marathon®

Close-Coupled Pump Motors

Model No: 182TTDBD6019
Catalog No: GT4512

Close-Coupled Pump Motor, 5 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 182JPV Frame, DP

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Product Information Packet: Model No: 182TTDBD6019, Catalog No: GT4512 Close-Coupled Pump Motor, 5 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 182JPV Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**5 Hp**
Output KW	**3.7 kW**	Voltage	**575 V**
Speed	**3510 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**182JPV**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**86.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**5.3 A**
Power Factor	**82**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**A**
KVA Code	**K**	Drive End Bearing Size	**6307**
Opp Drive End Bearing Size	**6205**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

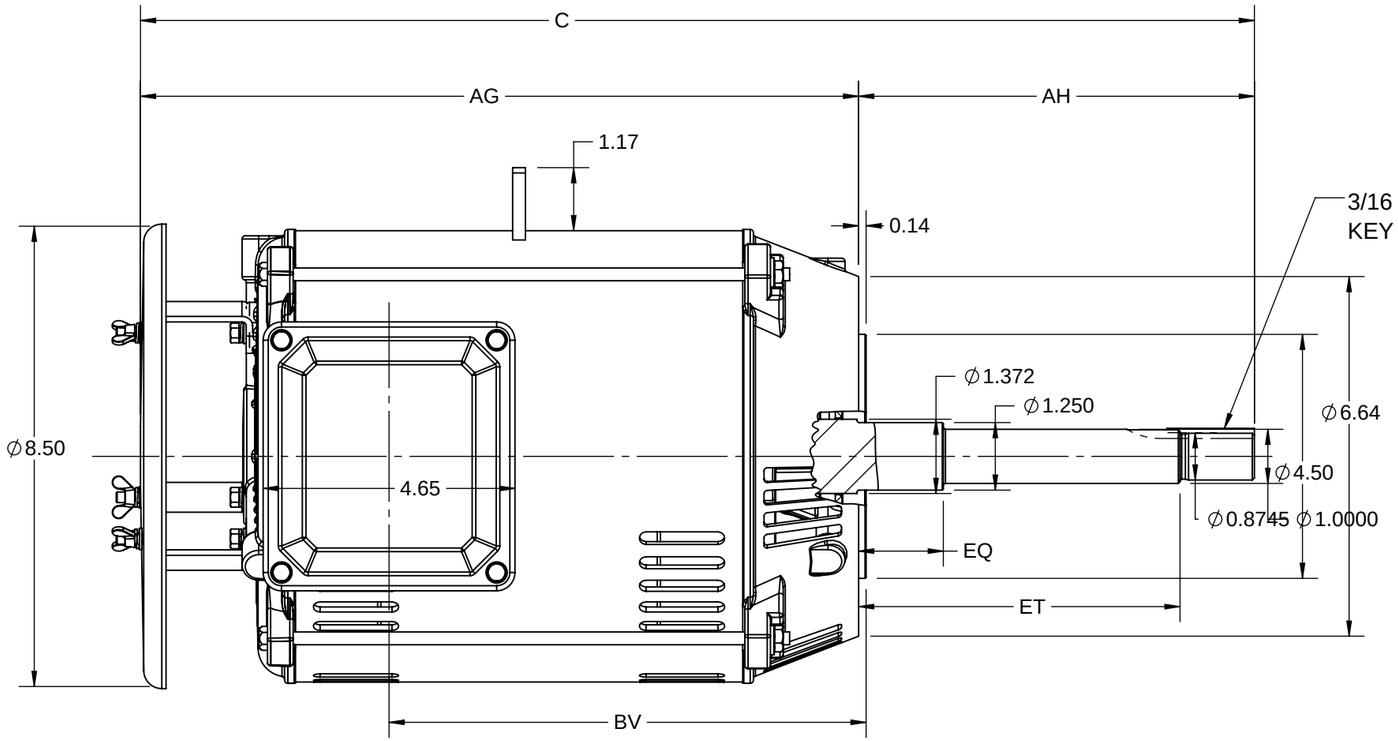
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**4.05 O**	Mounting	**Round**
Motor Orientation	**Shaft Down**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**JP**	Shaft Diameter	**1.000 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 2:1/Variable 10:1**

