marathon®

Explosion Proof Motors

Model No: 182TTGCD6530
Catalog No: U023B

Explosion Proof Motor, 3 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 182T Frame, EPFC

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Product Information Packet: Model No: 182TTGCD6530, Catalog No: U023B Explosion Proof Motor, 3 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 182T Frame, EPFC

Nameplate Specifications

Phase	**3**	Output HP	**3 Hp**
Output KW	**2.2 kW**	Voltage	**575 V**
Speed	**1762 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.00**	Frame	**182T**
Enclosure	**Explosion Proof Fan cooled**	Thermal Protection	**Thermostat**
Efficiency	**89.5 %**	Ambient Temperature	**50 °C**
Frequency	**60 Hz**	Current	**3.2 A**
Power Factor	**78**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**K**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6206**	UL	**UL Listed And CSA Certified**
CSA	**Y**	CE	**N**
IP Code	**54**	Number of Speeds	**1**
Hazardous Location	**DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C**		

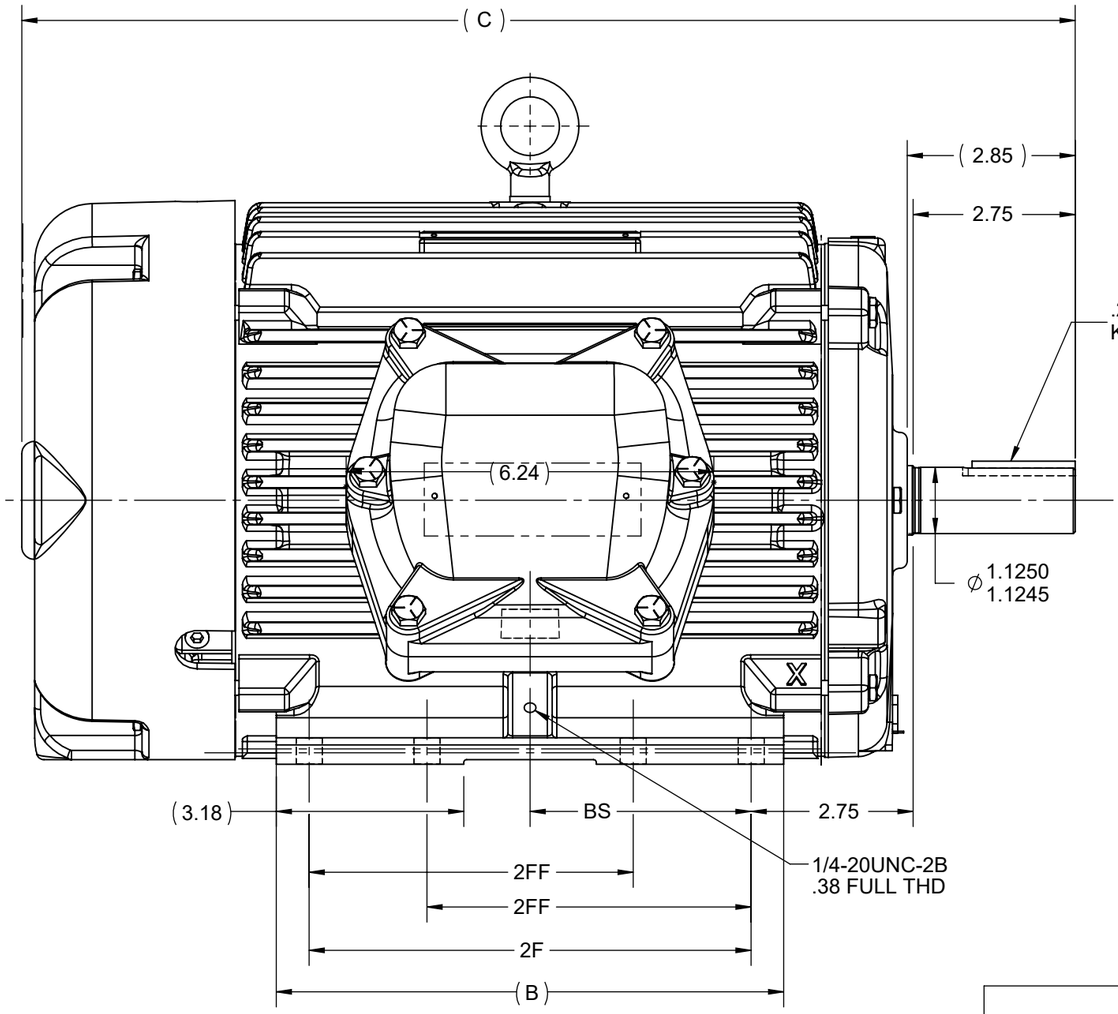
Technical Specifications

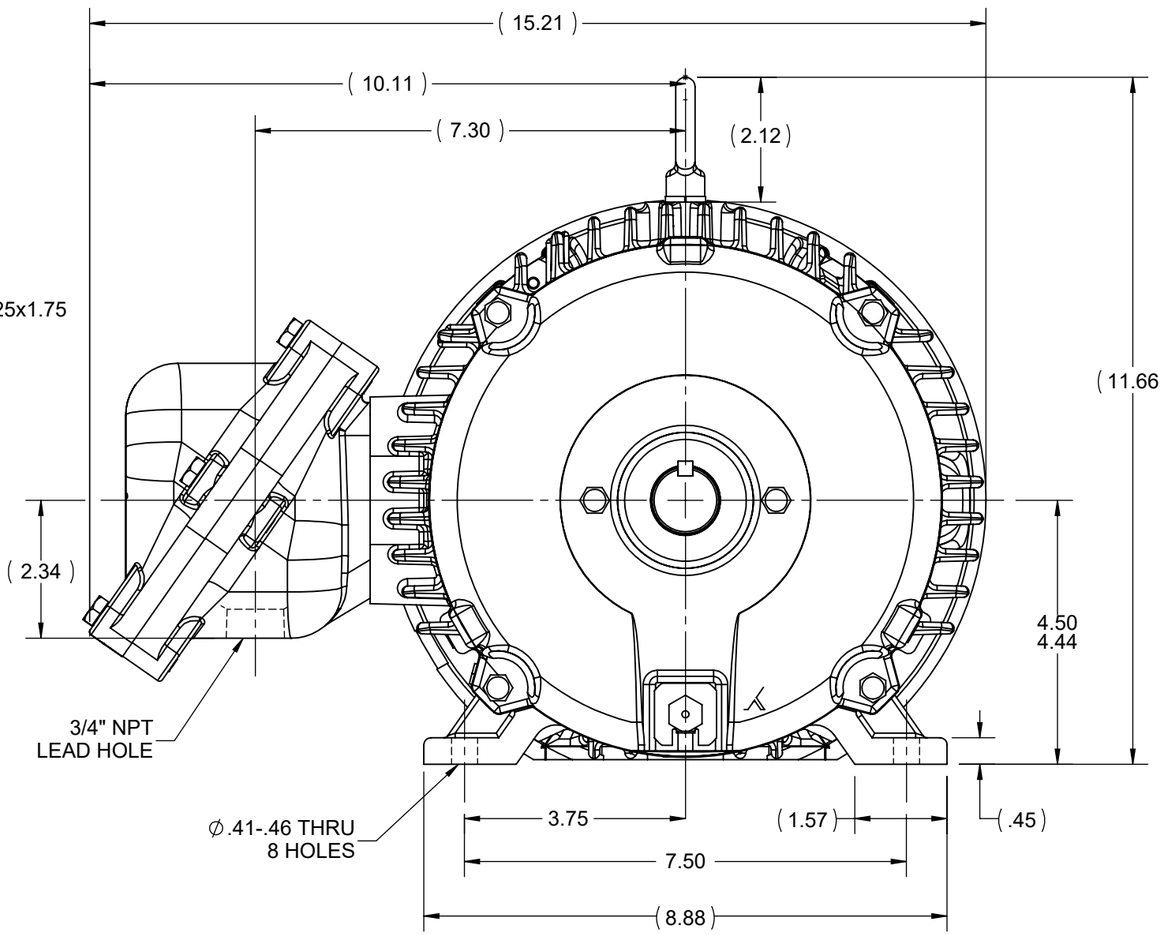
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Part Wdg Start Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**4.15 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Shaft Diameter	**1.125 in**
Assembly/Box Mounting	**F1 Only**	Inverter Load	**Constant 10:1**

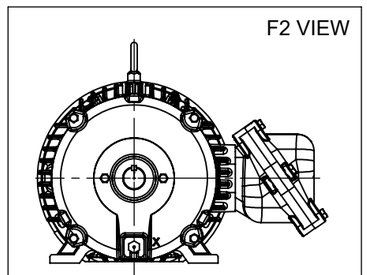
Drawings

Connection Drawing	**A-EE7300T**	Outline Drawing	**035660-800**

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NOTES:
1. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
2. CONDUIT BOX CAN ROTATED IN 90° STEPS.
3. CONDUIT BOX CAN MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. THIS MODIFICATION CAN BE PERFORMED ONLY BY THE ORIGINAL EQUIPMENT MANUFACTURER, OR BY A FACILITY THAT IS COVERED UNDER UNDERWRITERS LABORATORIES INC. CATEGORY PTKQ. TITLED "MOTORS AND GENERATORS REBUILT FOR USE IN HAZARDOUS LOCATIONS."

