PRODUCT INFORMATION PACKET

Model No: 182TTGS1026
Catalog No: U939
Other Purpose Motor, 3 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 182T Frame, EPFC

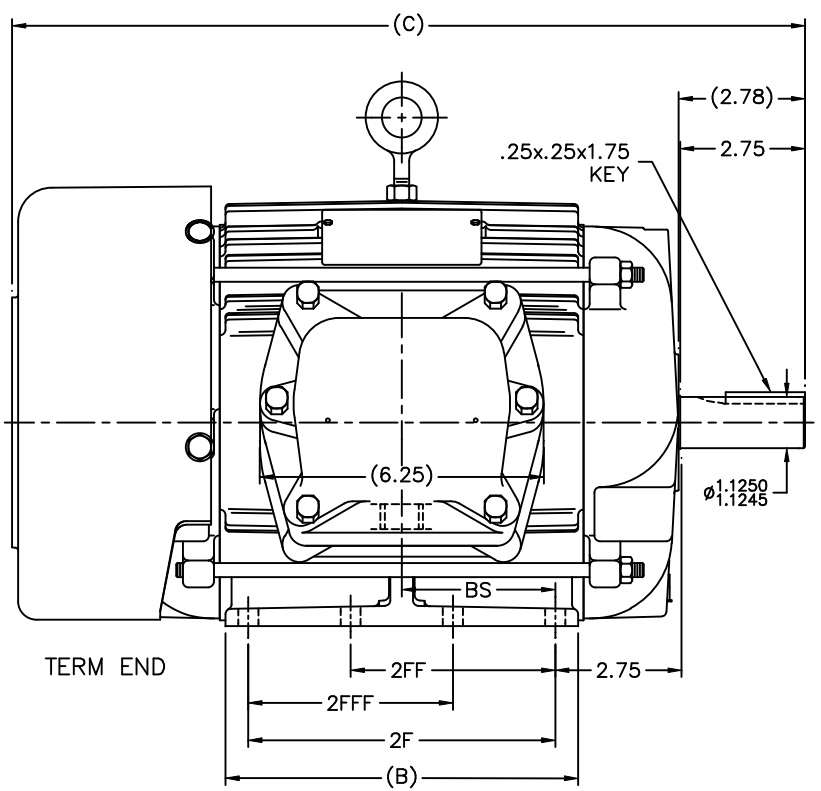
Nameplate Specifications

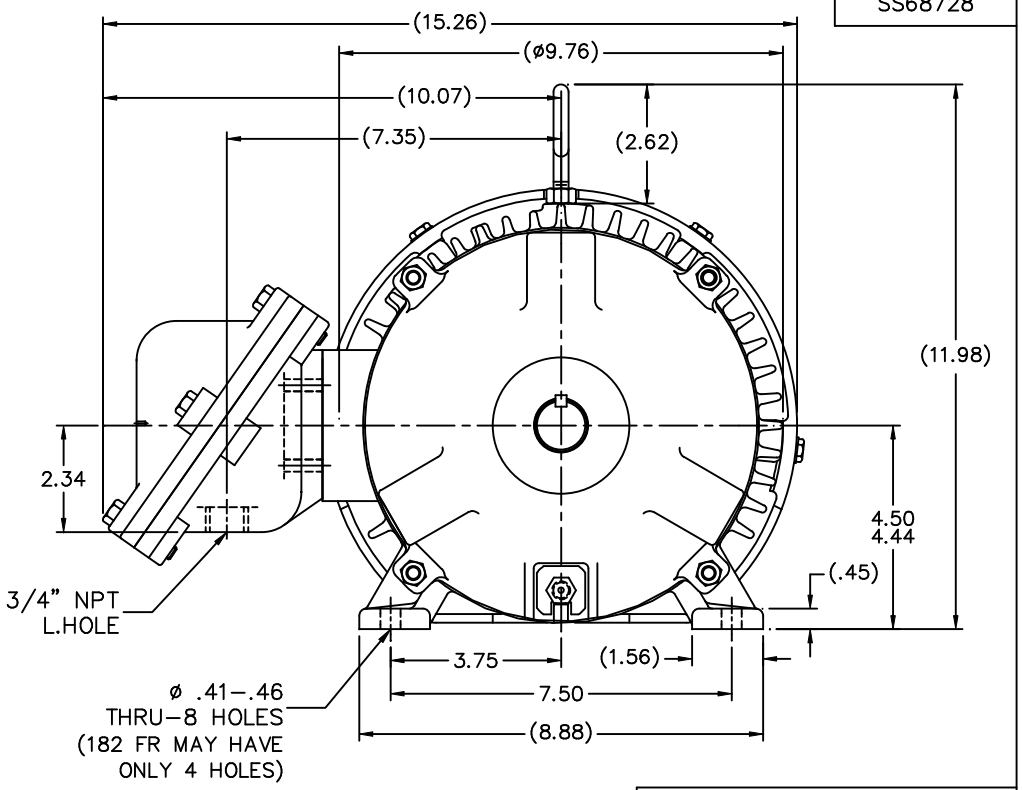
Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	8.4/4.2 A	Speed	1760 rpm
Service Factor	1.15	Phase	3
Efficiency	87.5 %	Power Factor	76
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Frame	182T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	No	CSA	N
CE	N	IP Code	54
Hazardous Location	DIV 1 EXP PROOF CL I GR D T2A	Number of Speeds	1