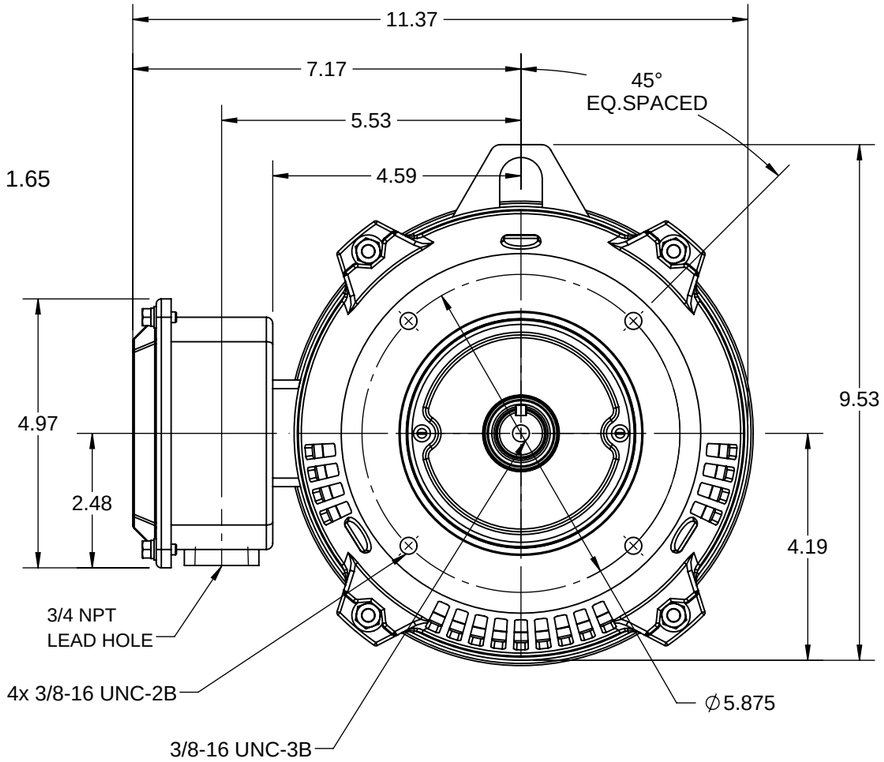
Drawings

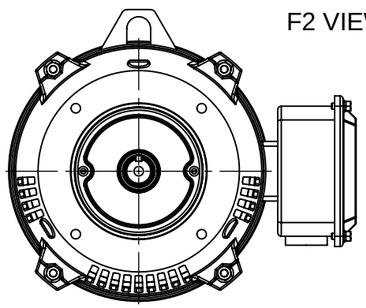
Connection Drawing	**EE7300**	Outline Drawing	**SS621143-100**

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DASH NO.	C	AG	AH	BV	EQ	ET	MOUNTING	FRAME
100	19.58	12.27	7.31	7.81	1.56	5.93	F1 OR F2	182JP
200	20.58	13.27		8.81				184JP







DRAWING REVISION	REVISION BY	REV DATE/© DATE
B	SB	05/19/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0026322	RMS	05/19/2026

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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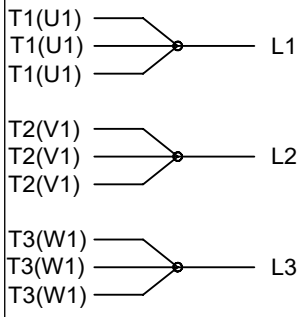
PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY	DESCRIPTION
VS	OUTLINE
DATE: 30-03-2021	NEMA 182/184JP FR ODP RS - FOOTLESS
APPROVED BY: MSH	
DATE: 30-03-2021	
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS621143 / SHEET: 1 OF 1

