PRODUCT INFORMATION PACKET



Model No: 184TPNSB10236 Catalog No: SY007A

SyMAX® Fan & Blower Motor, 5 HP, 3 Ph, 90 Hz, 230/460 V, 1800 RPM, 184TC Frame, TENV



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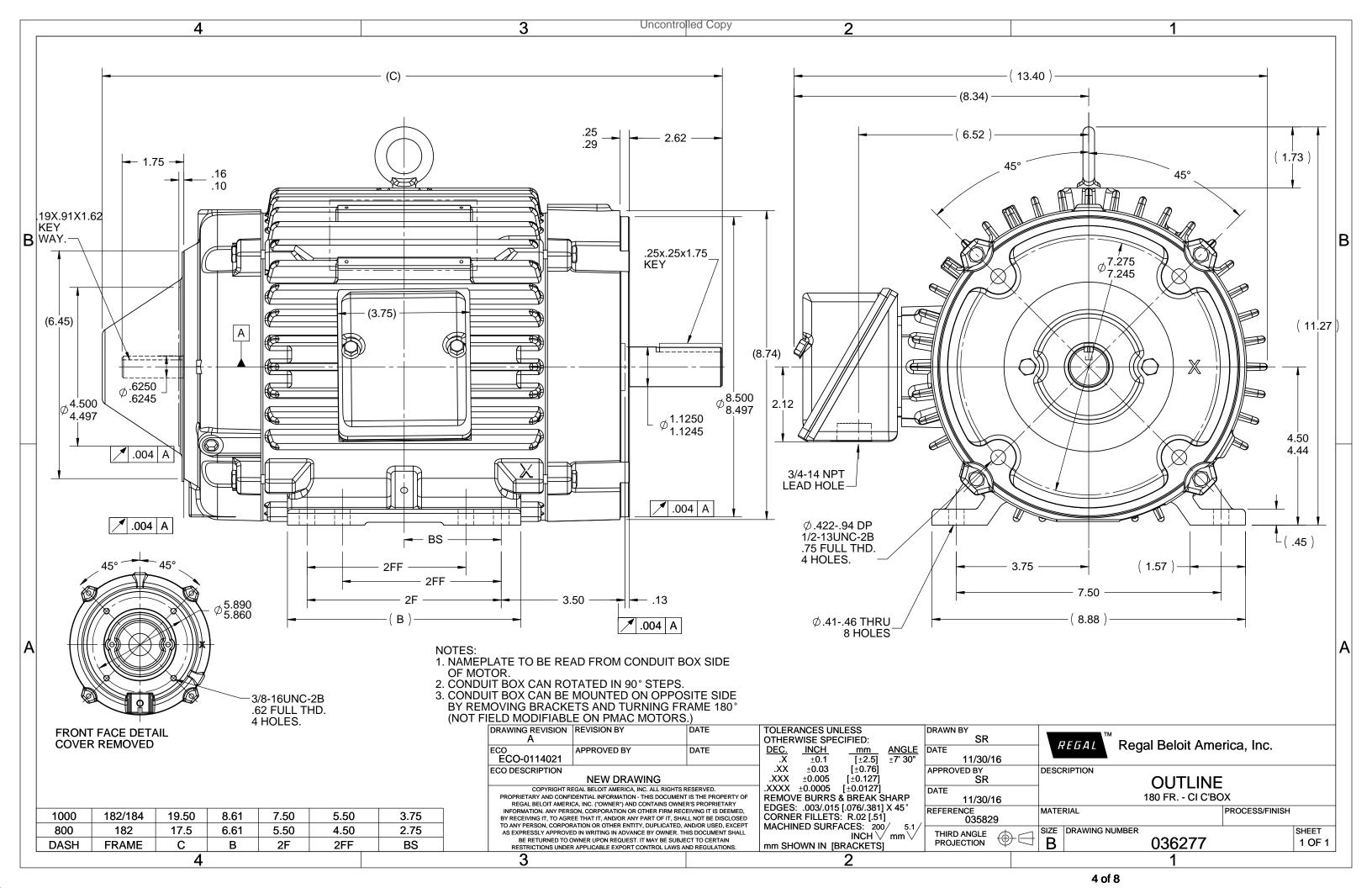
Nameplate Specifications