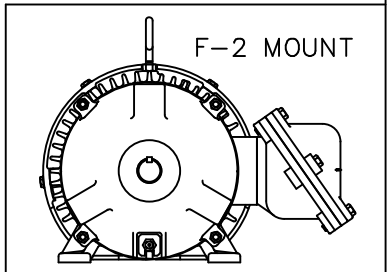
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	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	16.19 in
Frame Length	6.75 in	Shaft Diameter	1.125 in
Shaft Extension	2.78 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	B-SS68728-675	Connection Drawing	A-EE7308

SS68728







NOTES:
1– CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2– CONDUIT BOX CAN BE 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".
3– NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	2F	2FF	2FFF	BS	C CAST FAN GUARD	C STEEL FAN GUARD
575	182T	5.50	4.50	–	–	2.25	15.19	14.87
03-10-99 675	182T	6.50	5.50	–	–	2.75	16.19	15.87
675	182/4T	6.50	5.50	4.50	4.50	2.75	16.19	15.87
800	182T	7.75	6.75	4.50	4.50	3.37	17.44	17.12
800	184T	7.75	6.75	5.50	5.50	3.37	17.44	17.12

NO.	REVISION	BY & DATE	CHK
8	ADD EXPLOSION–PROOF NOTE AND ARRANGE TO STD.		
	PER MU76518	RWR 11-20-2006	ML
7	ADDED F–2 VIEW MU69527	CAV 11-14-2005	ML
6	UPDATED C'BOX GEOMETRY CN 31842	DRS 09-26-2002	ML
5	REMOVED HOLE FROM FAN GUARD	CTO 01-17-2002	ML
4	REVISED DASH 675 TO READ 182/4T CN 27451	TJB 05-03-2001	ML

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

MARATHON ELECTRIC

DRAWN DRS 02-10-1999
CHK ML 03-01-1999
APPD GK 03-01-1999
SCALE 3=8
REF
FMF
PREV

TITLE OUTLINE
180–184T FR. – BB – TS – EPFC
MAT'L.
FINISH
CAD FILE ss68728

RFP
DIST LB

SIZE	DRAWING NO.	PAGE OF	REV.
B	SS68728		8

EE7308

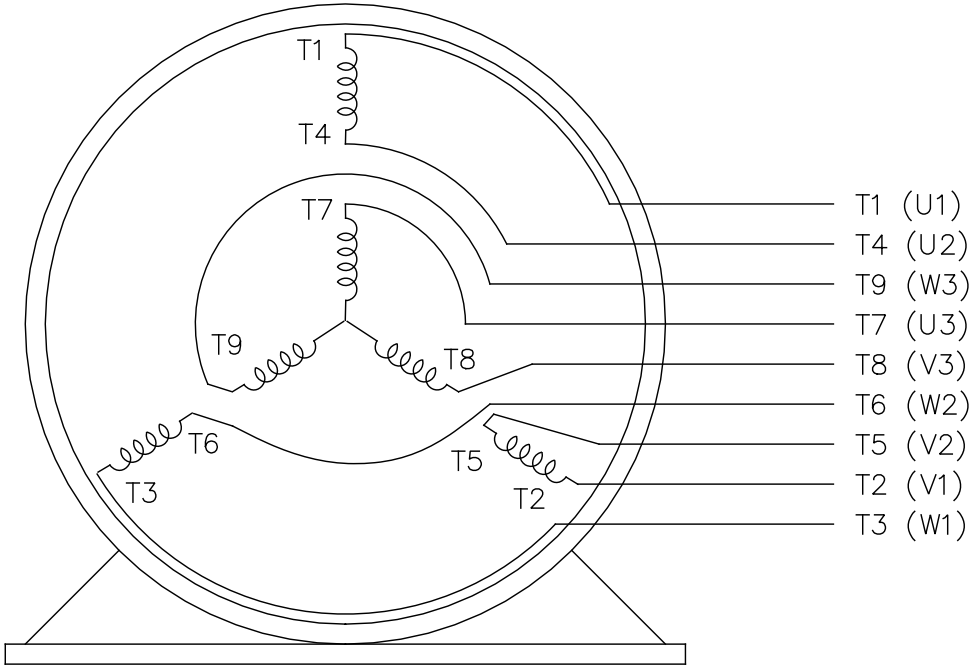
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

NO.	REVISION	BY & DATE	CHK
5	CHG TO REGAL LOGO	SL 09/10/2015	AB
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS
1	REDRAWN	RM 11/20/1990	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

Regal Beloit America, Inc.

