

PRODUCT INFORMATION PACKET



Model No: 436A
Catalog No: 436A

OEM Replacement Motor, 1/3 HP, 1 Ph, 60 Hz, 460 V, 1075 RPM, 1 Speed, 48 Frame, SEMI ENCLOSED



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Nameplate Specifications

Output HP	1/3 Hp	Output KW	0.25 kW
Frequency	60 Hz	Voltage	460 V
Current	1.0 A	Speed	1075 rpm
Service Factor	1	Phase	1
Duty	Air Over	Insulation Class	B
Frame	48	Enclosure	Semi Enclosed
Thermal Protection	Automatic	Ambient Temperature	60 °C
UL	Recognized	CSA	Y
CE	N	Number of Speeds	1

Technical Specifications

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Mounting	Extended Studs	Motor Orientation	Any
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Double Flat
Overall Length	11.68 in	Frame Length	4.13 in
Shaft Diameter	0.500 in	Shaft Extension	6.0 in
Outline Drawing	436A-S01	Connection Drawing	614131-242

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4

3

2

1

GENERAL INFORMATION:

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

BEARINGS: BALL

MOUNTING POSITION: ALL ANGLE

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (T.I. 7AM 036)

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

REVERSING PLUGS: NO. 18 GA., .03 [.8] THK. XLP 125°C INSULATION

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

REV	ECO	REV BY	DATE	APPD	DATE
B	0025460	VMIJARES	04-24-2012	TREYES	04-24-2012

GROUND LEAD (TERMINAL AT MOTOR MUST NOT PROTRUDE BEYOND MOTOR O.D.)

REV. ROT.

Ø5.70 [Ø144.8] MAX.

4X 45°

2X Ø2.50 [Ø63.5]

LEAD LENGTH

LEAD LENGTH

2X .44 [11.1]

11.23 [285.2]

5.30 [134.7]

4.74 [120.4]

6.05 [153.7]

TOP OF NAMEPLATE (ADHESIVE)

TOP OF STICKER WARNING (ADHESIVE)

5.00 [127.0]

USABLE FLAT

SLINGER

Ø.5000^{+.0000}_{-.0004}

Ø12.700^{+.000}_{-.010}

4X #8-32 UNC-2A THD'S. ON A Ø5.15 [Ø130.8] B.C. 90° APART

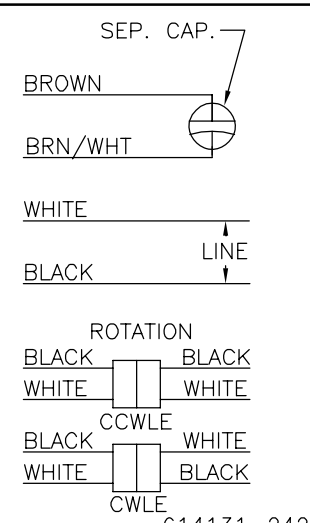
1.03±.06 [26.2±1.5]

2X .453±.005 [11.5±.1] FLAT

REVERSING PLUG (MOTOR TO BE SHIPPED CONNECTED FOR CCWLE ROTATION.)

NAMEPLATE DATA: EXTERNAL CONNECTION DIAGRAM

MODEL NO.: F48Y39A01
 CUST. P/N: 436A
 HP: 1/3
 ROT.: REVERSIBLE
 RPM: 1075
 TYPE: UF
 FRAME: 48
 VOLTS: 460
 PH: 1
 AMPS: 1.0
 HZ: 60
 INS.: B
 AMB.: 60° C
 DUTY: AIR OVER
 CAP.: 5 MFD/370 V
 ENCL: SEMI-ENCL.
 UL LOGO
 CSA LOGO
 THERMALLY PROTECTED



GREEN/YELLOW (GROUND)	11.0/13.0 [279/330]	#10 EYELET
BLACK/WHITE	3.0/5.0 [76/127]	REVERSING PLUG
BROWN	22.0/24.0 [559/610]	.25[6.4] FLAG
BROWN/WHITE	22.0/24.0 [559/610]	.25[6.4] FLAG
WHITE	22.0/24.0 [559/610]	.50[12.7] SKIN
BLACK	22.0/24.0 [559/610]	.50[12.7] SKIN
COLOR	LENGTH	TERMINAL OR STRIP LENGTH

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

CUSTOMER	DISTRIBUTION SERVICE
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PERFORMANCE CURVE NO.	TORQUE @ 1075 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT		CSA	
C32627	31.0 OZ. FT.	0601680B	FILE #	CCN #	FILE #	CLASS #
			E46412	PRGY2	LR43341	4211-01

GEOMETRIC CHARACTERISTICS & SYMBOLS
 □ FLATNESS
 — STRAIGHTNESS
 < ANGLARITY
 ⊥ PERPENDICULARITY (SQUARENESS)
 // PARALLELISM
 ○ ROUNDNESS (CIRCULARITY)
 ∅ CYLINDRICITY
 △ PROFILE OF ANY SURFACE
 ∩ PROFILE OF ANY LINE
 ↗ RUNOUT
 ⊕ TRUE POSITION
 ⊙ CONCENTRICITY
 = SYMMETRY
 ASME Y14.5M 1994

