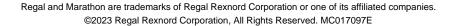
# PRODUCT INFORMATION PACKET



Model No: 182TPFRB10181 Catalog No: SY036

SyMAX® Fan & Blower Motor, 3 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 182TC Frame, TEFC









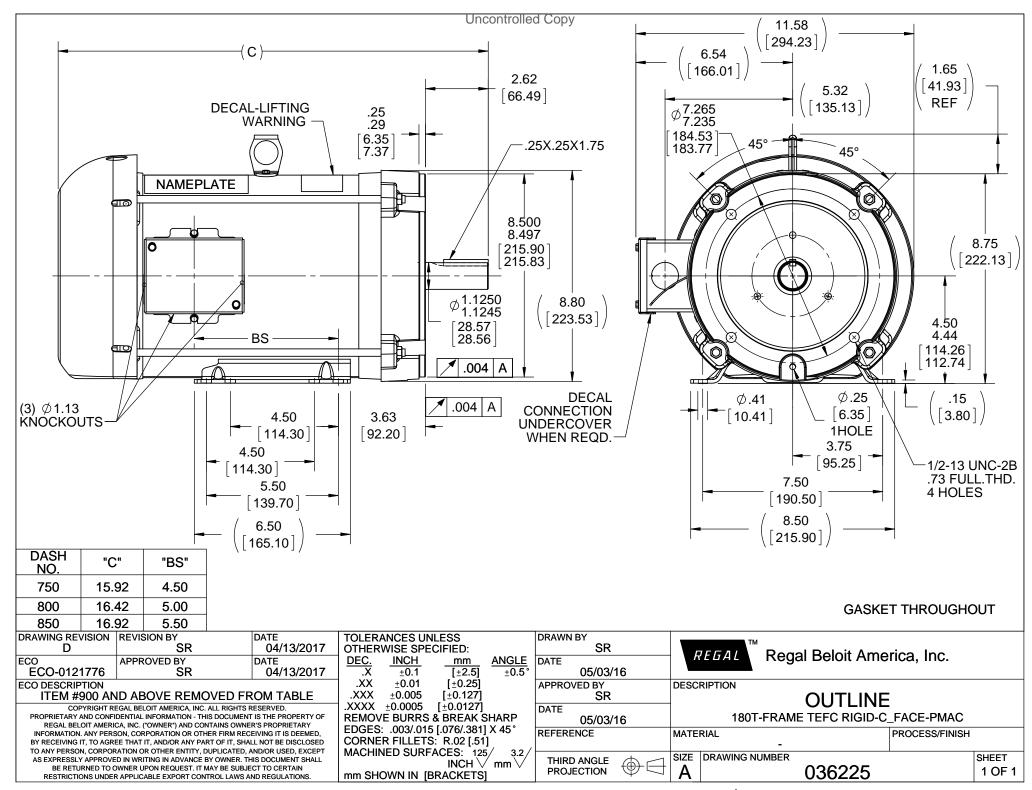
## Nameplate Specifications

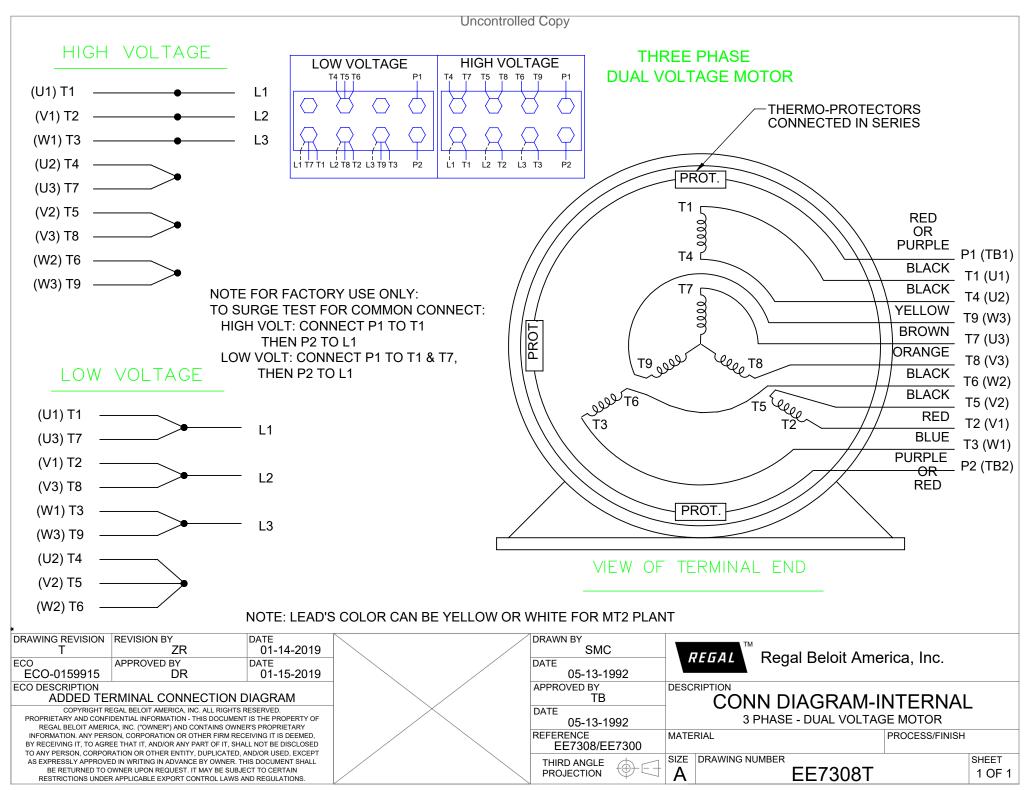
Phase	3	Output HP	3 Hp
Output KW	2.2 kW	Voltage	230/460 V
Speed	1200 rpm	Service Factor	1.00
Frame	182TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Thermostat	Efficiency	93 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	7.0/3.5 A	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	No Design Code	KVA Code	N/A
Drive End Bearing Size	6207	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Υ
CE	Υ	IP Code	43
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	Rolled Steel
Shaft Type	Т	Overall Length	16.42 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	036225-800	Connection Drawing	A-EE7308T

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#### **CERTIFICATION DATA SHEET**

182TPFRB10181 AA WINDING#: PM18406004 NONE 2 Model#:

F1 ONLY CONN. DIAGRAM: A-EE7308T ASSEMBLY:

OUTLINE: 036225-800

#### TYPICAL MOTOR PERFORMANCE DATA

НР	KW	, ]	SYN	IC. RPM	F.L. RPM	FRAME	ENCLOS	SURE	KV	A CODE	DESIGN
3	2.24	1		1200	1200	182TC	TEF	С	NO K	VA CODE	PM
РН	Hz	VOL	LTS	FL AMPS	START TYPE	DUTY	INSL	s	.F	AMB°C	ELEVATION
3	60	230/	/460	7/3.5	INVERTER	CONTINUOU	H1	1	.0	40	3300
					ONLY	S					

