

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

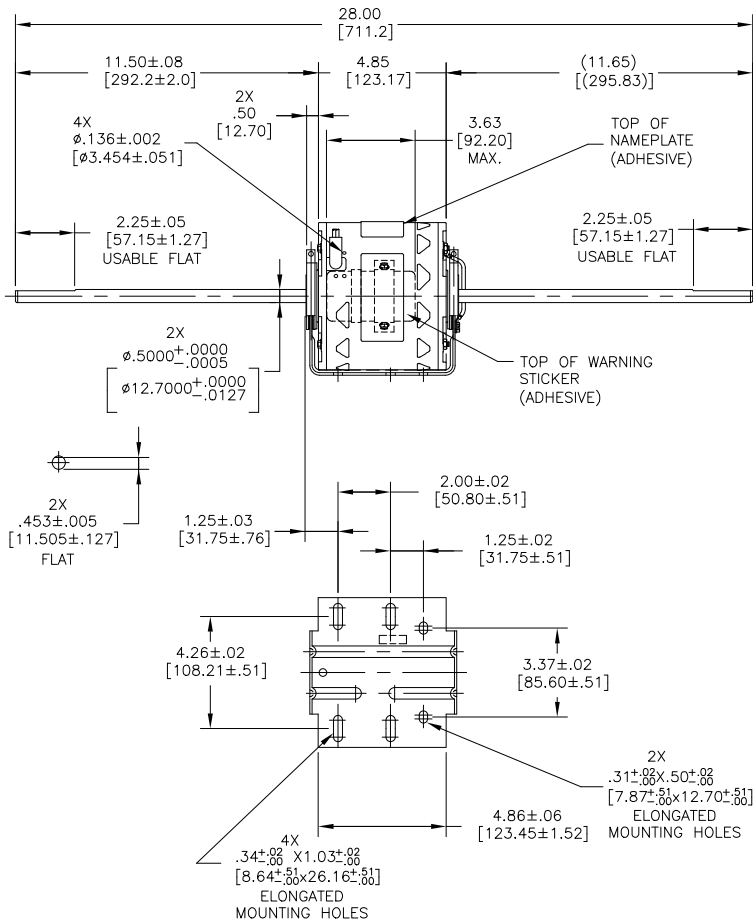
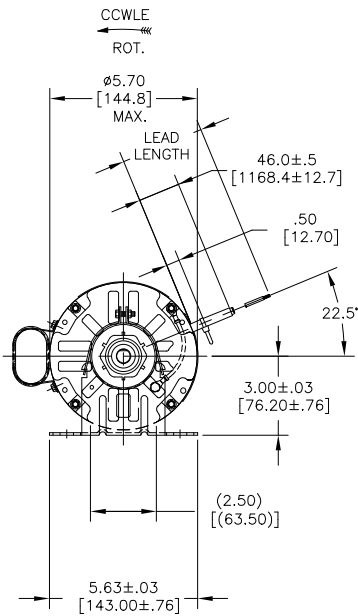
MOUNTING POSITION: HORIZONTAL

