

General Purpose Motors

Model No: 182TTDW16008

Catalog No: U908A

General Purpose Motor, 5 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 182T Frame, DP

Product Information Packet: Model No: 182TTDW16008, Catalog No: U908A General Purpose Motor, 5 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 182T Frame, DP

Nameplate Specifications

Phase	3	Output HP	5 Hp
Output KW	3.7 kW	Voltage	575 V
Speed	3500 r/min	Synchronous RPM	3600 r/min
Service Factor	1.15	Frame	182T
Enclosure	Drip Proof	Thermal Protection	No Protection
Efficiency	86.5 %	Ambient Temperature	40 °C
Frequency	60 Hz	Current	5.0 A
Power Factor	86	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	J	Drive End Bearing Size	6206
Opp Drive End Bearing Size	6205	UL	Recognized
CSA	Y	CE	Y
IP Code	22	Number of Speeds	1

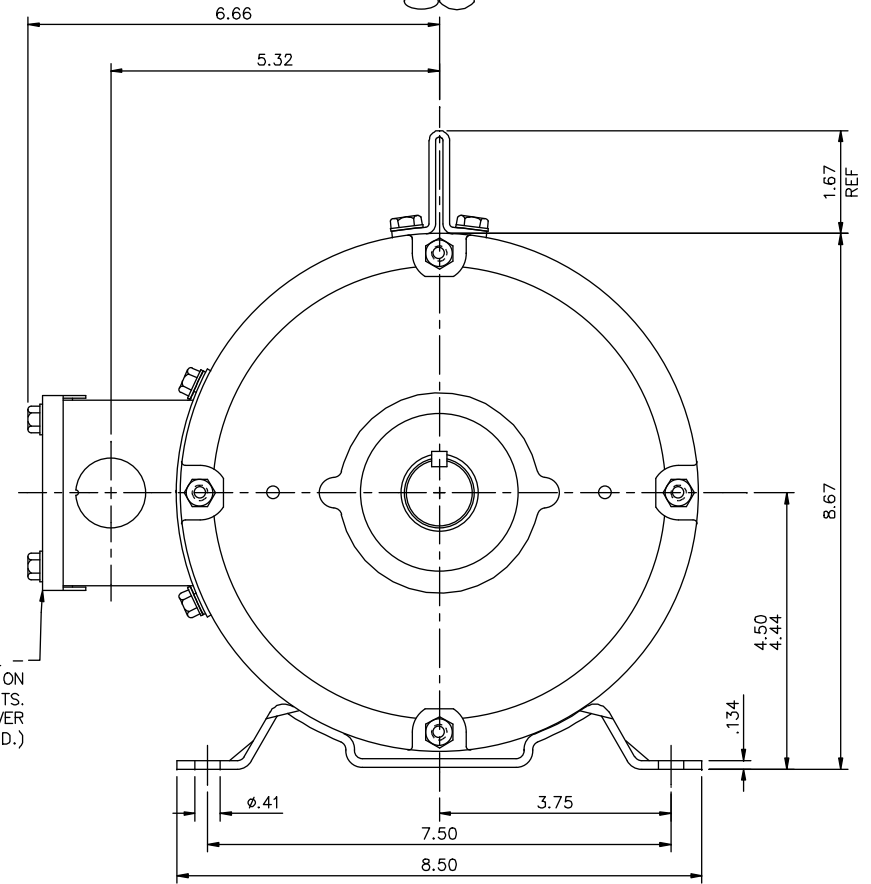
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	2.55 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/F2 Capable

Drawings

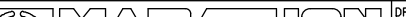
Connection Drawing	005102.01ME	Outline Drawing	035530-900
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Diagram illustrating the front view of the machine. A central rectangular label reads "WARNING FOR LIFTING". Below the label is a lifting mechanism with two vertical supports and a horizontal bar. The machine has a wide, flat base with rounded corners.