DASH	FRAME	C	B	2F	2FF	BS
1000	184	17.88	8.61	7.50	5.50	3.75
800	182/184	15.88	6.61	5.50	4.50	2.75

DRAWING REVISION	REVISION BY	REV DATE/© DATE
H	MN	07/09/2025
REQUEST NUMBER	APPROVED BY	DATE
NMR-0237951	MANJUNATH	07/09/2025

REQUEST NUMBER DESCRIPTION
UPDATED BS IN DRAWING

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±7' 30"
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	CTO
DATE	07-05-2007
APPROVED BY	SW
DATE	3/26/2008
REFERENCE	

marathon™

DESCRIPTION
OUTLINE
180 FR.

MATERIAL | PROCESS/FINISH

THIRD ANGLE PROJECTION

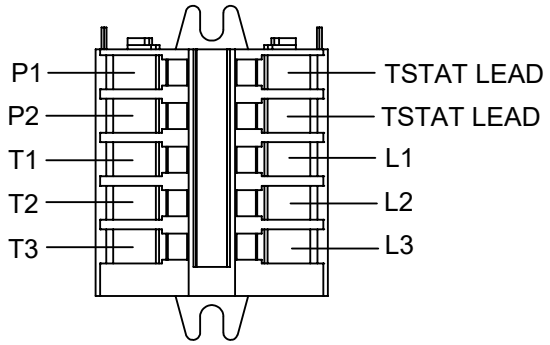
SIZE B | DRAWING NUMBER 035660 | SHEET 1 OF 1

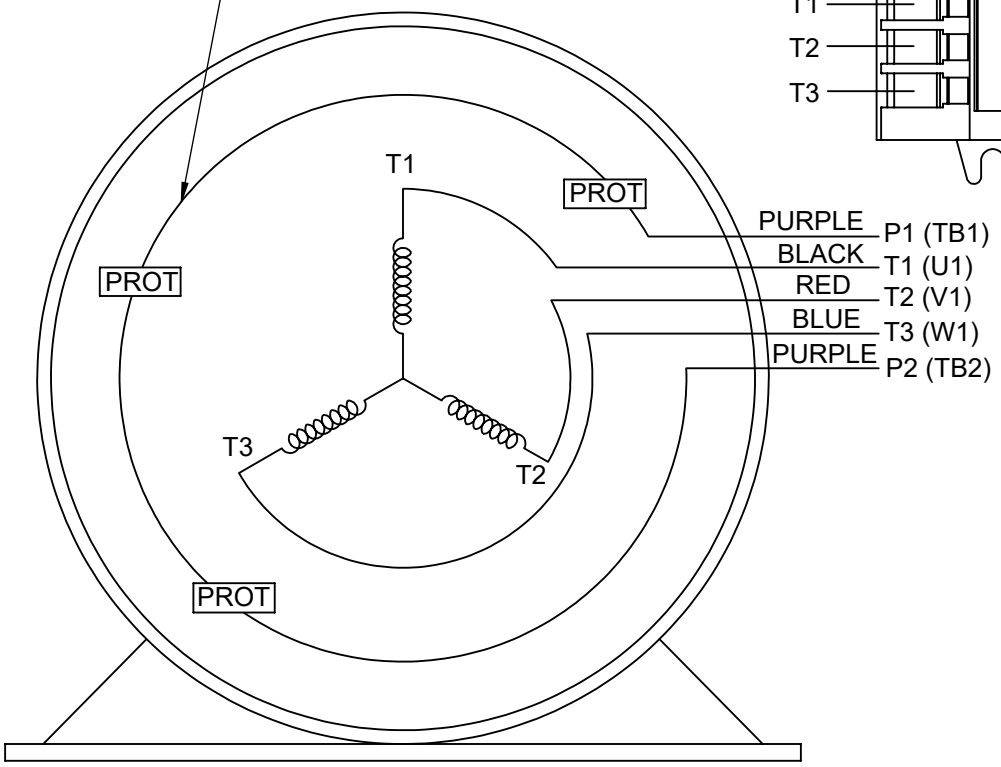
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