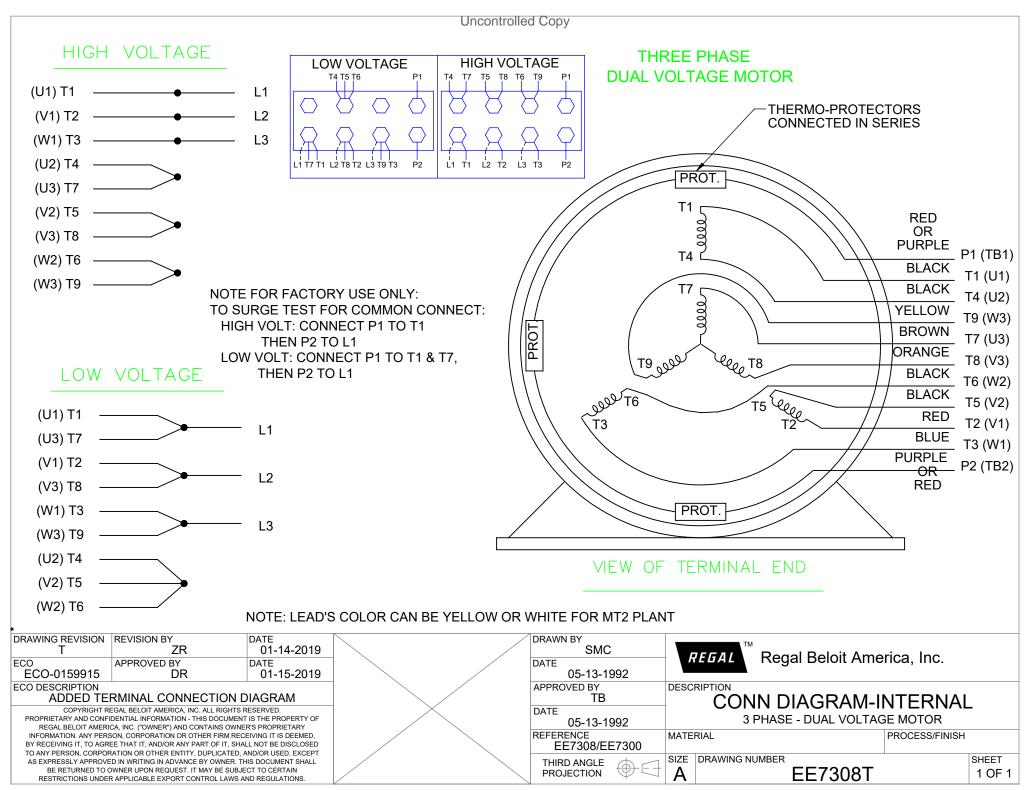
Phase	3	Output HP	5 Hp
Output KW	3.7 kW	Voltage	230/460 V
Speed	1800 rpm	Service Factor	1
Frame	184TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	Thermostat	Efficiency	94.9 %
Ambient Temperature	40 °C	Frequency	90 Hz
Current	11.6/5.8 A	Power Factor	86
Duty	Continuous	Insulation Class	н
Design Code	No Design Code	KVA Code	N/A
Drive End Bearing Size	6207	Opp Drive End Bearing Size	6207
UL	Recognized	CSA	N
CE	N	IP Code	54
Number of Speeds	1		

Technical Specifications

Electrical Type	AC Permament Magnet	Starting Method	Inverter Only
Poles	6	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	Т	Overall Length	17.50 in
Frame Length	8.00 in	Shaft Diameter	1.125 in
Shaft Extension	2.62 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 20:1		
Outline Drawing	036277-800	Connection Drawing	EE7308T

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CERTIFICATION DATA SHEET

Model#: 184TPNSB10236 A **WINDING#:** PM18406008 R3 1

CONN. DIAGRAM: EE7308T ASSEMBLY: F1 ONLY

OUTLINE: 036277-800

TYPICAL MOTOR PERFORMANCE DATA

HP	KW		SYNC	C. RPM	F.L. RPM	FRAME	ENCLOS	URE	K۷	A CODE	DESIGN
5	3.7		1800		1800	184TC	TEN	TENV NO		VA CODE	PM
PH	Hz	VOLT	s	FL AMPS	START TYPE	DUTY	INSL	S.I	=	AMB°C	ELEVATION
3	90	230/46	60	11.6/5.8	INVERTER	CONTINUOU	H4	1.0)	40	3300
					ONLY	S					