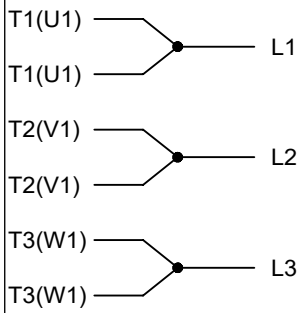
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

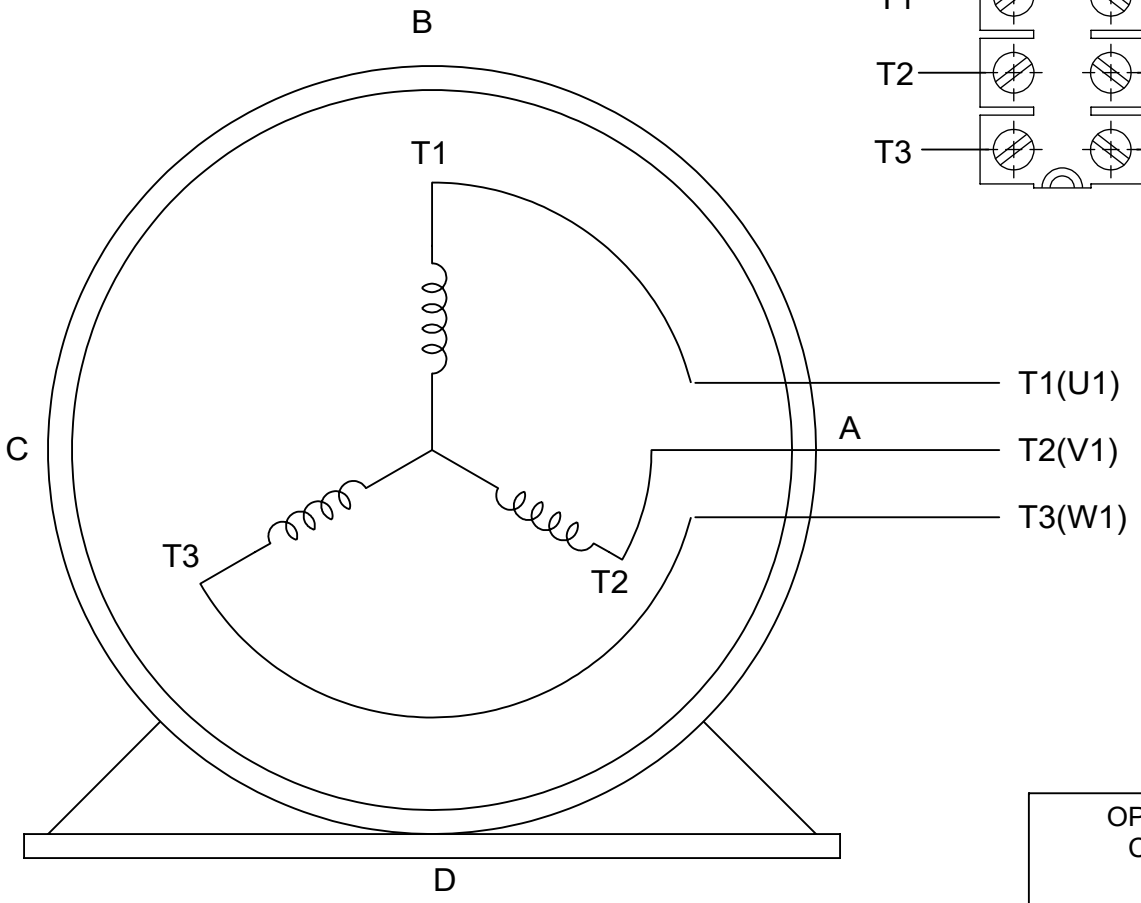
IF MOTOR HAS
9 LEADS



IF MOTOR HAS
6 LEADS



A-9806 DECAL



VIEW OF TERMINAL END

TERMINAL BLOCK WHEN SPECIFIED

OPTIONAL CORD
CONNECTION

L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION: AD	REVISION BY: SB	REV DATE/© DATE: 08/01/2025
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025