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 DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

DR BY: JRUPERT 04-26-2011
 APPD: JRUPERT 04-26-2011
 THIRD ANGLE PROJECTION
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REGAL-BELOIT CORPORATION

DESCRIPTION: **OUTLINE MODEL-RFHP-48FR**

SIZE: C DWG NO: 436A

SCALE: NONE SHEET: 1

4

3

2

1

4 3 2 1

总技术要求:

轴跳动: .001[.03]/1[25.4]外伸轴

轴承: 球轴承

安装位置: 全方位

电气数据:

过载保护: 自动复位 (T. I. 7AM 036)

引线: 18# (美制标准), 厚.06 [1.5] PVC 105° C 绝缘

换向线: 18# (美制标准), 厚.03 [0.8] XLP 125° C 绝缘

接地线: 18# (美制标准), 厚.03[0.8]绿色绝缘

接地线 (端子不能超出电机的外圆)

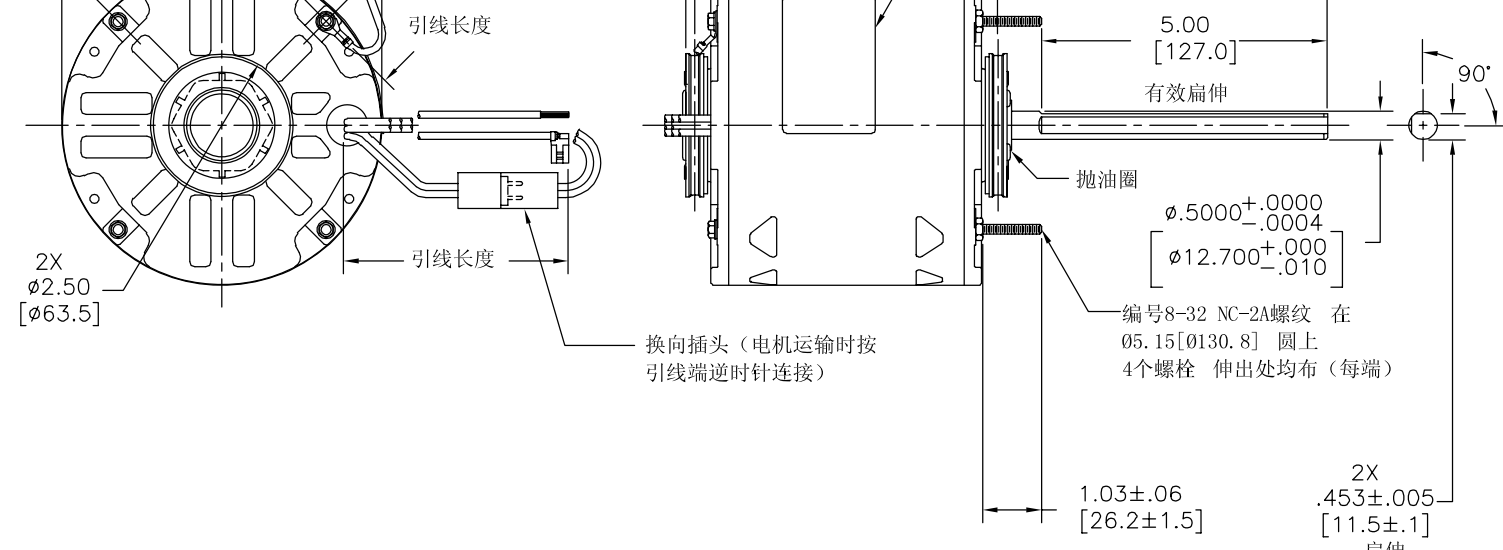
REV. ROT.

Ø5.70 [Ø144.8]

4X 45°

2X Ø2.50 [Ø63.5]

版本	ECO	编制	日期	批准	日期
B	0025460	VMIJARES	04-24-2012	TREYES	04-24-2012



绿色 (接地线)	11.0/13.0 [279/330]	#10 带环线
黑/白	3.0/5.0 [76/127]	翻边插头
棕	22.0/24.0 [559/610]	.25 [6.4] 旗形插
棕/白	22.0/24.0 [559/610]	.25 [6.4] 旗形插
白	22.0/24.0 [559/610]	.50 [12.7] 剥皮
黑	22.0/24.0 [559/610]	.50 [12.7] 剥皮
颜色	长度	端子或剥线长度

无引线端机壳	
无引线端端盖	密封
有引线端机壳	
有引线端端盖	开放

用户	DISTRIBUTION SERVICE
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铭牌数据	外部数据线
MODEL NO.: F48Y39A01 CUST. P/N: 436A HP: 1/3 ROT.: REVERSIBLE RPM: 1075 TYPE: UF FRAME: 48 VOLTS: 460 PH: 1 AMPS: 1.0 HZ: 60 INS.: B AMB.: 60° C DUTY: AIR OVER CAP.: 5 MFD/370 V ENCL: SEMI-ENCL. UL LOGO CSA LOGO THERMALLY PROTECTED	SEP. CAP. BROWN BRN/WHT WHITE BLACK LINE ROTATION BLACK BLACK WHITE WHITE CCWLE BLACK WHITE WHITE BLACK CWLE