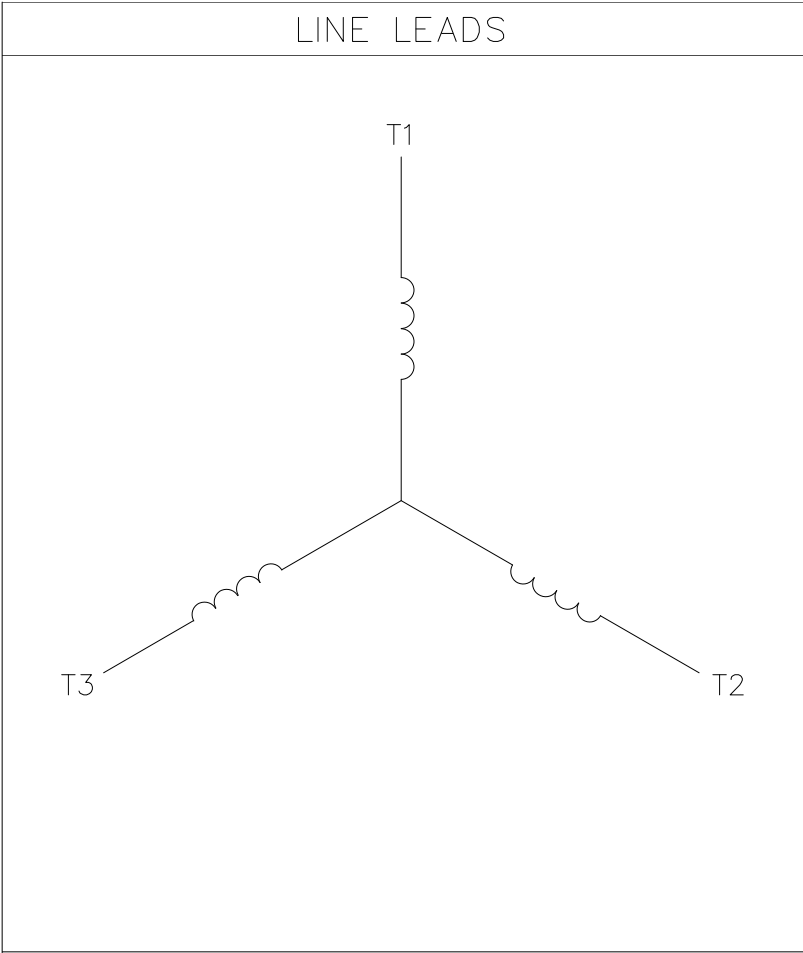
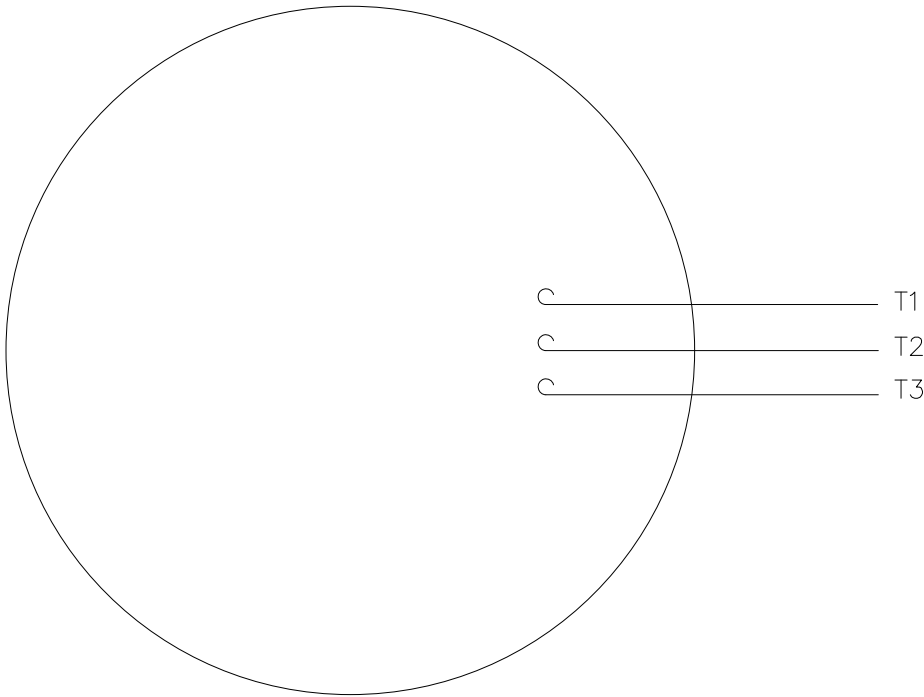


DECAL -
CONNECTION
& T'STATS.
UNDER COVER
(WHEN REQ'D.)