REQUEST NUMBER DESCRIPTION
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DRAWN BY: DA	
DATE: 03-26-1993	
APPROVED BY: TB	
DATE: 03-26-1993	
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7300	1 OF 1

Data Sheet

Date: 8/27/2021
Customer:
Attention:
Submitted by:

marathon® Motors

182TTDBD6019

Submittal

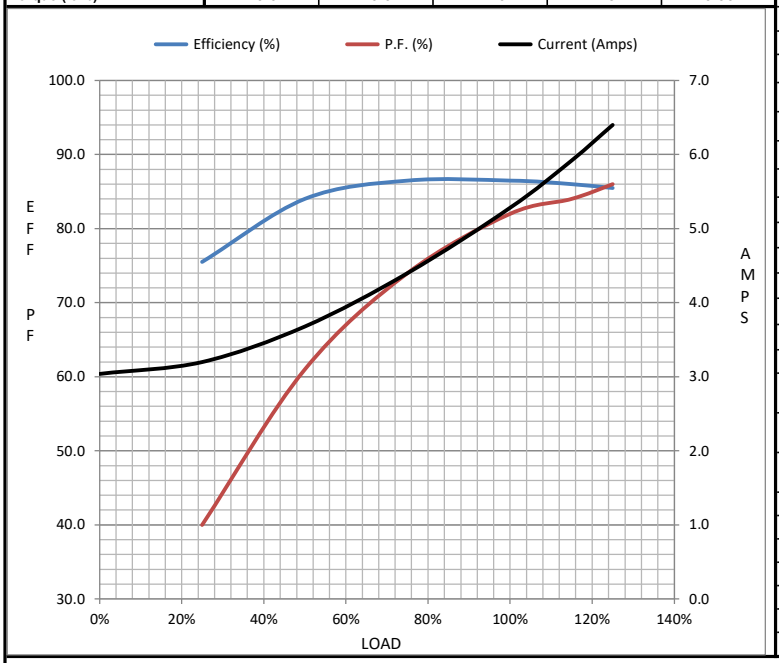
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.0	3.2	3.7	4.4	5.3	5.9	6.4	40.0	
Torque (ft-lb)	0.00	1.80	3.7	5.6	7.5	8.7	9.5	13.0	
RPM	3600	3575	3555	3535	3510	3,495	3485	0	
Efficiency (%)		75.5	84.0	86.5	86.5	86.0	85.5		
P.F. (%)	10.0	40.0	61.0	74.0	82.0	84.0	86.0	55.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2950	3510	3600
Current (Amps)	40.0	35.2	22.0	5.3	3.0
Torque (ft-lb)	13.0	10.0	22.0	7.5	0.00



