

# PRODUCT INFORMATION PACKET



Model No: FH1054  
Catalog No: FH1054

Condenser Fan Motor, 1/2 HP, 1 Ph, 60 Hz, 460 V, 1625 RPM, 2 Speed, 48 Frame, SEMI ENCLOSED



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**Nameplate Specifications**

Phase	1	Output HP	1/2 Hp
Output KW	0.37 kW	Voltage	460 V
Speed	1625 rpm	Service Factor	1
Frame	48Y	Enclosure	Semi Enclosed
Thermal Protection	Automatic	Ambient Temperature	60 °C
Frequency	60 Hz	Current	1.4 A
Duty	Air Over	Insulation Class	B
UL	Recognized	CSA	Y
CE	N	Number of Speeds	2

**Technical Specifications**

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Extended Studs	Motor Orientation	Any
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Flat
Overall Length	12.24 in	Frame Length	4.75 in
Shaft Diameter	0.500 in	Shaft Extension	6.4 in
Connection Drawing	614131-104	Outline Drawing	FH1054-S01

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REV	ECO	REV BY	DATE	APPD	DATE
DA	ECR-0238477	SURYA	11/11/2024	KEP	11/11/2024

GENERAL INFORMATION:

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

BEARINGS: BALL

MOUNTING POSITION: HORIZONTAL

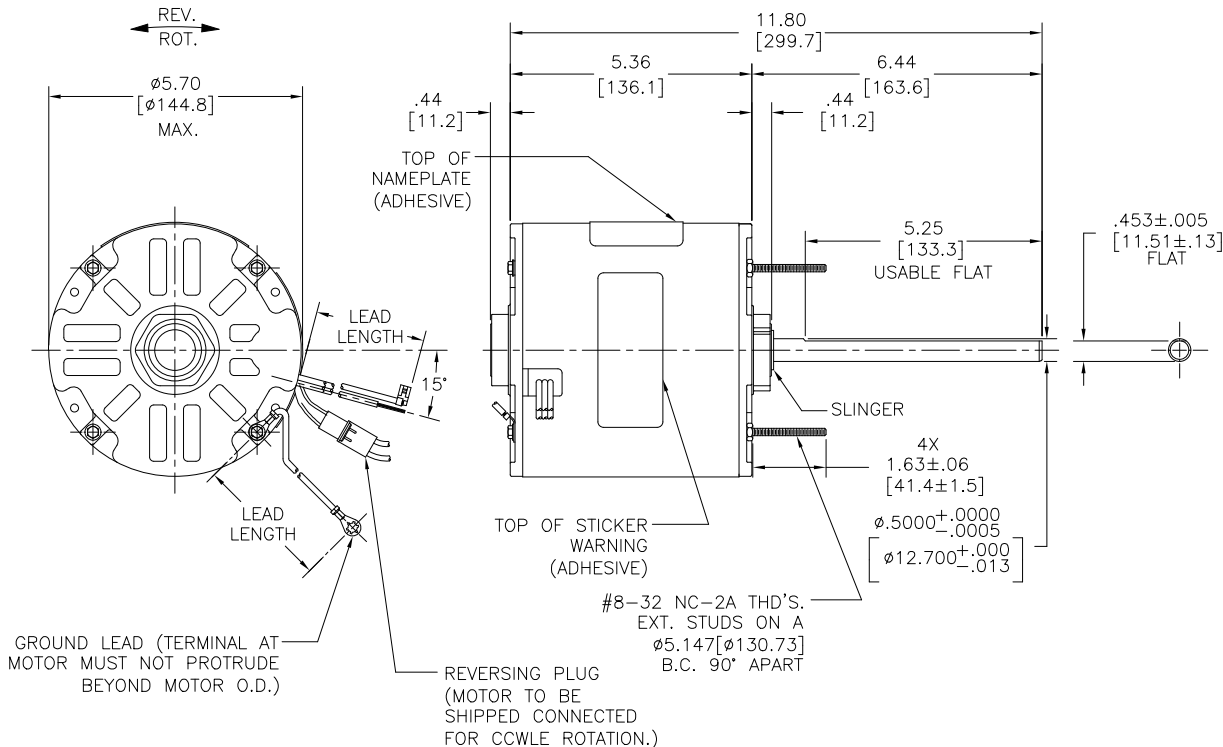
ELECTRICAL DATA:

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

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

REVERSING LEADS: NO. 18 GA., .03[.8] THK. 125°C INSUL.