DASH NO.	"C"	"AD"
850	12.69	5.25
900	13.19	5.75
950	13.69	6.25
1000	14.19	6.75
1050	14.69	7.25
1100	15.19	7.75
1150	15.69	8.25

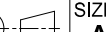
				TOLERANCES UNLESS SPECIFIED				DRAWN YS 06/21/07		
				DEC.	INCHES			CHK		
				.X	±.1			APPD		
03	REMOVED INV & XRI DECALS AS PER ISSAC 12-5294	GR 10/30/12	SR .XX	±.03	TITLE		OUTLINE – 180T FRAME		SCALE 1=2	
02	ADDED STICKER LOCATIONS PER ECR 91487	JWM 12/04/07	.XXX	±.005			DRIP PROOF – RIGID		REF 035464	
01	TITLE BLOCK WAS LEESON	YS 7/16/2007	.XXX	±.0005	MAT'L				FMF	
NO.	REVISION	BY & DATE	CHK	ANG ±1/2"	FINISH				PREV	
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VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



CONNECT LEADS AS FOLLOWS
FOR FOUR CONDUCTOR CORD ()

CORD	L1 (RED)	L2 (WHITE)	L3 (BLACK)	(GREEN)
MOTOR	T1	T2	T3	GROUND

DRAWING REVISION D	REVISION BY SV	REV DATE/ © DATE 05/11/2026	TOLERANCES (EXCEPT AS NOTED): DEC. INCH mm ANGLE .X ±0.1 [±3] ±0.5° .XX ±0.01 [±0.3] .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: 125 / 3.2 / INCH mm mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY				DRAWN BY RDW		marathon™			
REQUEST NUMBER CR-0026249	APPROVED BY RMS	DATE 05/11/2026					DATE 05/01/02					
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED							APPROVED BY		DESCRIPTION EXTERNAL WIRING DIAGRAM TYPE "T" W/O PROTECTOR			
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			REFERENCE		MATERIAL DECAL - 004169			PROCESS/FINISH				
			THIRD ANGLE PROJECTION				SIZE A	DRAWING NUMBER 4 of 6 005102-01ME		SHEET 1 OF 1		

