

PRODUCT INFORMATION PACKET

Model No: 182TPNSB10237
Catalog No: SY006A
3,1800,TENV,182TC,3/60/230/460
SyMAX - Permanent Magnet AC Motors



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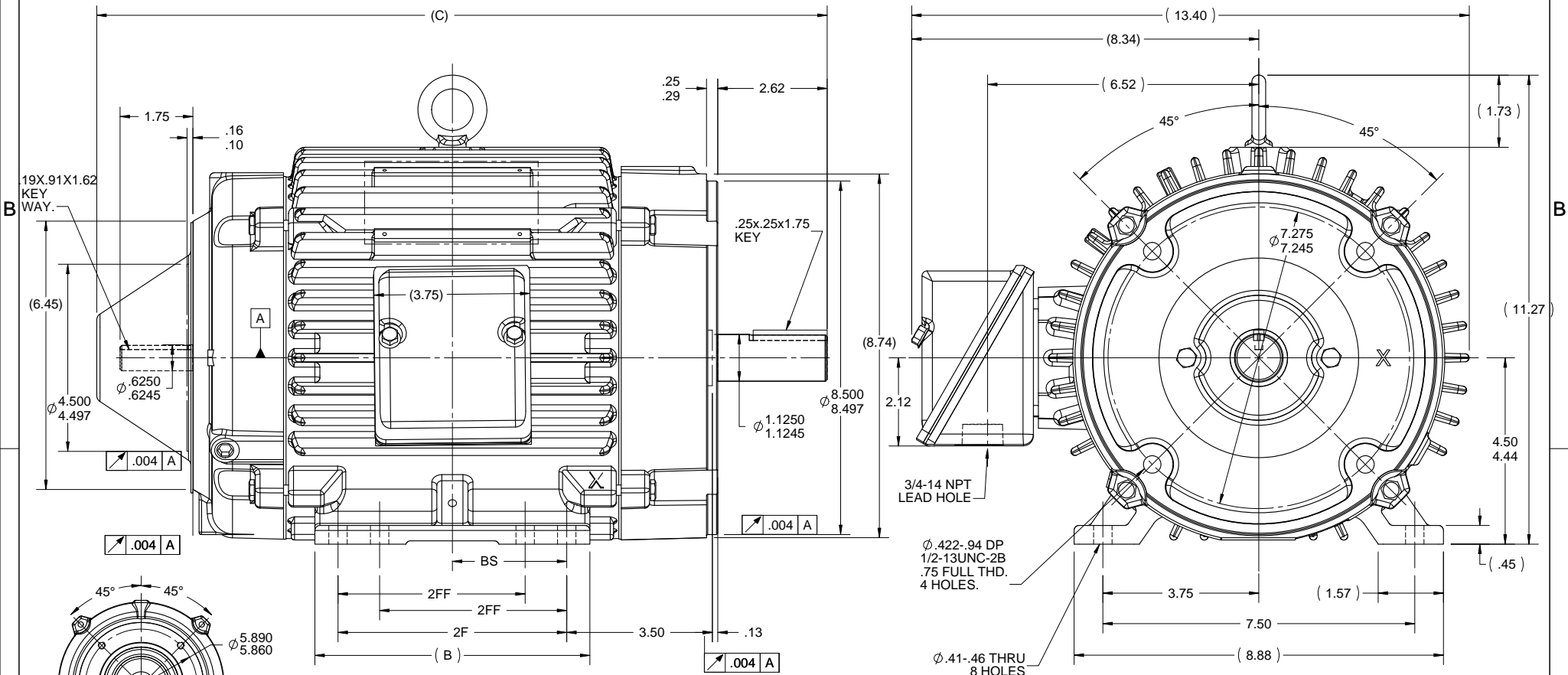
Nameplate Specifications

Output HP	3 Hp	Output KW	2.24 kW
Frequency	90 Hz	Voltage	230/460 V
Current	6.8/3.4 A	Speed	1800 rpm
Service Factor	1	Phase	3
Efficiency	92.9 %	Duty	CONTINUOUS
Insulation Class	H	Design Code	PM
KVA Code	NO KVA CODE	Frame	182TC
Enclosure	TENV	Overload Protector	NOT
Ambient Temperature	40 °C	Drive End Bearing Size	6207
Opp Drive End Bearing Size	6207	UL	Recognized
CSA	N	CE	N
IP Code	54		

