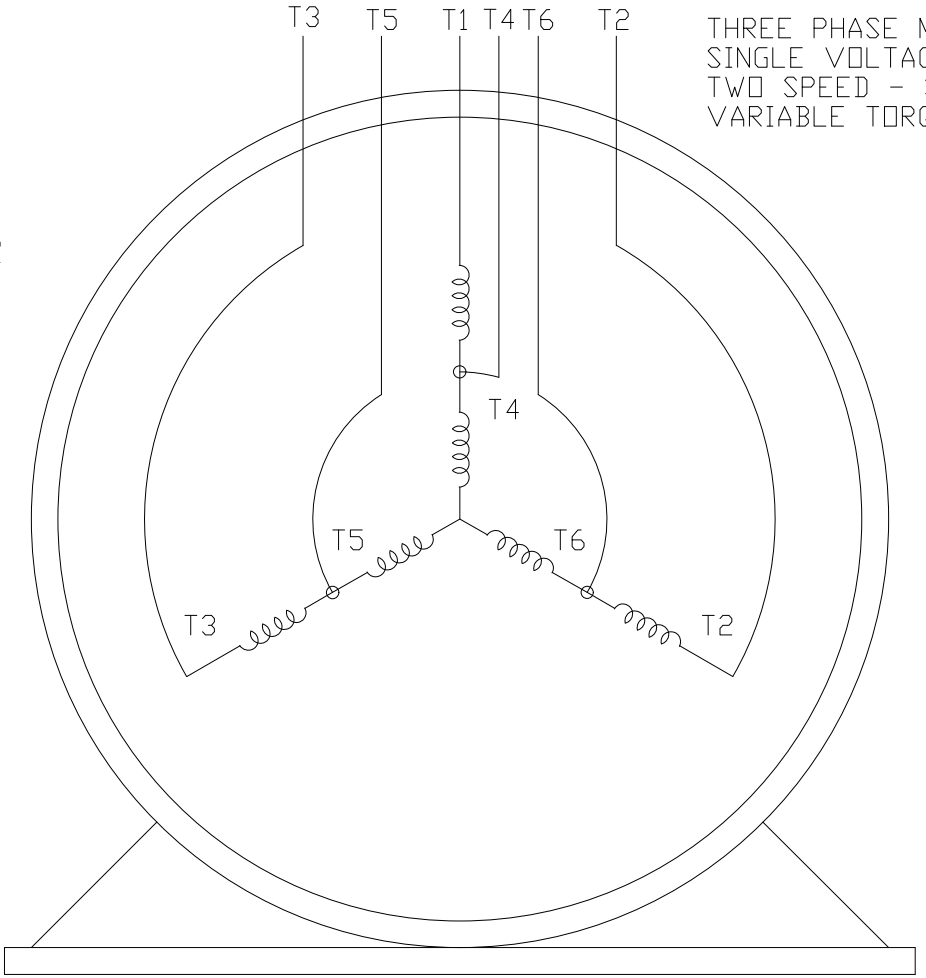
DRAWN RM 1-11-1993
CHK ML 1-12-1993
APPD GK 1-12-1993
SCALE 5=16
REF
FMF
PREV

SIZE B | DRAWING NO. SS84236 | PAGE OF | REV. 13

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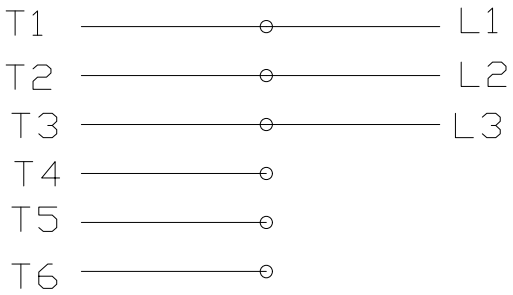
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THREE PHASE MOTOR
SINGLE VOLTAGE
TWO SPEED - SGL. WDG.
VARIABLE TORQUE

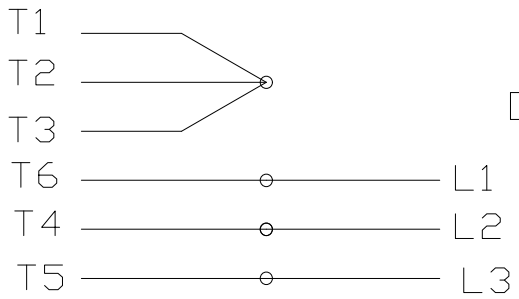


VIEW OF TERMINAL END

LOW SPEED

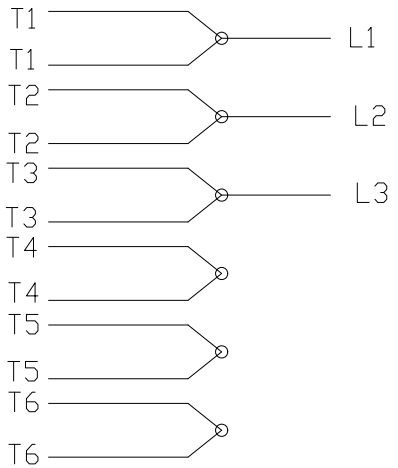


HIGH SPEED

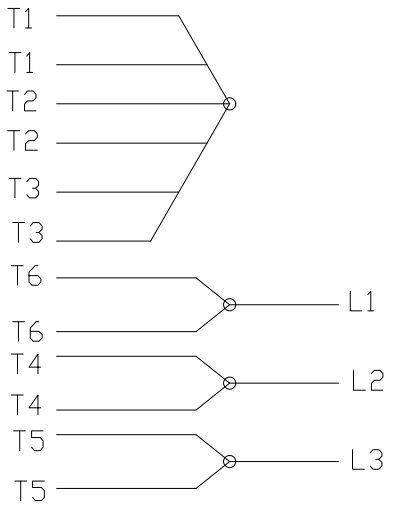


FOR DUAL LEADS

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

marathon™

DESCRIPTION
CONN DIAGRAM
3Ø - SINGLE VOLTAGE - 2 SPEED

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	4 of 6 EE7322	1 OF 1

CERTIFICATION DATA SHEET

Model#:	215TTFS7290 AP	**WINDING#:**	215(4-8)62 NONE 1
CONN. DIAGRAM:	A-EE7322	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS84236-875		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&1 7/8	5.60&1.40	900	1765&875	215T	TEFC	K	1VT

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/60	460	9&3.1	ACROSS THE LINE	CONTINUOUS	F3	1.15/1.15	40	3300

FULL LOAD EFF: 89.5&86.5	3/4 LOAD EFF: 86.5	1/2 LOAD EFF: 84.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89&66.5	3/4 LOAD PF: 59.5	1/2 LOAD PF: 48.5	83.8	SQ CAGE IND RUN	1.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
11.5 LB-FT	13.5	13 LB-FT 113	25.5 LB-FT 222	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
52 dBA	62 dBA	1.2 LB-FT^2	- LB-FT^2	- SEC.	-	240 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	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON
6307	6206						

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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