TITLE CONNECTION DIAGRAM
3ø – DUAL VOLTAGE MOTOR

MAT'L.
FINISH
CAD FILE ee7308
RFP
DIST WP

DRAWN RM	11/20/1990
CHK ML	11/21/1990
APPD SAS	04/24/2003
SCALE	1=1
REF	
FMF	
PREV	

SIZE A | DRAWING NO. EE7308 | PAGE OF | REV. 5

CERTIFICATION DATA SHEET

Model#:	182TTGS1026 AR	**WINDING#:**	K1824117 R1 1
CONN. DIAGRAM:	A-EE7308	**ASSEMBLY:**	F1 ONLY
OUTLINE:	B-SS68728-675		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	1800	1760&1470	182T	EPFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	8.4/4.2&7.4/3.7	ACROSS THE LINE	CONTINUOUS	F3	1.15/1.15	40	3300

FULL LOAD EFF: 87.5&88.5	3/4 LOAD EFF: 87.5	1/2 LOAD EFF: 85	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 76&70	3/4 LOAD PF: 68	1/2 LOAD PF: 55	85.5	SQ CAGE IND RUN	5 / 2.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
9 LB-FT	64 / 32	20 LB-FT 222	35 LB-FT 389	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.3 LB-FT^2	34 LB-FT^2	25 SEC.	2	75 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 T2A	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6206	BALL 6205	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON

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

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DATE: 06/27/2017 03:44:28 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 12/13/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

182TTGS1026

Submittal

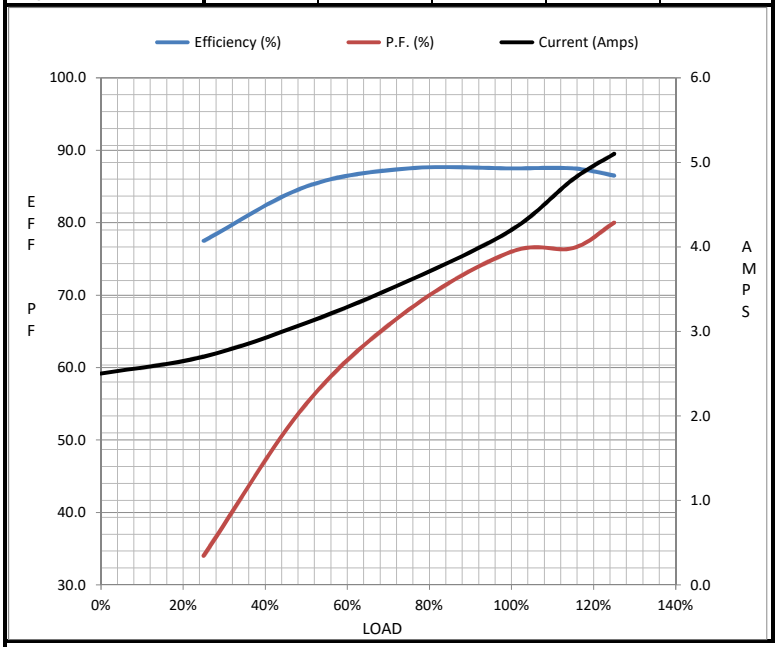
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.50	2.70	3.1	3.6	4.2	4.8	5.1	32.0	
Torque (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.4	11.2	20.0	
RPM	1800	1790	1780	1770	1760	1,755	1750	0	
Efficiency (%)		77.5	85.0	87.5	87.5	87.5	86.5		
P.F. (%)	6.5	34.0	55.0	68.0	76.0	76.5	80.0	52.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1485	1760	1800
Current (Amps)	32.0	30.0	18.5	4.2	2.50
Torque (ft-lb)	20.0	18.5	35.0	9.0	0.00



Information Block		
HP	3.0	
Sync. RPM	1800	
Frame	182	
Enclosure	EPFC	
Construction	TGS	
Voltage	230/460#190/380	V
Frequency	60	Hz
Design	B	
LR Code letter	K	
Service Factor	1.15	
Temp Rise @ FL	45	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.30	Lb-Ft²
Ref Wdg	K1824117 R1	
Sound Pressure @ 1M	62	dBA
VFD Rating	NONE	
Outline Dwg	B-SS68728-675	
Conn. Diag	A-EE7308	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
2.7810	1.5800	5.2310	7.0570	98.3840