marathon®

Explosion Proof Motors

Model No: 182TTGN6530
Catalog No: U023A

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: 182TTGN6530, Catalog No: U023A 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	**1765 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.15**	Frame	**182T**
Enclosure	**Explosion Proof Fan cooled**	Thermal Protection	**Thermostat**
Efficiency	**90.2 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**3.2 A**
Power Factor	**80**	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; also, UL Certified for Canada**
CSA	**N**	CE	**N**
IP Code	**54**	Number of Speeds	**1**
Hazardous Location	**DIV 1 EXP PROOF CL I GR CD CL II GR FG T3B**		

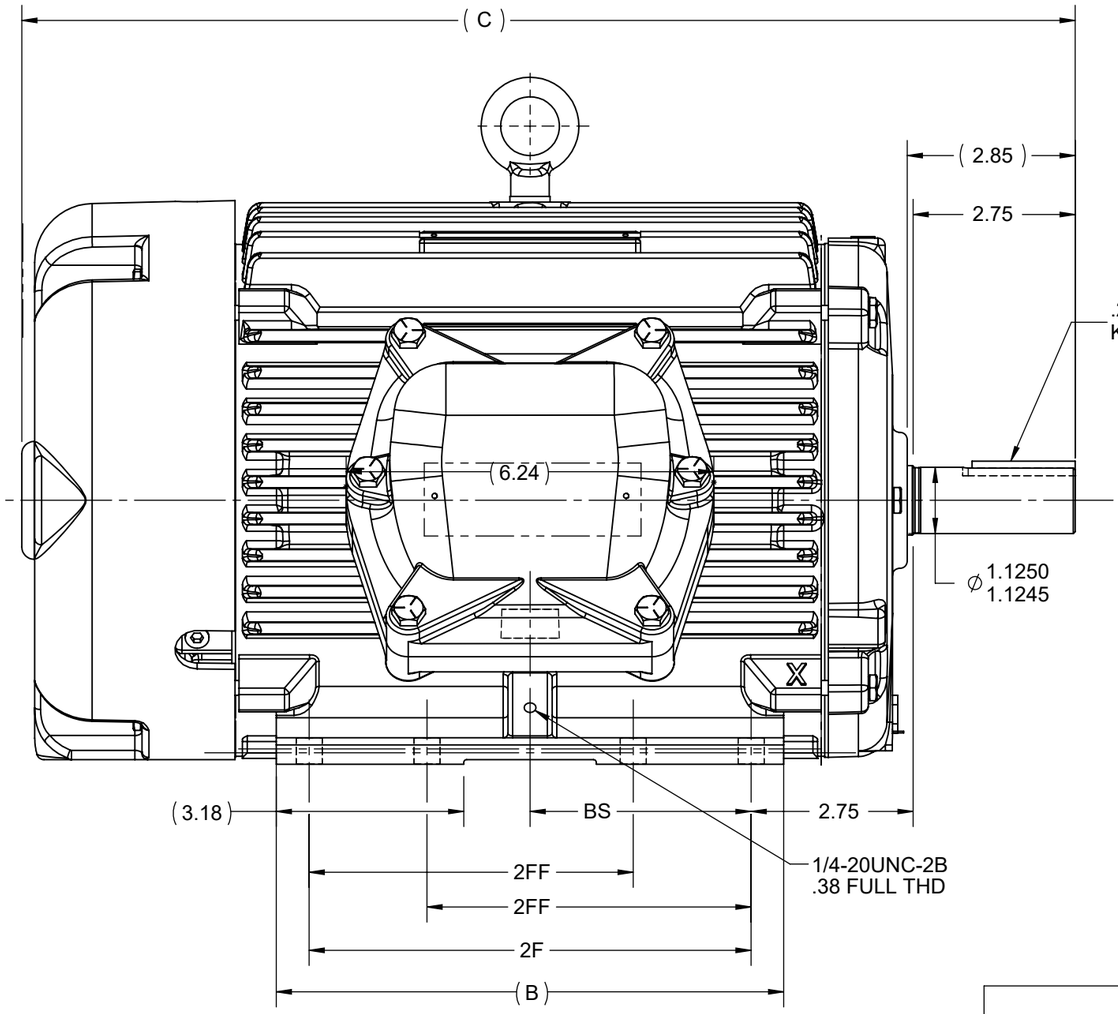
Technical Specifications

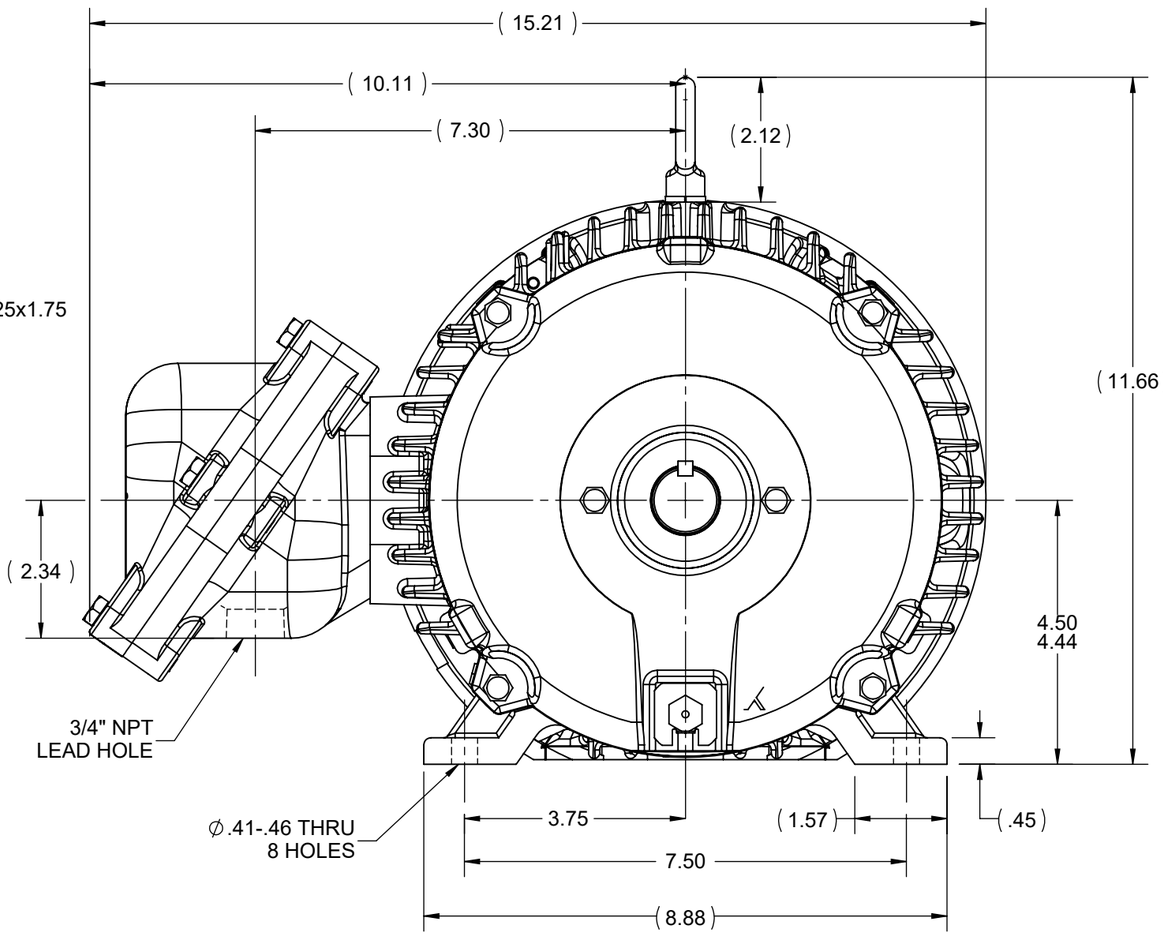
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**3.76 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Overall Length	**15.87 in**
Frame Length	**8.0 in**	Shaft Diameter	**1 1/8 in**
Shaft Extension	**2.85 in**	Assembly/Box Mounting	**F1 Only**
Inverter Load	**Constant 10:1**		