Technical Specifications

Electrical Type	AC PERMANENT MAGNET	Starting Method	INVERTER ONLY
Poles	6	Rotation	REV
Mounting	RIGID	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	CAST IRON	Shaft Type	T
Overall Length	17.5 in	Frame Length	8 in
Shaft Diameter	1.13 in	Shaft Extension	2.62 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	036277-800	Connection Diagram	EE7308T

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- NOTES:
 1. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
 2. CONDUIT BOX CAN ROTATED IN 90° STEPS.
 3. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180° (NOT FIELD MODIFIABLE ON PMAC MOTORS.)

FRONT FACE DETAIL
COVER REMOVED

1000	182/184	19.50	8.61	7.50	5.50	3.75
800	182	17.5	6.61	5.50	4.50	2.75
DASH	FRAME	C	B	2F	2FF	BS

DRAWING REVISION A	REVISION BY	DATE
ECO ECO-0114021	APPROVED BY	DATE
ECO DESCRIPTION NEW DRAWING		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7°-30°
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°
 CORNER FILLETS: R.02 [.51]
 MACHINED SURFACES: 200 INCH/mm 5.1

DRAWN BY SR	DATE 11/30/16
APPROVED BY SR	DATE 11/30/16
REFERENCE 035829	THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
180 FR. - CI C'BOX

