

PRODUCT INFORMATION PACKET



Model No: 680A
Catalog No: 680A

OEM Replacement Motor, 1/8 HP, 1 Ph, 60 Hz, 115 V, 775/650/525 RPM, 3 Speed, 48 Frame, OPEN



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Nameplate Specifications

Phase	1	Output HP	1/8 Hp
Output KW	0.10 kW	Voltage	115 V
Speed	775/650/525 rpm	Service Factor	1
Frame	F48Y	Enclosure	Open Enclosed
Thermal Protection	Automatic	Efficiency	42.8 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	1.5 A	Duty	Air Over
Insulation Class	B	UL	Recognized
CSA	Y	CE	N
Number of Speeds	3		

Technical Specifications

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	8	Rotation	Counterclockwise Lead End
Mounting	Resilient Base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Flat
Overall Length	28.00 in	Frame Length	4.25 in
Shaft Diameter	0.500 in	Shaft Extension	11.5 X.5X11.6 in
Connection Drawing	614131-106	Outline Drawing	680A-S01

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GENERAL INFORMATION:

SHAFT RUNOUT: .001 [.03] T.I.R. PER INCH LENGTH OF EXTENSION

BEARINGS: BALL

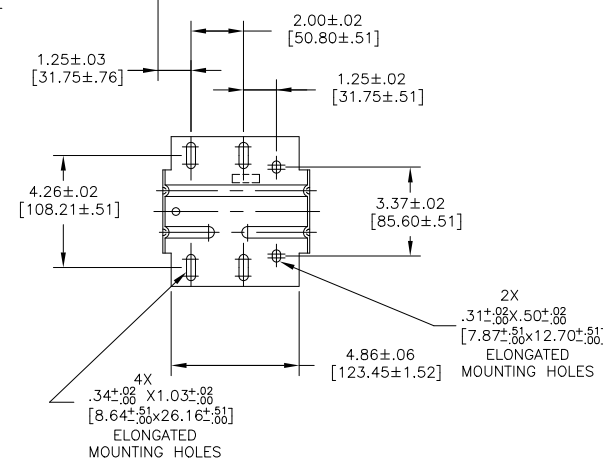
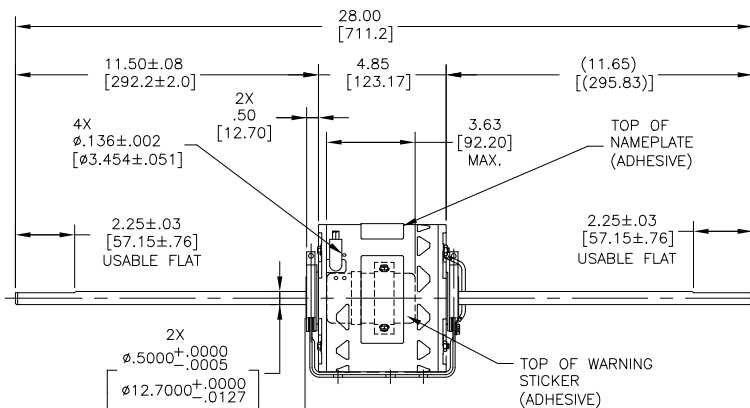
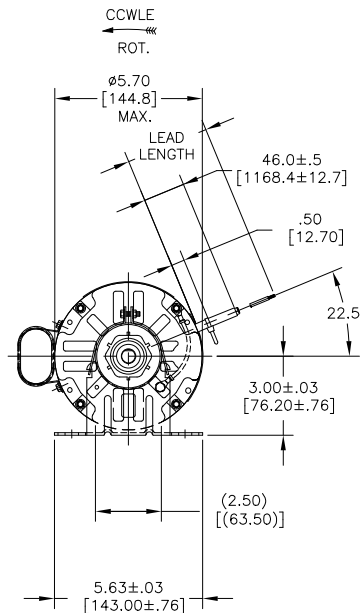
MOUNTING POSITION: HORIZONTAL

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (SENSATA 7AM 034)

LEADS: NO. 18 GA., .06 [1.5] THK. PVC 105°C INSUL.