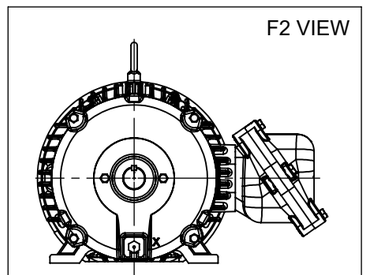
Drawings

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

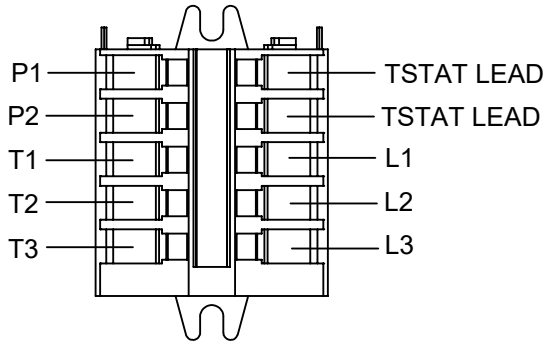
SIZE B | DRAWING NUMBER 035660 | SHEET 1 OF 1

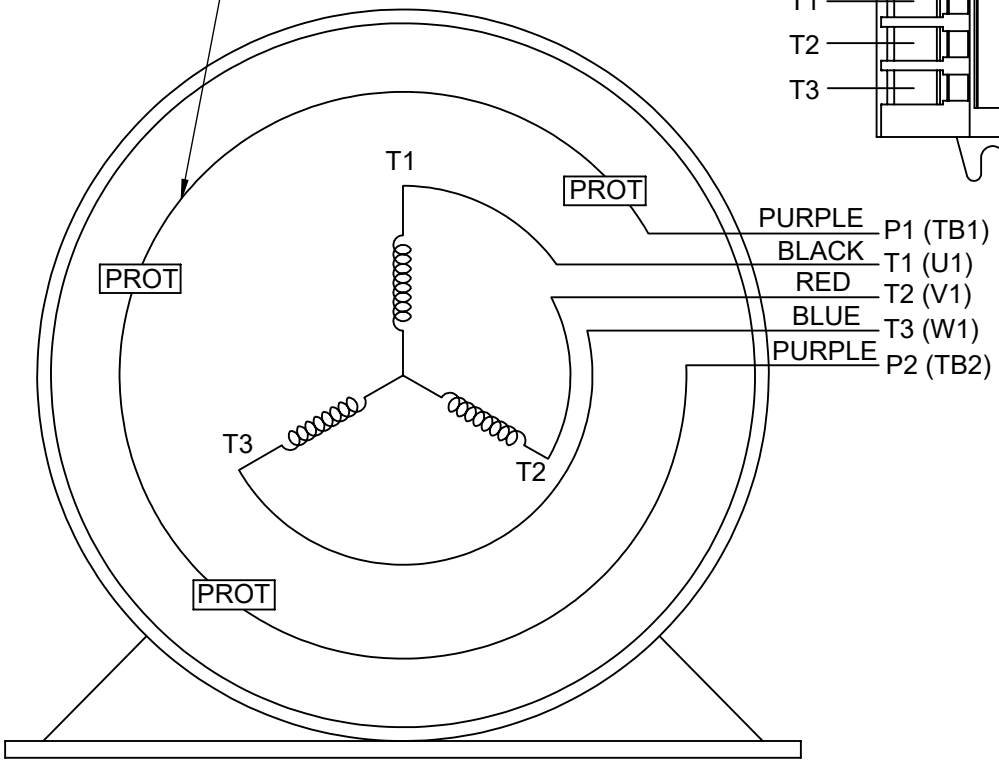
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

