

PRODUCT INFORMATION PACKET

Model No: 056PNRA10100

Catalog No: SY001

0.50 HP Permanent Magnet (PMAC) Motor, 3 phase, 1800 RPM, 230/460 V, 56Z Frame, TENV
Permanent Magnet (PMAC) Motors



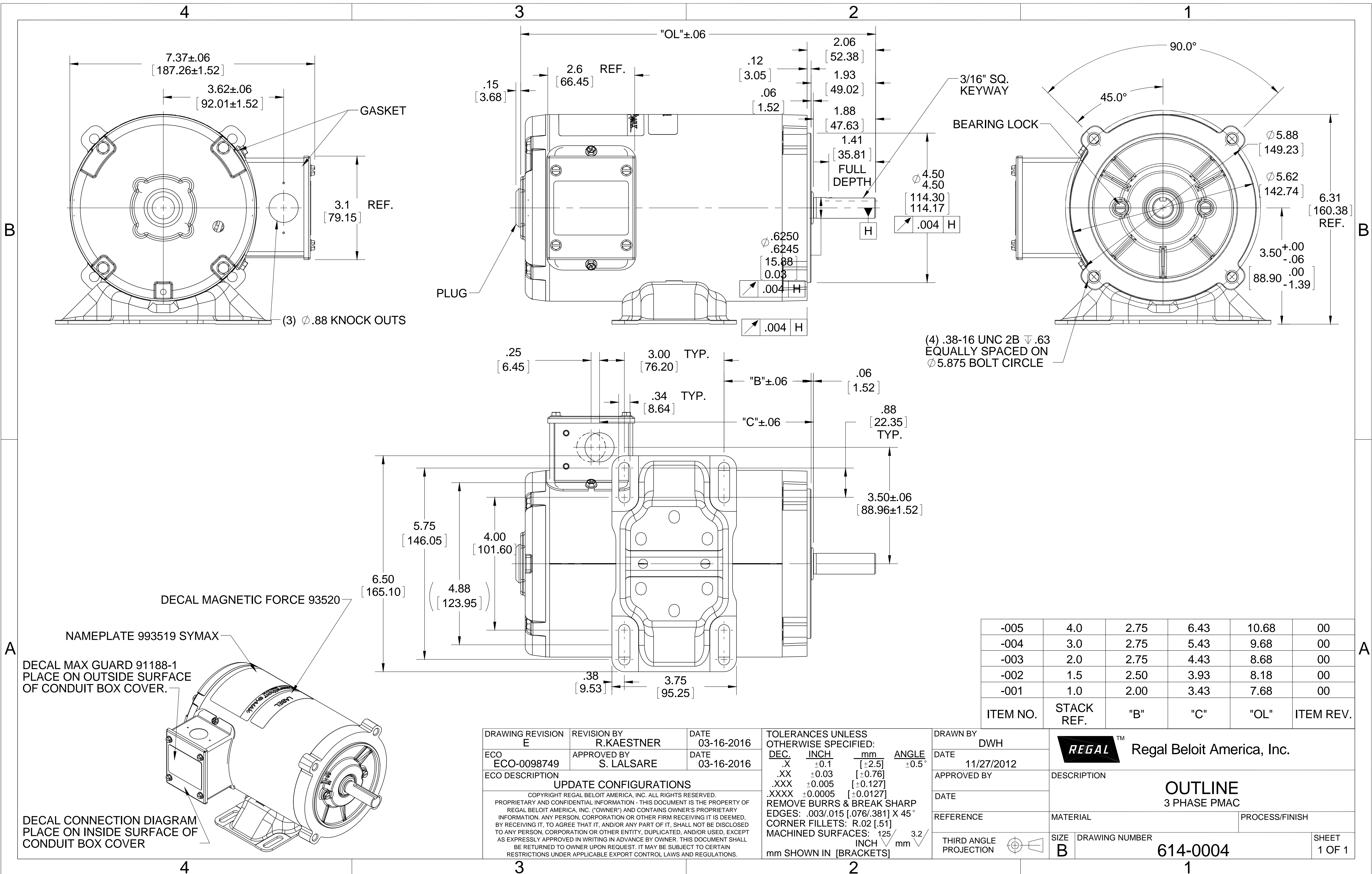
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Nameplate Specifications