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 #
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	REVISION BY	DATE
D	ABH	10-30-2024
ECO	APPROVED BY	DATE
ECR-0238192	KEP	10-30-2024
ECO DESCRIPTION	UPDATED FLAT TOL	
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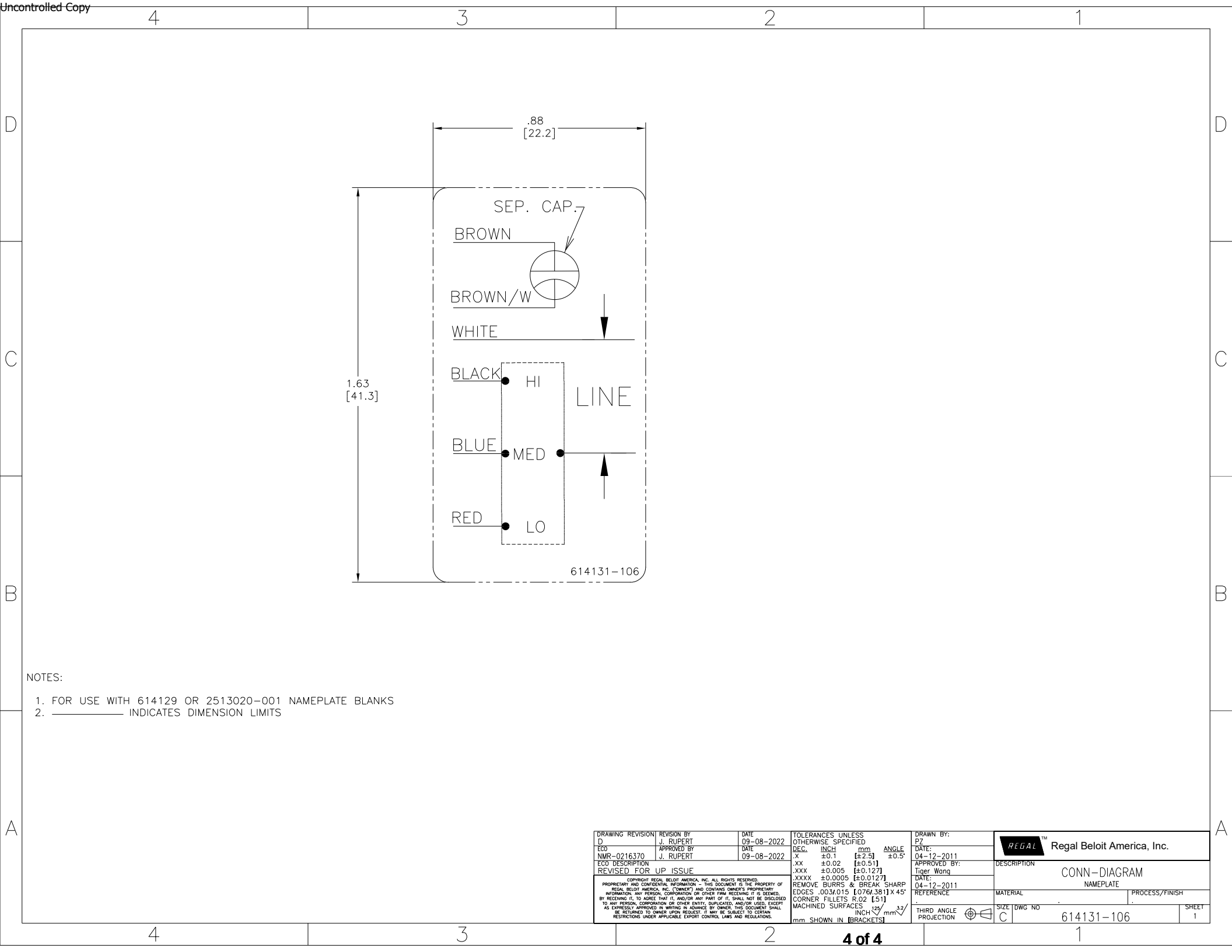
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DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

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

CUSTOMER	DISTRIBUTION SERVICES
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DRAWN BY: BZ	DATE: 04-18-2011	APPROVED BY: CZ	DATE: 04-18-2011	PROCESS/FINISH: -	THIRD ANGLE PROJECTION	SIZE: C	DWG NO: 680A	SHEET: 1
DESCRIPTION: MODEL-RFHP-48FR OUTLINE								



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		J. RUPERT	09-08-2022	X ±0.1 [±2.5] ±0.5°			DATE:		04-12-2011	
ECO DESCRIPTION		REVISED FOR UP ISSUE		.XX ±0.02 [±0.51]			APPROVED BY:		Tiger Wong	
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				.XXXX ±0.0005 [±0.0127]			REMOVE BURRS & BREAK SHARP		REFERENCE	
				EDGES .003/.015 [0.076/.381] X 45°			CORNER FILLETS R.02 [51]		THIRD ANGLE PROJECTION	
				MACHINED SURFACES .125 [3.175] mm			mm SHOWN IN [BRACKETS]		SIZE DWG NO	
									C	
									DESCRIPTION	
									CONN-DIAGRAM	
									NAMEPLATE	
									PROCESS/FINISH	
									614131-106	
									SHEET	
									1	