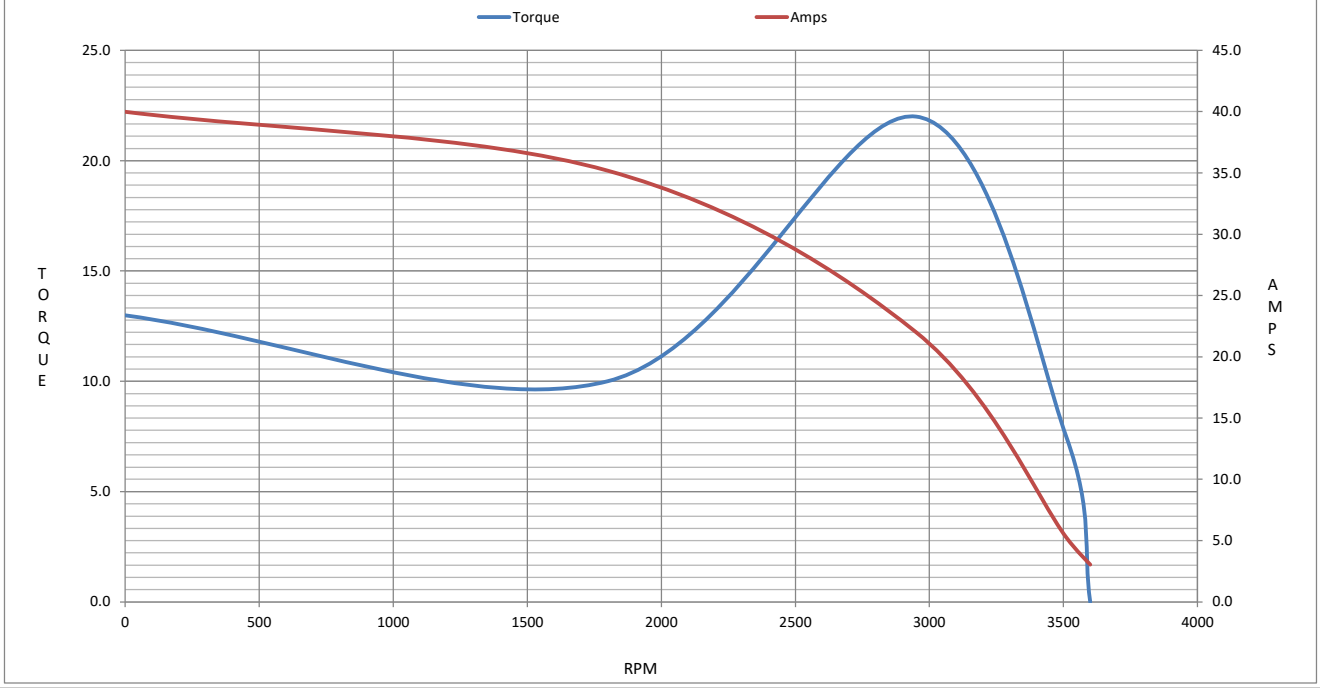
Information Block

HP	5.0	
Sync. RPM	3600	
Frame	182	
Enclosure	DP	
Construction	TDB	
Voltage	575	V
Frequency	60	Hz
Design	A	
LR Code letter	K	
Service Factor	1.15	
Temp Rise @ FL	55	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	0.20	Lb-Ft²
Ref Wdg	HA31122024 NONE	
Sound Pressure @ 1M	55	dBA
VFD Rating	CONSTANT 2:1/VARIABLE 10:1	
Outline Dwg	SS621143-100	
Conn. Diag	EE7300	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
3.4550	1.6390	6.8660	2.1260	119.9560

Speed -Torque Curve



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

marathon® Motors

DATA VOLTS: 575

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7300
OUTLINE: SS621143-100
WINDING: HA31122024 NONE 3
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 182TTDBD6019
CAT #: GT4512
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5	3.7	3600	3510	182JPV	DP	TDB	K	A

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	5.3	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	86.5	3/4 LD EFF	86.5	1/2 LD EFF	84.0	GTD EFF	ELECT. TYPE	
F.L. PF	82.0	3/4 LD PF	74.0	1/2 LD PF	61.0	85.5	SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
7.5 LB-FT	40.0	13.0 LB-FT 173%	22.0 LB-FT 293%	55	

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX.	MOTOR WGT
55 dBA	64 dBA	0.20 LB-FT²	10 LB-FT²	10 SEC.	2	58	LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	SHAFT DOWN	NO	NONE	YES	NONE	BLUE (ENAMEL)

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL	BALL	POLYREX EM	JP	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
6307	6205						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
5.3984375	2.5609375	10.728125	3.321875	187.43125	0.150	ODE

*
NOTES
*

INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE PPR

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE HZ:

PREPARED BY:
DATE: 8/27/2021

FORM: 3531 REV_4 2/27/06

UL: V - LI,ME-INS,CONST UL REC