

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 182TTFC6077

Catalog No: E823A

1.5 HP General Purpose Motor, 3 phase, 1200 RPM, 230/460 V, 182T Frame, TEFC
General Purpose Motors



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2021 Regal Rexnord Corporation, All Rights Reserved. MC017097E

RegalRexnord

Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	230/460 V
Current	4.6/2.3 A	Speed	1185 rpm
Service Factor	1.15	Phase	3
Efficiency	87.5 %	Power Factor	68
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Frame	182T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

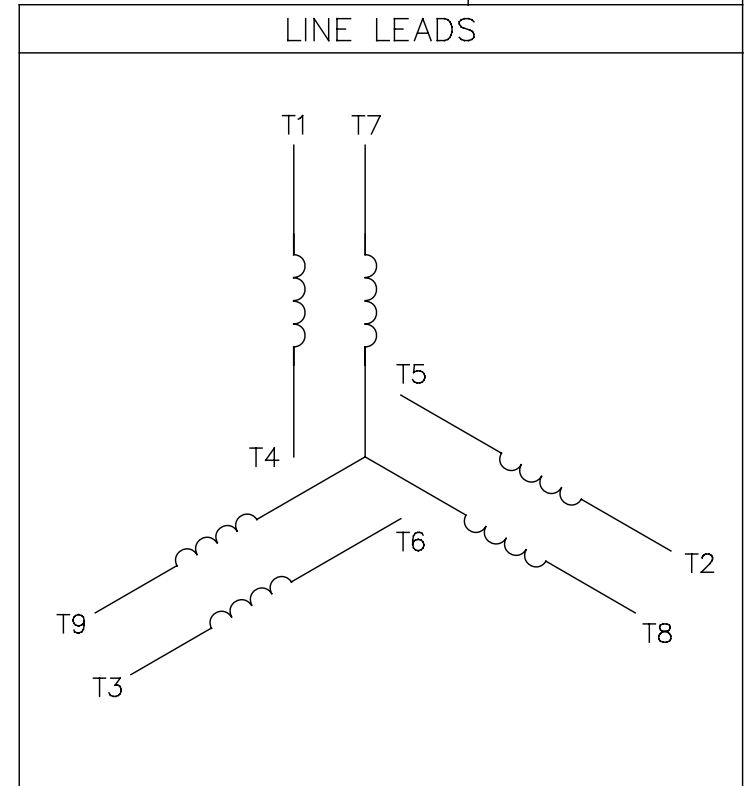
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	4.65 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	16.14 in
Shaft Diameter	1.130 in	Shaft Extension	2.88 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	005010.01	Outline Drawing	SS622136


1/11/2012 8:13:21 AM - Converted by Connexus

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.			DRAWN RDW 04/12/02		
				DEC.	INCHES				CHK		
				.X	±.1				APPD		
				.XX	±.01				SCALE 1=1		
				.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR			REF FIG.2-51		
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	.XXXX	±.0005				MAT'L. DECAL - 004014		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH			PREV		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP 04/12/02		CAD FILE 00501001		SIZE A	DRAWING NO. 005010-01		REV. A
				DIST BRF-NLV							

CERTIFICATION DATA SHEET

Model#: 182TTF6077 AA

WINDING#: T08706009 NONE 3

CONN. DIAGRAM: 005010.01

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: SS622136

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1 1/2&1	1.12&.75	1200	1185&988	182T	TEFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	4.6/2.3&4/2	ACROSS THE LINE	CONTINUOU S	F2	1.15/1.15	40	3300

FULL LOAD EFF: 87.5&87.5	3/4 LOAD EFF: 87.5	1/2 LOAD EFF: 84	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 68&63.5	3/4 LOAD PF: 60	1/2 LOAD PF: 47	86.5	SQ CAGE IND RUN	3 / 1.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
6.6 LB-FT	32 / 16	13.5 LB-FT 205	22.7 LB-FT 342	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
50 dBA	60 dBA	- LB-FT^2	- LB-FT^2	20 SEC.	2	90 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	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6206	6205						

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

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

*
N
O
T
E
S
*

DATE: 06/27/2017 02:31:42 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 12/12/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



182TTC6077

Submittal

Data @ 460 V

Motor Load Data

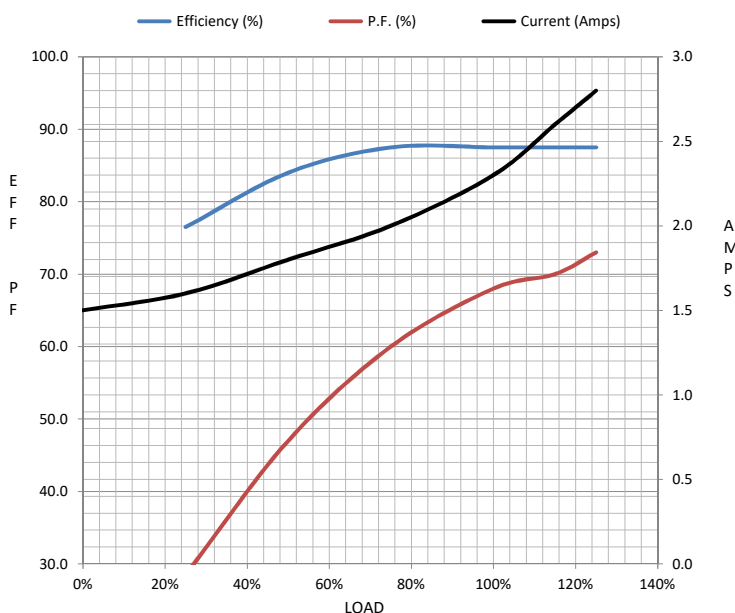
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.50	1.60	1.80	2.00	2.30	2.60	2.80	16.0	
Torque (ft-lb)	0.00	1.60	3.3	5.0	6.6	7.6	8.4	13.5	
RPM	1200	1196	1192	1188	1185	1,182	1178	0	
Efficiency (%)		76.5	84.0	87.5	87.5	87.5	87.5		
P.F. (%)	6.5	28.5	47.0	60.0	68.0	70.0	73.0	42.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	350	1055	1185	1200
Current (Amps)	16.0	15.0	7.0	2.30	1.50
Torque (ft-lb)	13.5	12.0	22.7	6.6	0.00

Information Block

HP	1.5			
Sync. RPM	1200			
Frame	182			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	35	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.00	Lb-Ft²		
Ref Wdg	T08706009 NONE			
Sound Pressure @ 1M	50	dBA		
VFD Rating	NONE			
Outline Dwg	SS622136			
Conn. Diag	005010.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
2.6980	1.5620	9.3720	12.9220	156.2000



Speed -Torque Curve

