marathon®

General Purpose Motors

Model No: 182TTDW16049
Catalog No: U426B

General Purpose Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 182T Frame, DP

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Product Information Packet: Model No: 182TTDW16049, Catalog No: U426B General Purpose Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 182T Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**3 & 2 Hp**
Output KW	**2.2 & 1.5 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1760 & 1460 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**182T**
Enclosure	**Drip Proof**	Thermal Protection	**Automatic**
Efficiency	**89.5 & 87.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**8/4 & 6.8/3.4 A**
Power Factor	**79.3**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**K**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6205**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

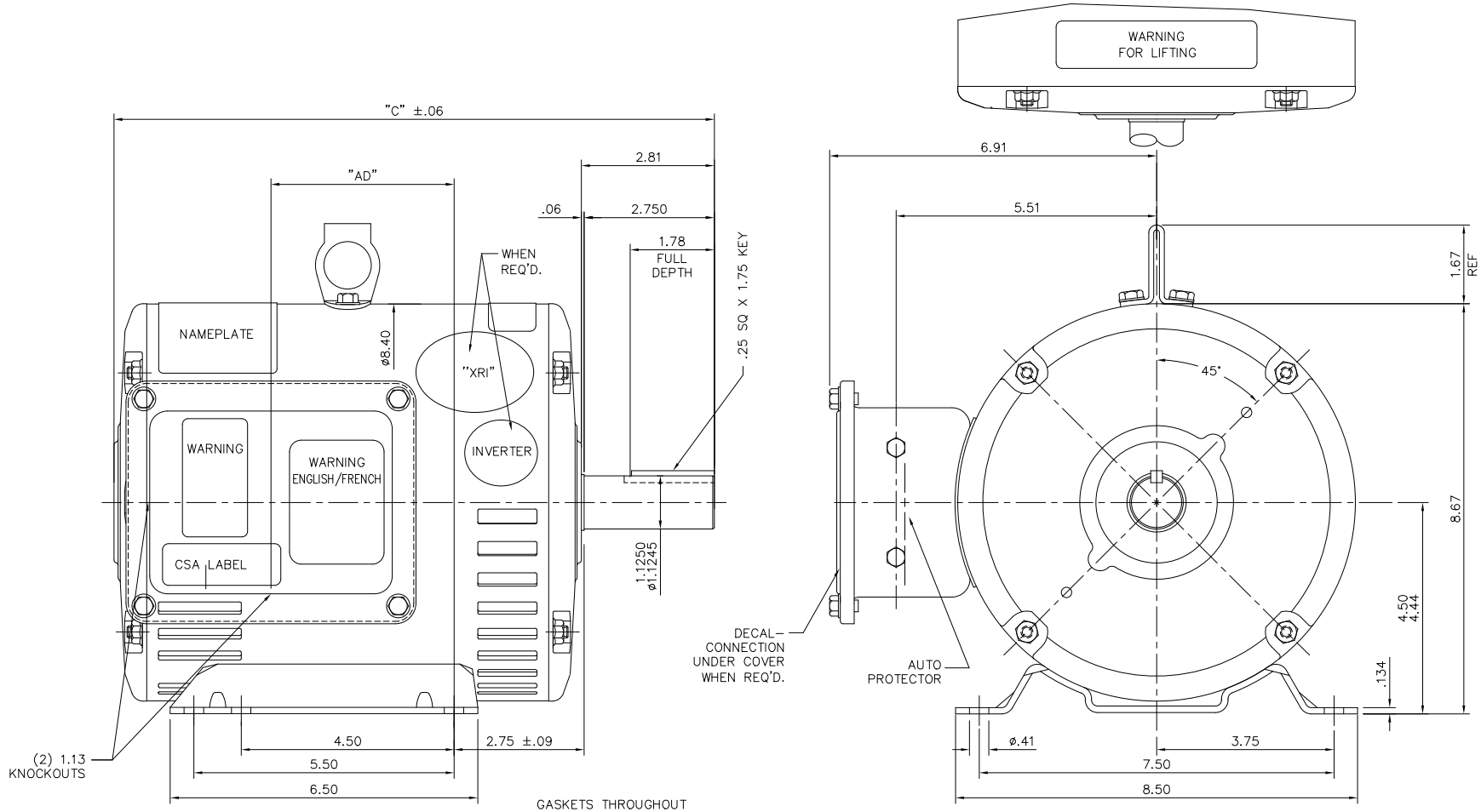
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**4**	Rotation	**Selective Clockwise**
Resistance Main	**3.89 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Overall Length	**13.19 in**
Frame Length	**9.0 in**	Shaft Diameter	**1 1/8 in**
Shaft Extension	**2.81 in**	Assembly/Box Mounting	**F1 Only**