FULL LOAD EFF: 94.9	3/4 LOAD EFF: 0	1/2 LOAD EFF: 0	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86	3/4 LOAD PF: -	1/2 LOAD PF: -	94.5	AC PERMANENT	1 / .5
				MAGNET	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
14.6 LB-FT	/	- LB-FT -	- LB-FT -	49

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.39 LB-FT^2	0 LB-FT^2	0 SEC.	0	135 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0	0.8	16.6	33.2	216
RM	ZREF	XR	TD	TD0
0	1	0	0	0

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	ENCODER	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLACK (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	OPE					MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	Т	NONE	NONE	1045 HOT	CAST IRON
6207	6207					ROLLED (C-204)	

	THERMO-PF	ROTECTORS	THERMISTORS	CONTROL	SPACE /n HEATERS	
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS 140(N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 20:1 INV. HP SPEED RANGE: 1.2 X BASE SPEED

ENCODER: PROVISIONS ONLY

DYNAPAR HS35 NONE NONE PPR

BRAKE: NONE NONE

* N O T E S

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NONE P/N NONE NONE

NONE FT-LB NONE V NONE Hz

DATE: 06/28/2017 06:25:55 AM FORM 3531 REV.3 02/07/99 ** Subject to change without notice.

Data Sheet Date: 2/14/2017 Model: 184TPNSB10236 marathon® SY007A **Customer:** Catalog: Attention: Winding: PM18406008 RAMYA Submitted by: Submittal Data @ 460 V **Motor Load Data** 0% 25% 50% 75% 100% 115% 125% 150% Load Current (Amps) 0.0 0.0 0.0 5.8 2.32 0.0 Torque (ft-lb) 0.0 3.7 7.3 11.0 14.6 16.8 18.3 Efficiency (%) 0.0 0.0 0.0 94.9 38.0 0.0 **Motor Speed Data** Variable Speed - Constant Torque Motor Performance **Motor Characteristics** Efficiency and Current vs Speed ΗР 5.00 100.0 7.0 Sync. RPM 1800 90.0 6.0 Frame 184 80.0 Enclosure TENV 5.0 70.0 Construction Type PNS (ambs) 60.0 460 ٧ Voltage 4.0 50.0 Frequency 90 Hz 3.0 Motor P.F. (%) 86.0 40.0 Reserve Tq Capability 150 % 30.0 2.0 ° C 49 Temp Rise @ FL 20.0 **Insulation Class** Н 1.0 10.0 Duty CONT 0.0 ° C Ambient 40 500 1000 1500 2500 0 2000 Elevation 3300 feet Speed (RPM) PM18406008 R3 Ref Wdg Efficiency --- Current Sound Pressure @ 1m 0 dBA **Motor Wgt** 135 Lb Variable Speed - ConstantTorque (with Const HP) Motor Performance Lb-Ft² Rotor/Shaft wk² 0.39 HP, Torque, Amps at rated Torque vs.Speed 20 :1 **CT Speed Range** 25 0 :1 VT Speed Range 6 **Outline Dwg** 036277-800 20 Conn. Diag EE7308T 5 DE Bearing 6207 Torque 15 **ODE Bearing** 6207 Additional Specifications: Current (amps), PWM variable frequency electronic drive that is 3 10 permanent magnet motor capable required for operation. Motor efficiency reflects operation on a VFD 5 R / phase REME Ld Lq (ohms) (mH) (V/krpm) (mH) 0.8 16.6 33.2 217 0 1000 0 500 1500 2000 2500 Speed (RPM) Rated Torque Peak Torque -Current Constant Torque (Constant Power) Load Points Ηz **RPM** HP ft-lb **Amps** Eff Pk Tq 4 90 0.25 14.6 5.8 60 21.90

90

108

1800

2160

5.0

5.0

94.9

94

21.90

18.26

5.8

6.2

14.6

12.17