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

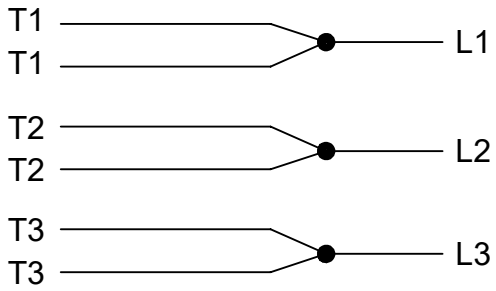




VIEW OF TERMINAL END

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: 20-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

182TTGN6530

Submittal

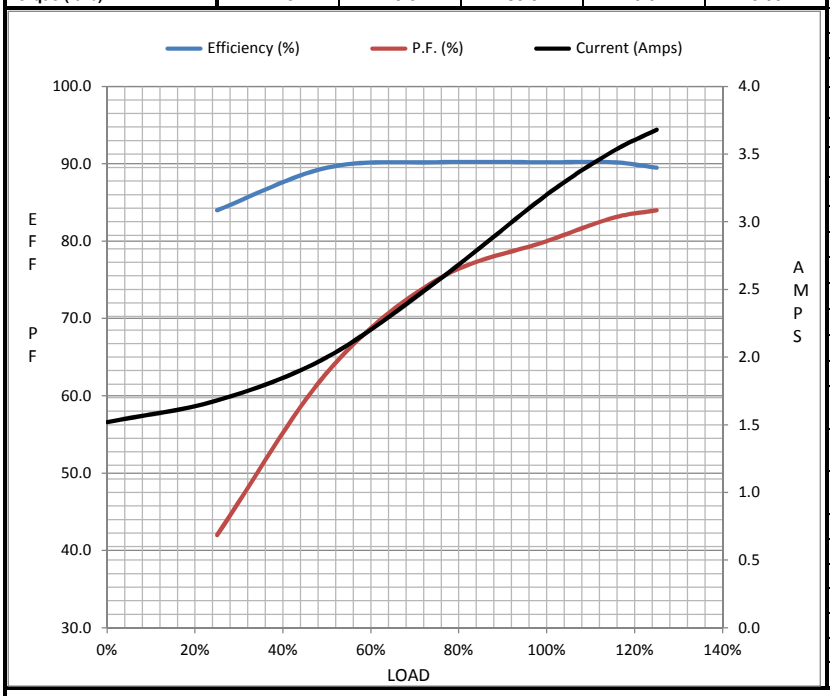
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.52	1.68	2.00	2.56	3.2	3.5	3.7	25.6	
Torque (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.4	11.2	22.5	
RPM	1800	1790	1785	1775	1765	1,760	1755	0	
Efficiency (%)		84.0	89.5	90.2	90.2	90.2	89.5		
P.F. (%)	6.5	42.0	63.0	75.0	80.0	83.0	84.0	47.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1500	1765	1800
Current (Amps)	25.6	24.0	18.4	3.2	1.52
Torque (ft-lb)	22.5	20.0	35.0	9.0	0.00



Information Block

HP	3.0
Sync. RPM	1800
Frame	182
Enclosure	TEFC
Construction	TFS
Voltage	575 V
Frequency	60 Hz
Design	B
LR Code letter	K
Service Factor	1.15
Temp Rise @ FL	30 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.40 Lb-Ft²
Ref Wdg	K1824116 R1
Sound Pressure @ 1M	62 dBA
VFD Rating	CONSTANT 10:1
Outline Dwg	035660-800
Conn. Diag	A-EE7300T

Additional Specifications:

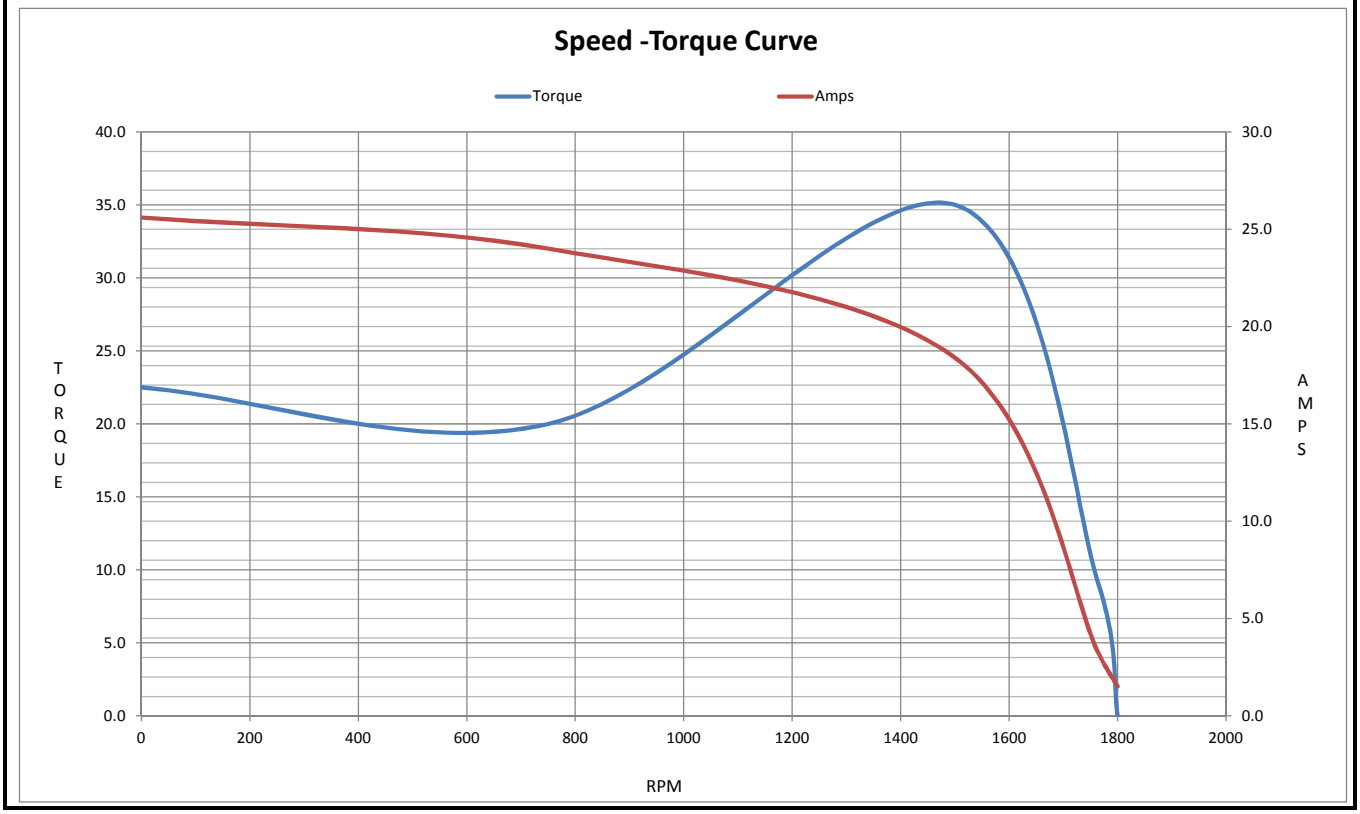
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365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
3.6770	2.5250	7.9440	12.3440	203.7660

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	182TTGN6530 AB	**WINDING#:**	K1824116 R1 3
CONN. DIAGRAM:	A-EE7300T	**ASSEMBLY:**	F1 ONLY
OUTLINE:	035660-800		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	1800	1765	182T	EPFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	3.2	LINE OR INVERTER	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 90.2	3/4 LOAD EFF: 90.2	1/2 LOAD EFF: 89.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80	3/4 LOAD PF: 75	1/2 LOAD PF: 63	89.5	SQ CAGE INV RATED	1.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
9 LB-FT	25.6	22.5 LB-FT 250	35 LB-FT 389	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.4 LB-FT^2	40 LB-FT^2	25 SEC.	2	95 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	TRUE	EXP PROOF CL I GR D CL II GR F&G T3B	FALSE	NONE	BLUE (EPOXY)

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

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	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: 06/27/2017 03:41:08 AM
FORM 3531 REV.3 02/07/99
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