Drawings

Connection Drawing	**005020.02ME**	Outline Drawing	**035658-900**

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DASH NO.	"C"	"AD"
850	12.69	3.87
900	13.19	4.37
950	13.69	4.87
1000	14.19	5.37
1050	14.69	5.87
1100	15.19	6.37
1150	15.69	6.87
1200	16.19	7.37

DRAWING REVISION: J	REVISION BY: SB	REV DATE/ © DATE: 07/25/2025
REQUEST NUMBER: CR-0023600	APPROVED BY: SBD	DATE: 07/25/2025

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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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: YS	
DATE: 03/20/08	
APPROVED BY:	
DATE:	
REFERENCE: 035621	
THIRD ANGLE PROJECTION	

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DESCRIPTION
OUTLINE
180T FRAME - DRIP PROOF - RIGID

MATERIAL | PROCESS/FINISH

SIZE: B | DRAWING NUMBER: 035658 | SHEET: 1 OF 1

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Data Sheet

Date: 19-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

182TTDW16049

Submittal

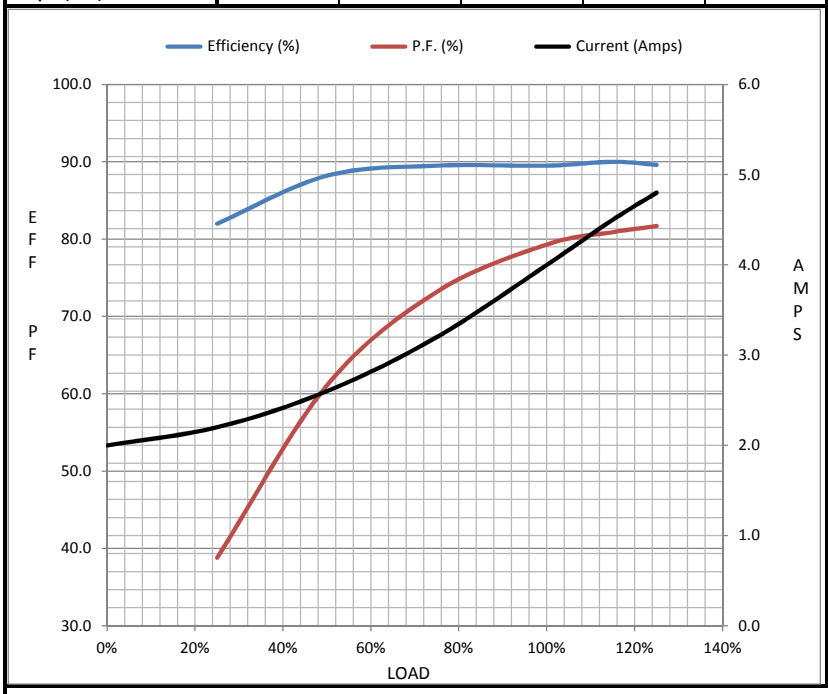
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.00	2.20	2.60	3.2	4.0	4.5	4.8	34.2	
Torque (ft-lb)	0.00	2.19	4.4	6.6	8.9	10.3	11.2	22.0	
RPM	1800	1790	1779	1767	1760	1,752	1745	0	
Efficiency (%)		82.0	88.2	89.5	89.5	90.0	89.6		
P.F. (%)	6.9	38.8	61.1	73.2	79.3	80.9	81.7	50.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	330	1500	1760	1800
Current (Amps)	34.2	33.5	22.0	4.0	2.00
Torque (ft-lb)	22.0	14.8	35.8	8.9	0.00



Information Block

HP	3.0
Sync. RPM	1800
Frame	182
Enclosure	DP
Construction	TDW
Voltage	230/460#190/380 V
Frequency	60 Hz
Design	B
LR Code letter	K
Service Factor	1.15
Temp Rise @ FL	31 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.36 Lb-Ft²
Ref Wdg	T84173 DR
Sound Pressure @ 1M	51 dBA
VFD Rating	NONE
Outline Dwg	035658-900
Conn. Diag	005020.02ME

Additional Specifications:

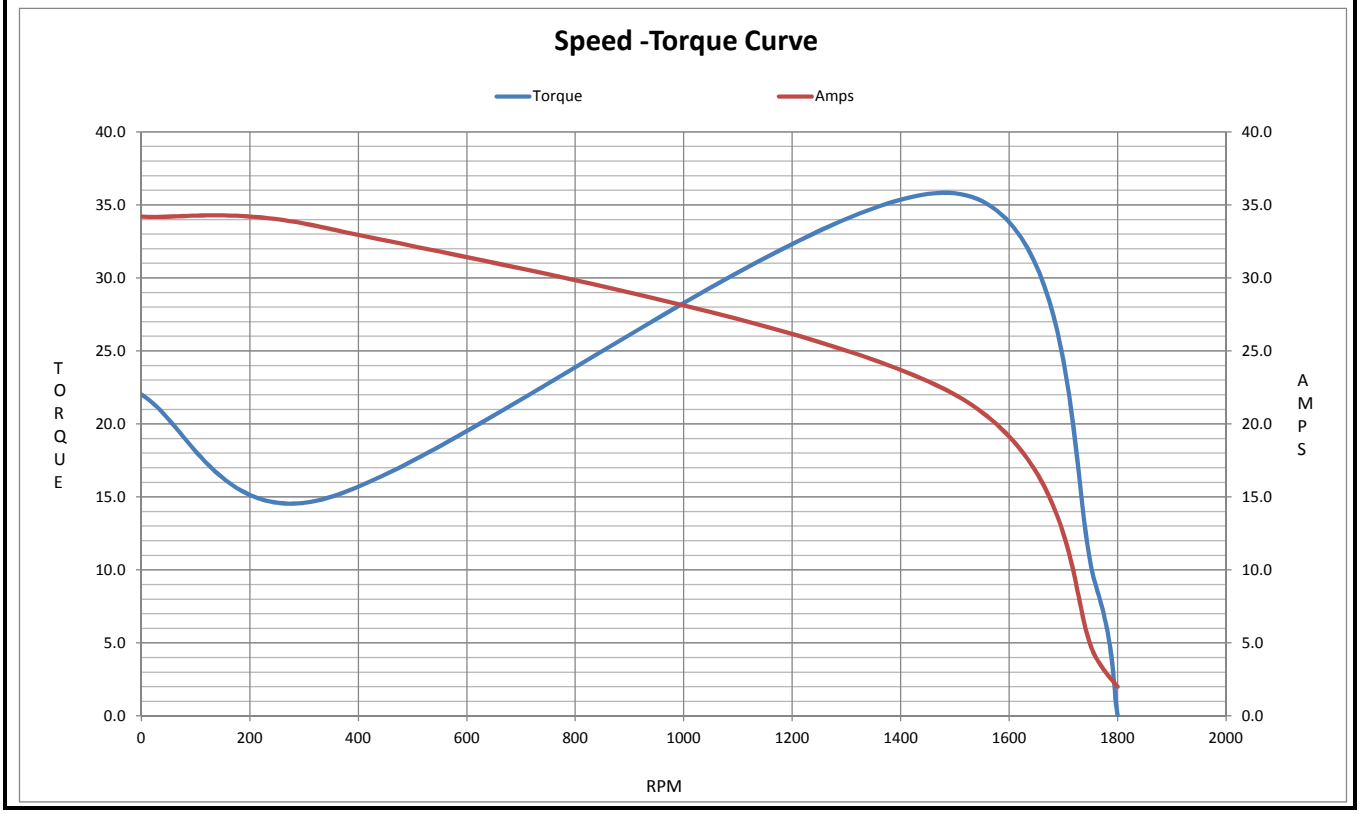
0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	182TTDW16049 AA	**WINDING#:**	T84173 DR 9
CONN. DIAGRAM:	005020.02ME	**ASSEMBLY:**	F1 ONLY
OUTLINE:	035658-900		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	1800	1760&1475	182T	DP	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	8/4&7.2/3.5	ACROSS THE LINE	CONTINUOUS	F4	1.15/1.15	40	3300

FULL LOAD EFF: 89.5&88.5	3/4 LOAD EFF: 89.5	1/2 LOAD EFF: 88.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 79.3&75	3/4 LOAD PF: 73.2	1/2 LOAD PF: 61.1	88.5	SQ CAGE IND RUN	4 / 2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
8.9 LB-FT	68.4 / 34.2	22 LB-FT 247	35.8 LB-FT 402	31

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
51 dBA	61 dBA	0.357 LB-FT^2	55 LB-FT^2	15 SEC.	2	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6206	BALL 6205	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	AUTOMATIC	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

* NOTES *

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FORM 3531 REV.3 02/07/99
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