Output HP	0.50 Hp	Output KW	0.37 kW
Frequency	90 Hz	Voltage	230/460 V
Current	1.9/0.80 A	Speed	1800 rpm
Service Factor	1	Phase	3
Efficiency	82.2 %	Power Factor	96
Duty	Continuous	Insulation Class	F
Design Code	No Design Code	KVA Code	NO KVA CODE
Frame	S56C	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	AC Permanent 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	NEMA 56	Overall Length	7.68 in
Shaft Diameter	0.625 in	Shaft Extension	2.06 in
Assembly/Box Mounting	F1 ONLY		
Connection Drawing	EE7308	Outline Drawing	614-0004-001



-005	4.0	2.75	6.43	10.68	00
-004	3.0	2.75	5.43	9.68	00
-003	2.0	2.75	4.43	8.68	00
-002	1.5	2.50	3.93	8.18	00
-001	1.0	2.00	3.43	7.68	00
ITEM NO.	STACK REF.	"B"	"C"	"OL"	ITEM REV.

DRAWING REVISION E	REVISION BY R.KAESTNER	DATE 03-16-2016
ECO ECO-0098749	APPROVED BY S. LALSARE	DATE 03-16-2016
ECO DESCRIPTION UPDATE CONFIGURATIONS		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45°
 CORNER FILLETS: R.02 [0.51]
 MACHINED SURFACES: 125 INCH 3.2 mm

DRAWN BY
DWH

DATE
11/27/2012

APPROVED BY

DATE

REFERENCE

THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
3 PHASE PMAC

MATERIAL

PROCESS/FINISH

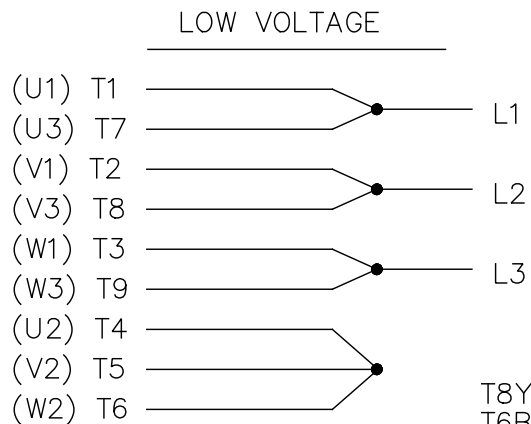
SIZE
B

DRAWING NUMBER
614-0004

SHEET
1 OF 1

EE7308

THREE PHASE
DUAL VOLTAGE MOTOR



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	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN RM 11/20/1990				
					DEC.	INCHES						
5	CHG TO REGAL LOGO	SL 09/10/2015	AB					CHK ML 11/21/1990				
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1			APPD SAS 04/24/2003				
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		TITLE CONNECTION DIAGRAM	SCALE 1=1				
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		3Ø - DUAL VOLTAGE MOTOR	REF				
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		MAT'L.	FMF				
					±7'30"			PREV				
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							DIST WP					



Regal Beloit America, Inc.



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WAUSAU, WI 54401-8003
PH. 715-675-3311**

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7308
OUTLINE: 614-0004-001
WINDING #: PM04806026 1

CUSTOMER PO#:
MODEL #: 56PNRA10100 A
CUSTOMER PART #:
MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	1800	1800	S56Z	TENV	NO KVA CODE	PM

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	90	230/460	1.9/0.8	INVERTER ONLY	CONTINUOUS	F3	1.0	40

FULL LOAD EFF:	82.2	3/4 LOAD EFF:	82.9	1/2 LOAD EFF:	81.2	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	96	3/4 LOAD PF:	-	1/2 LOAD PF:	-	82.2		AC PERMANENT MAGNET	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
1.458 FT-LB	/	- FT-LB - %	- FT-LB - %	67

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
60 dBA	70 dBA	0.022 LB-FT^2	- LB-FT^2	- SEC.	-	12.3 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	BLACK (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	SGL SPL EXT	0.625 x 1.88 IN SEK	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6203	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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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

PREPARED BY: Dinesh
Suddula **DATE:**
02/08/2019 01:26:54 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.