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



182TTDW16008

Submittal

Data @ 208 V

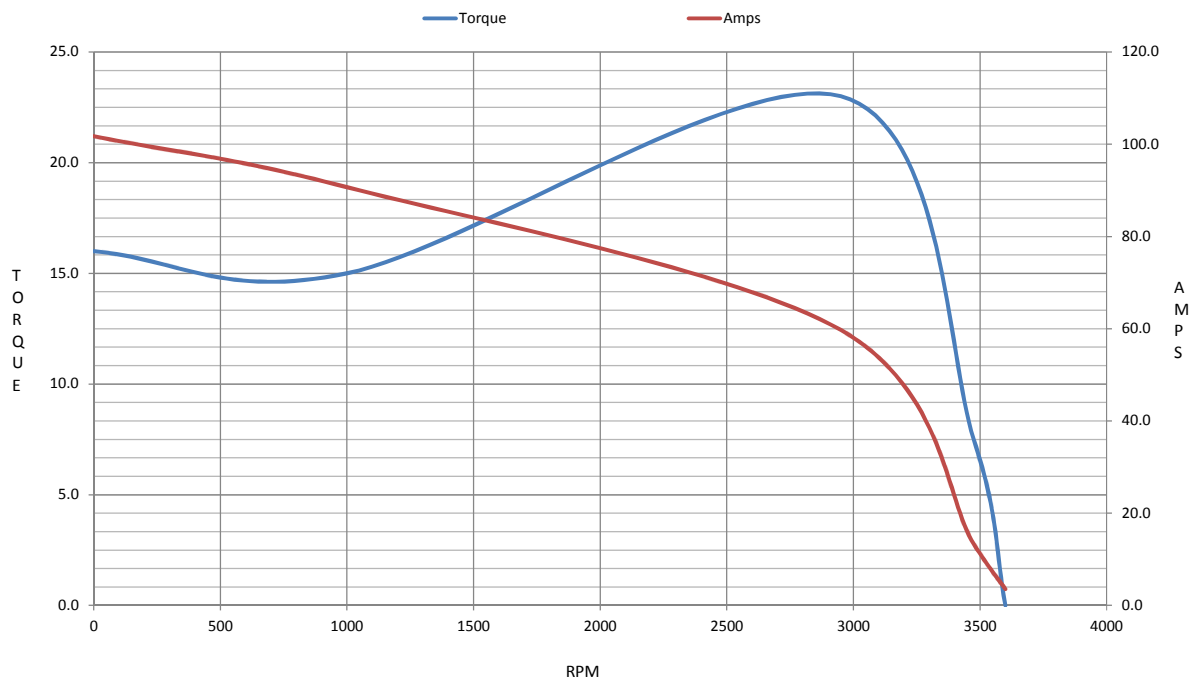
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.5	5.5	7.7	10.4	13.3	15.5	17.0	102	
Torque (ft-lb)	0.00	1.90	3.7	5.6	7.5	8.7	9.5	16.0	
RPM	3600	3570	3540	3505	3475	3,445	3430	0	
Efficiency (%)		82.5	87.5	87.5	86.5	85.5	84.5		
P.F. (%)	18.0	59.0	78.0	86.0	89.0	89.0	90.0	50.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block				
Speed (RPM)	0	1000	2950	3475	3600	HP		5.0		
Current (Amps)	102	90.7	59.7	13.3	3.5	Sync. RPM		3600		
Torque (ft-lb)	16.0	15.0	23.0	7.5	0.00	Frame		182		
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS) LOAD	Enclosure		DP							
	Construction		TDR							
	Voltage		208 V							
	Frequency		60 Hz							
	Design		B							
	LR Code letter		J							
	Service Factor		1.15							
	Temp Rise @ FL		35 ° C							
	Duty		CONT							
	Ambient		40 ° C							
	Elevation		1,000 feet							
	Rotor/Shaft wk²		0.24 Lb-Ft²							
	Ref Wdg		K182264 NONE							
	Sound Pressure @ 1M		71 dBA							
	VFD Rating		VARIABLE 10:1							
	Outline Dwg		NONE							
	Conn. Diag		A-EE7340							
Additional Specifications:										
0										
0										
					EQUIV CKT (OHMS / PHASE)					
		R1	R2	X1	X2	Xm				
		0.4000	0.2880	0.9660	0.5240	27.3590				

Speed -Torque Curve



CERTIFICATION DATA SHEET

Model#: 182TTDW16008 AA

WINDING#: T82117 R1 4

CONN. DIAGRAM: 005102.01ME

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: 035530-900

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5	3.70	3600	3500	182T	DP	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	5	ACROSS THE LINE	CONTINUOUS	F4	1.15	40	3300

FULL LOAD EFF: 86.5	3/4 LOAD EFF: 86.5	1/2 LOAD EFF: 84.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86	3/4 LOAD PF: 82	1/2 LOAD PF: 73	83.8	SQ CAGE IND RUN	2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
7.5 LB-FT	36.4	16.1 LB-FT 215	25 LB-FT 333	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
71 dBA	81 dBA	0.18 LB-FT^2	7 LB-FT^2	15 SEC.	2	64 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	BALL						
6206	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	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

* N O T E S *	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			

DATE: 06/27/2017 01:38:18 AM

FORM 3531 REV.3 02/07/99

** Subject to change without notice.