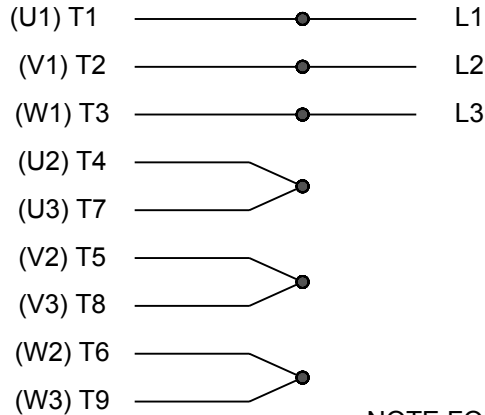
MATERIAL
PROCESS/FINISH

SIZE
B

DRAWING NUMBER
036277

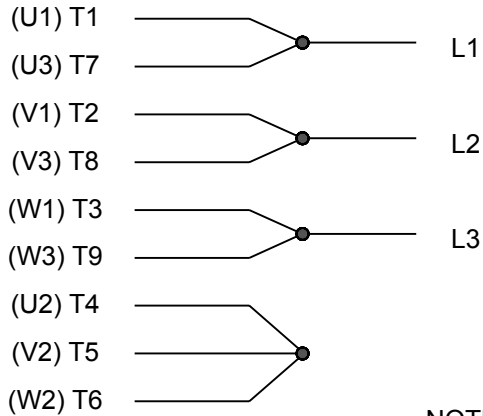
SHEET
1 OF 1

HIGH VOLTAGE



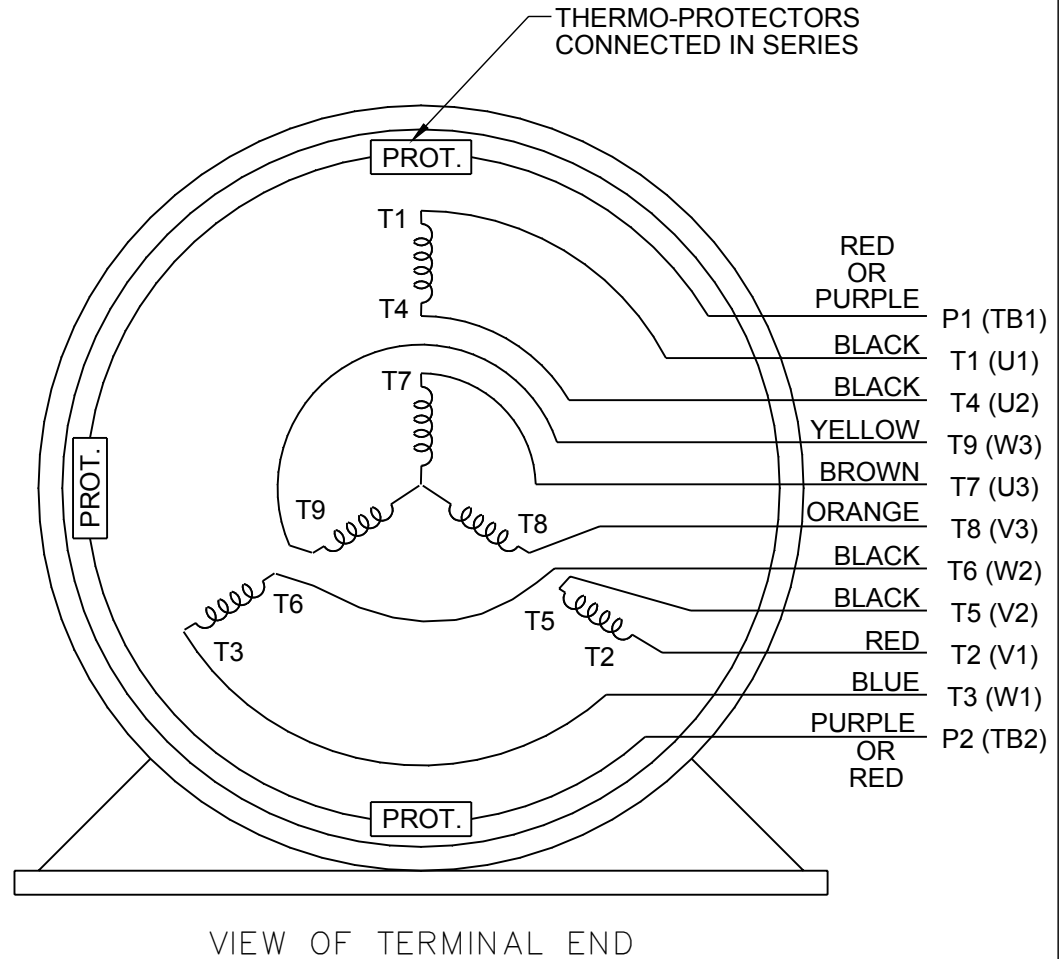
**NOTE FOR FACTORY USE ONLY:
 TO SURGE TEST FOR COMMON CONNECT:
 HIGH VOLT: CONNECT P1 TO T1
 THEN P2 TO L1
 LOW VOLT: CONNECT P1 TO T1 & T7,
 THEN P2 TO L1**

LOW VOLTAGE



NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

THREE PHASE DUAL VOLTAGE MOTOR



DRAWING REVISION R	REVISION BY AJW	DATE 07-17-2015		DRAWN BY SMC	Regal Beloit America, Inc.
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015		DATE 05-13-1992	
ECO DESCRIPTION REV'D IEC NOTATIONS PER IEC 60034-8				APPROVED BY TB	DESCRIPTION CONN DIAGRAM-INTERNAL
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			REFERENCE EE7308/EE7300	MATERIAL	PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7308T

CERTIFICATION DATA SHEET

Model#: 182TPNSB10237 A **WINDING#:** PM18406011 R1 1
CONN. DIAGRAM: EE7308T **ASSEMBLY:** F1 ONLY
OUTLINE: 036277-800

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	1800	1800	182TC	TENV	NO KVA CODE	PM

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	90	230/460	6.8/3.4	INVERTER ONLY	CONTINUOUS	H4	1.0	40	3300

FULL LOAD EFF: 92.9	3/4 LOAD EFF: 0	1/2 LOAD EFF: 0	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 87	3/4 LOAD PF: 85	1/2 LOAD PF: 85	92.4	AC PERMANENT MAGNET	1.2 / .6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
8.753 LB-FT	/	- LB-FT -	- LB-FT -	46

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.19 LB-FT^2	0 LB-FT^2	0 SEC.	0	105 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0	2.84	47.8	92.9	215

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 MATERIAL	FRAME MATERIAL
DE	OPE	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL						
6207	6207						

THERMO-PROTECTORS				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
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE

*
N
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T
E
S
*

NONE	P/N	NONE	
NONE	NONE		
NONE FT-LB	NONE V	NONE Hz	

DATE: 06/27/2017 01:26:02 AM
FORM 3531 REV.3 02/07/99
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