FULL LOAD EFF: 93	3/4 LOAD EFF: 92.7	1/2 LOAD EFF: 91.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86	3/4 LOAD PF: -	1/2 LOAD PF: -	93	AC PERMANENT	1.2 / .6
				MAGNET	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
13.1 LB-FT	/	- LB-FT -	- LB-FT -	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.46 LB-FT^2	0 LB-FT^2	0 SEC.	0	79 LBS.

#### **EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)**

R1	R2	X1	Х2	XM
0	1.74	39.4	48.3	336
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	STANDARD	RIGID	HORIZONTAL	FALSE	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	ROLLED STEEL
6207	6205					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

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

ENCODER: NONE NONE NONE NONE NONE PPR

BRAKE: NONE NONE

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## Uncontrolled Copy

NONE P/N NONE NONE

NONE FT-LB NONE V NONE Hz

DATE: 06/27/2017 01:24:51 AM FORM 3531 REV.3 02/07/99



# **EC Declaration of Conformity**

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401

and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No: 182TPFRB10181

(Model No. may contain prefix and/or suffix characters)

Catalog No: SY036

Rework No: N/A

### Directives:

Low Voltage Directive 2014/35/EU

## Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Authorized Representative in the Community:

J. cerse

Michael A. Logsdon Vice President, Technology

Julian Clark Marketing Engineer

Created on 09/01/2022

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