性能曲线编号	转矩在 1075 RPM (25° C)	批准样品	UL部件	CSA
C32627	31.0 OZ. FT.	0601680B	文件号 指南	文件号 指南
			E46412 PRGY2	LR43341 4211-01

- 形位公差
- 平面度
- 直线度
- ∠ 倾斜度
- ⊥ 垂直度
- // 平行度
- 圆度
- ∅ 圆柱度
- △ 面轮廓度
- ∩ 线轮廓度
- ∩ 圆跳动
- ⊕ 位置度
- ⊙ 同轴度
- ≡ 对称度

A. O. SMITH在个别领域为客户提供技术支持。鉴于A. O. SMITH未收到任何涉及电机使用和应用环境的数据, 电机的适用性由客户自己决定。

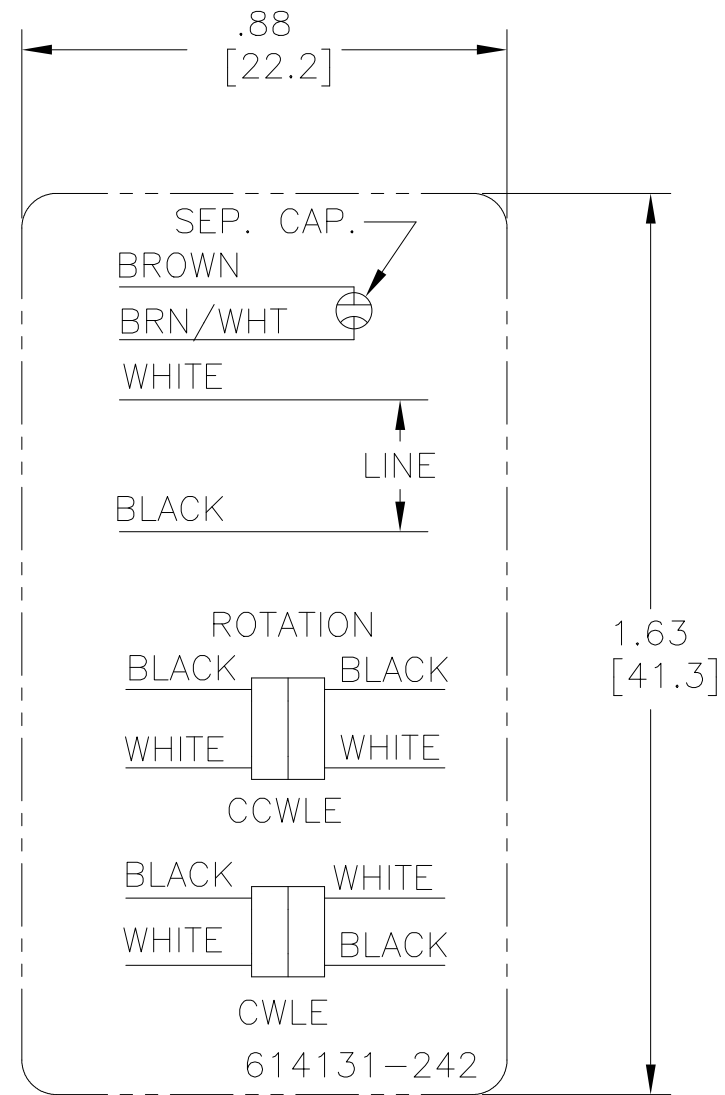
未注公差尺寸仅供参考。

ASME Y14.5M 1994

绘图:	JRUPERT	04-26-2011
批准:	JRUPERT	04-26-2011
第三角投影		图纸格式发布日期 11-11-2011 图纸格式版本 G
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名称	OUTLINE MODEL-RFHP-48FR
图幅	C
图号	436A
比例	NONE
页号	1

4 3 2 1



NOTES:

1. FOR USE WITH 614129 NAMEPLATE BLANK
2. — — — — — INDICATES DIMENSION LIMITS
3. DIE TO BE MADE FROM MASTER SUPPLIED BY REGAL REXNORD CORPORATION
4. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

DRAWING REVISION H	REVISION BY J. RUPERT	DATE 03-16-2022
ECO NMR-0213140	APPROVED BY J. RUPERT	DATE 03-16-2022

ECO DESCRIPTION
REVISED FOR UP ISSUED

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TOLERANCES UNLESS OTHERWISE SPECIFIED			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.02	[±0.51]	
.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 [51]			
MACHINED SURFACES			
	INCH	mm	
	125	3.2	
mm SHOWN IN [BRACKETS]			

DRAWN BY: YL	
DATE: 04-15-2011	
APPROVED BY: HZ	
DATE: 04-15-2011	
REFERENCE	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.	
DESCRIPTION CONNECTION DIAGRAM EXTERNAL	
MATERIAL	PROCESS/FINISH
SIZE A	DWG NO 6 of 6
614131-242	
SHEET 1	