GROUND LEAD: NO. 18 GA., .03 [.8] THK. (GREEN/YELLOW) INSUL.



NAMEPLATE DATA:

MODEL NO.: F48Z30A01
CUST. P/N: 680A
HP: 1/8
ROT.: CCWLE
RPM: 775/650/525
TYPE: UF
FRAME: 48Y
VOLTS: 115
PH: 1
AMPS: 1.5
HZ: 60
INS.: B
AMB.: 40 °C
DUTY: AIR OVER
CAP.: 6 MFD/370V
ENCL: OPEN
UL LOGO
CSA LOGO
THERMALLY PROTECTED

EXTERNAL CONNECTION DIAGRAM

BROWN
SEP. CAP.
BRN/WHT
WHITE
BLACK HI
BLUE MED
RED LO
LINE

614131-106

PERFORMANCE CURVE NO.	TORQUE @ 775 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT				CSA	
			FILE #	CCN #	FILE #	CLASS #	FILE #	CLASS #
C32702	10.0 OZ. FT.	0603093B	E46412	PRGY2	LR43341	4211-01		

GREEN/YELLOW GROUND	3.0/5.0 [76/127]	#10 EYELET
BROWN/WHITE	CONNECTED TO CAPACITOR	.25 [6.4] FLAG
BROWN	CONNECTED TO CAPACITOR	.25 [6.4] FLAG
WHITE	47.0/51.0 [1194/1295]	.50 [12.7] SKIN
BLACK	47.0/51.0 [1194/1295]	.50 [12.7] SKIN
BLUE	47.0/51.0 [1194/1295]	.50 [12.7] SKIN
RED	47.0/51.0 [1194/1295]	.50 [12.7] SKIN
COLOR	LENGTH	TERMINAL OR STRIP LENGTH

LEAD DATA

DRAWING REVISION
C
ECO-0130978
ECO DESCRIPTION
UPDATED LOGO

REVISION BY
HANNA.ZOU
DATE
09-08-2017

APPROVED BY
JASMINE.ZHU
DATE
09-08-2017

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DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