NOTE FOR FACTORY USE ONLY:
TO SURGE TEST:
FOR 3 LEAD COMMON CONNECT:
CONNECT P1 TO T1 THEN P2 TO L1
FOR 6 LEAD COMMON CONNECT:
CONNECT P1 TO BOTH T1
THEN P2 TO L1

TERMINIAL BLOCK WHEN SPECIFIED

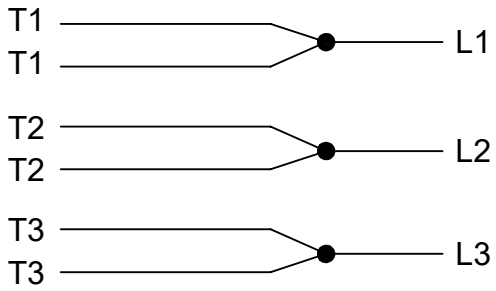




VIEW OF TERMINAL END

T2BM
T6AW
T6AL
T6Z
T4EG
T4BF
T8A
T6H
T6A
T4AX
T4A
T2A
T2F

IF MOTOR HAS MULTIPLE
T'S PER LEAD CONNECT
TOGETHER LIKE T'S



A-9806 DECAL

DRAWING REVISION AC	REVISION BY SB	REV DATE/© DATE 08/01/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY LZ	marathon™
REQUEST NUMBER CR-0023654	APPROVED BY SBD	DATE 08/01/2025		DATE 01-04-1994	
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED				APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR
				DATE 01-20-1994	
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE A / DRAWING NUMBER EE7300T / SHEET 1 OF 1

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Data Sheet

Date: 5/24/2024
Customer:
Attention:
Submitted by: VESHNU G

marathon® Motors

182TTGCD6530

Submittal

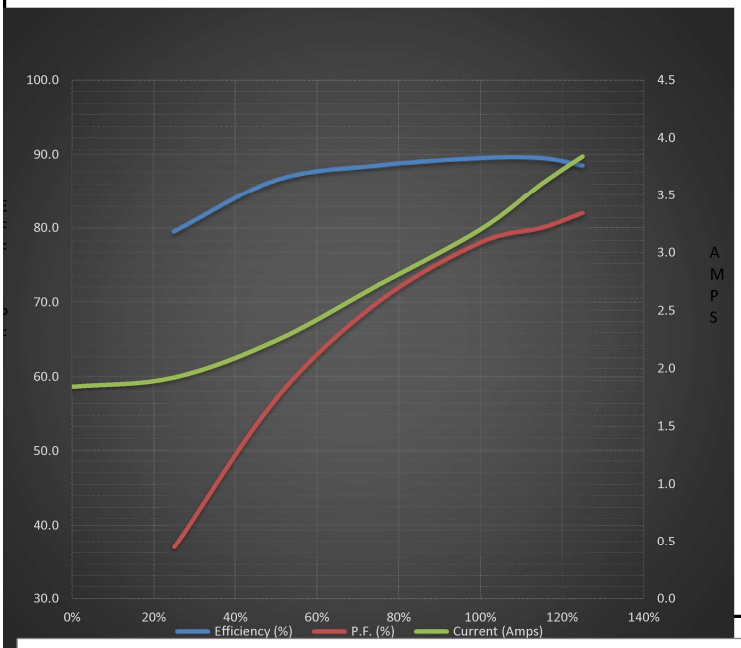
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.84	1.92	2.24	2.72	3.2	3.6	3.8	25.6	
Torque (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.3	11.2	22.0	
RPM	1800	1790	1782	1772	1762	1,758	1755	0	
Efficiency (%)		79.5	86.5	88.5	89.5	89.5	88.5		
P.F. (%)	7.0	37.0	57.0	70.0	78.0	80.0	82.0	48.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1762	1800
Current (Amps)	25.6	22.4	14.4	3.2	1.84
Torque (ft-lb)	22.0	17.0	30.0	9.0	0.00



Information Block

HP	3.0	
Sync. RPM	1800	
Frame	182	
Enclosure	EPFC	
Construction	TFC	
Voltage	575	V
Frequency	60	Hz
Design	B	
LR Code letter	K	
Service Factor	1	
Temp Rise @ FL	45	° C
Duty	CONT	
Ambient	50	° C
Elevation	3,300	feet
Rotor/Shaft wk²	0.30	Lb-Ft²
Ref Wdg	HA31124021 R1	
Sound Pressure @ 1M	62	dBA
VFD Rating	CONSTANT 10:1	
Outline Dwg	035660-800	
Conn. Diag	A-EE7300T	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
3.6950	2.2170	8.4250	8.4250	184.7660

Speed -Torque Curve