MAIN FRAME - OLE	OPEN
END FRAME - OLE	OPEN
MAIN FRAME - LE	SEMI-ENCLOSED
END FRAME - LE	OPEN

ENCLOSURE

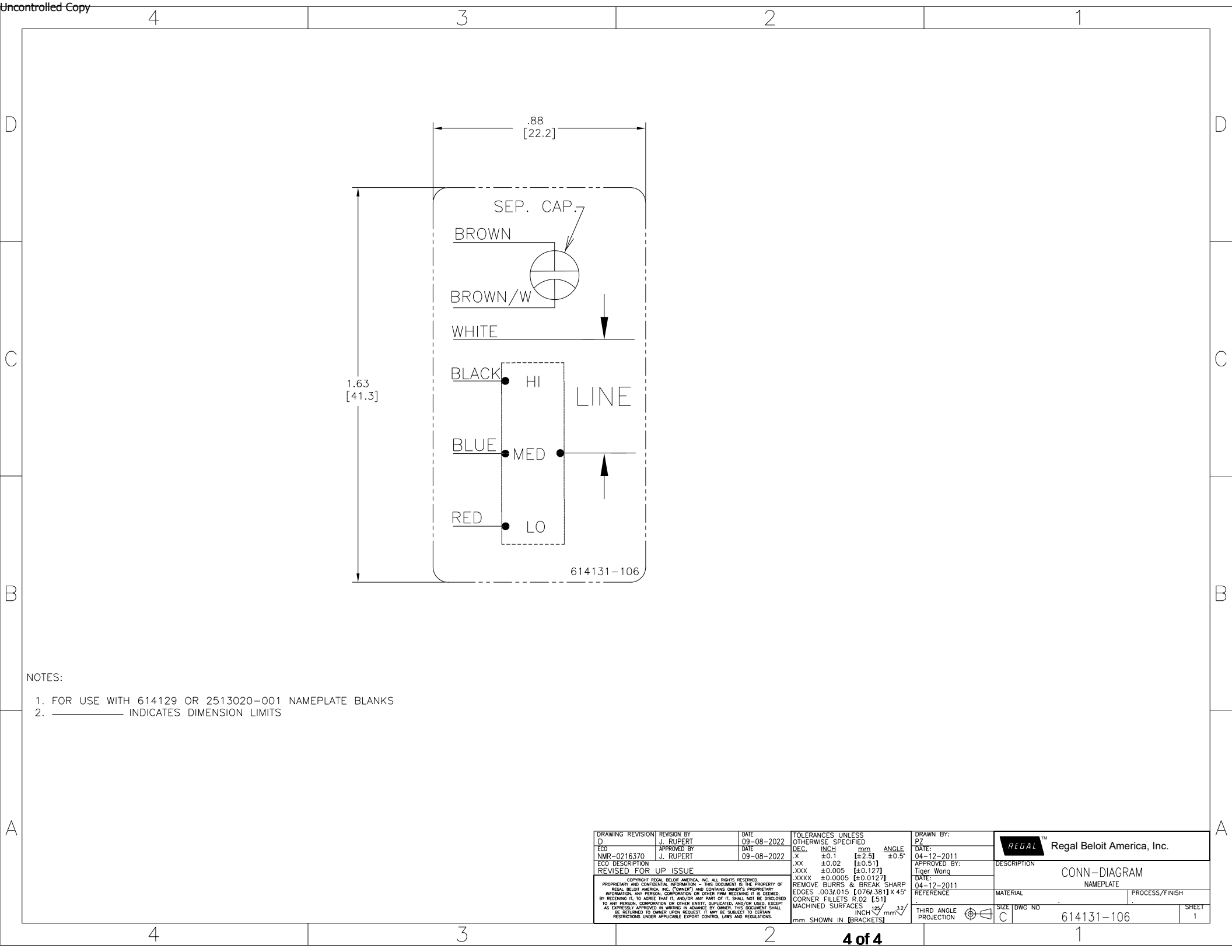
DRAWN BY: BZ DATE: 04-18-2011 APPROVED BY: CZ DATE: 04-18-2011 PROCESS/FINISH -	SIZE DWG NO C
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REGAL™ Regal Beloit America, Inc.

DESCRIPTION
MODEL-RFHP-48FR
OUTLINE

MATERIAL
-

SHEET
1



NOTES:

1. FOR USE WITH 614129 OR 2513020-001 NAMEPLATE BLANKS
2. _____ INDICATES DIMENSION LIMITS

DRAWING REVISION		REVISION BY		DATE		TOLERANCES UNLESS OTHERWISE SPECIFIED		DRAWN BY:		 Regal Beloit America, Inc.	
ECO		J. RUPERT		09-08-2022		DEC. INCH mm ANGLE		PZ			
NMR-0216370		APPROVED BY:		DATE		X ±0.1 [±2.5] ±0.5°		DATE:		04-12-2011	
ECO DESCRIPTION		J. RUPERT		09-08-2022		.XX ±0.02 [±0.51]		Tiger Wong		DESCRIPTION	
REVISED FOR UP ISSUE						.XXX ±0.005 [±0.127]		DATE:		CONN-DIAGRAM	
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						REMOVE BURRS & BREAK SHARP		REFERENCE		MATERIAL	
						EDGES .003/.015 [0.076/.381] X 45°				PROCESS/FINISH	
						CORNER FILLETS R.02 [51]		MACHINED SURFACES .125 [3.175] mm		THIRD ANGLE PROJECTION	
						mm SHOWN IN [BRACKETS]				SIZE / DWG NO	
										C 614131-106	
										SHEET 1	