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



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

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

#8-32 NC-2A THD'S. EXT. STUDS ON A Ø5.147[Ø130.73] B.C. 90° APART

NAMEPLATE DATA:	EXTERNAL CONNECTION DIAGRAM
MODEL NO.: F48SP4V1 CUST. P/N: FH1054 HP: 1/2 ROT.: REVERSIBLE RPM: 1625/2 SPD. TYPE: UF FRAME: 48Y VOLTS: 460 PH: 1 AMPS: 1.4(1.8 MAX.) HZ: 60/50 INS.: B AMB.: 60° C DUTY: AIR OVER CAP.: 7.5 MFD/370V ENCL: SEMI-ENCL. UL LOGO CSA LOGO THERMALLY PROTECTED	<p>SEP. CAP.</p> <p>BROWN</p> <p>YELLOW</p> <p>BLACK</p> <p>RED</p> <p>HI</p> <p>LO</p> <p>LINE</p> <p>ROTATION</p> <p>BLACK</p> <p>WHITE</p> <p>CCWLE</p> <p>BLACK</p> <p>WHITE</p> <p>CWLE</p> <p>614131-104</p>

GREEN(GRD)	12.0/13.0 [305/330]	#10 EYELET
BLACK/WHITE	3.0/5.0 [76/127]	REVERSING PLUG
BROWN	26.0/28.0 [660/711]	.25[6.4] FLAG
YELLOW	26.0/28.0 [660/711]	.60[15.2] SKIN
BLACK	26.0/28.0 [660/711]	.60[15.2] SKIN
RED	26.0/28.0 [660/711]	.60[15.2] SKIN
COLOR	LENGTH	TERMINAL OR STRIP LENGTH

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

CUSTOMER	DISTRIBUTION SERVICE
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PERFORMANCE CURVE NO.	TORQUE @ 1625 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT	CSA
C23156	35.0 OZ. FT.	EX11297	FILE # CCN # FILE # CLASS #	E46412 PRGY2 LR43341 4211-01

LEAD DATA

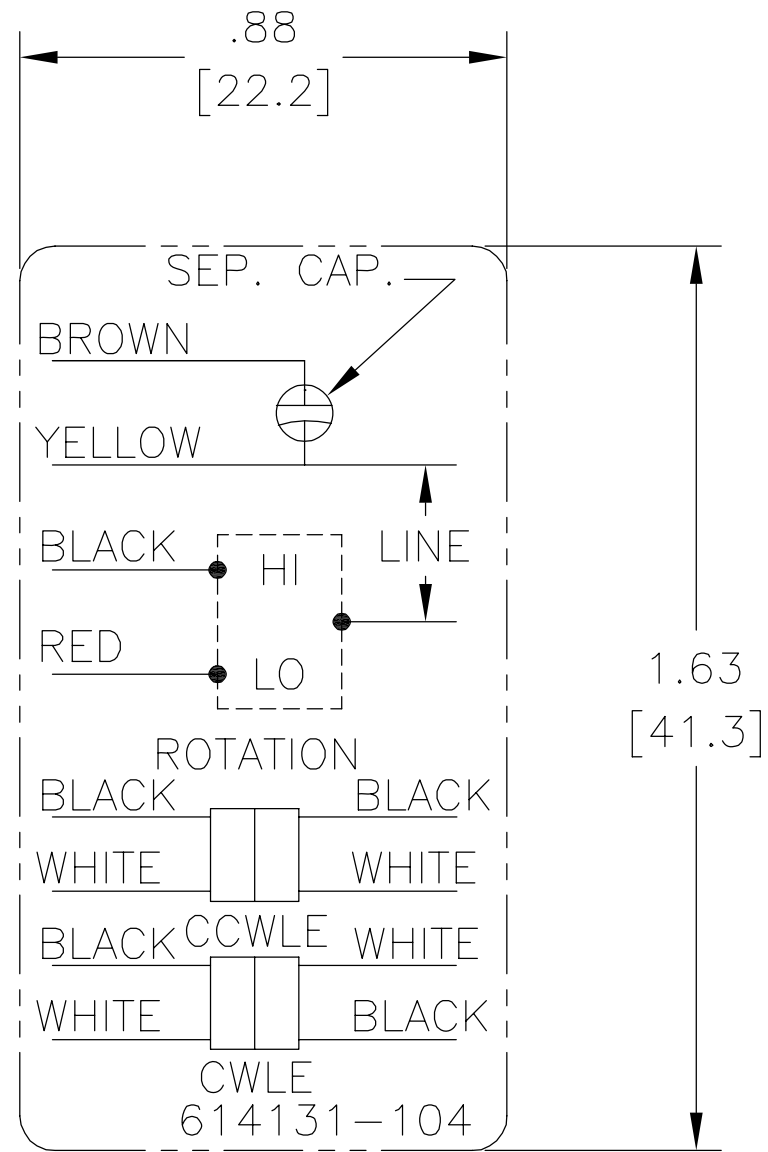
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DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

DR BY:	T.HUANG	02-14-2011
APPD:	B.C.SHEN	02-14-2011
THIRD ANGLE PROJECTION	EDS DATE	11-11-2011
	FORMAT REV	G
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DESCRIPTION	
MODEL-RFHP-48FR OUTLINE	
SIZE	DWG NO
C	FH1054
SCALE	SHEET
NONE	1

REV	ECO	REV BY	DATE	APPD	DATE
A	ECO-0018859	jrupert	02-21-011	triley	02-21-2011

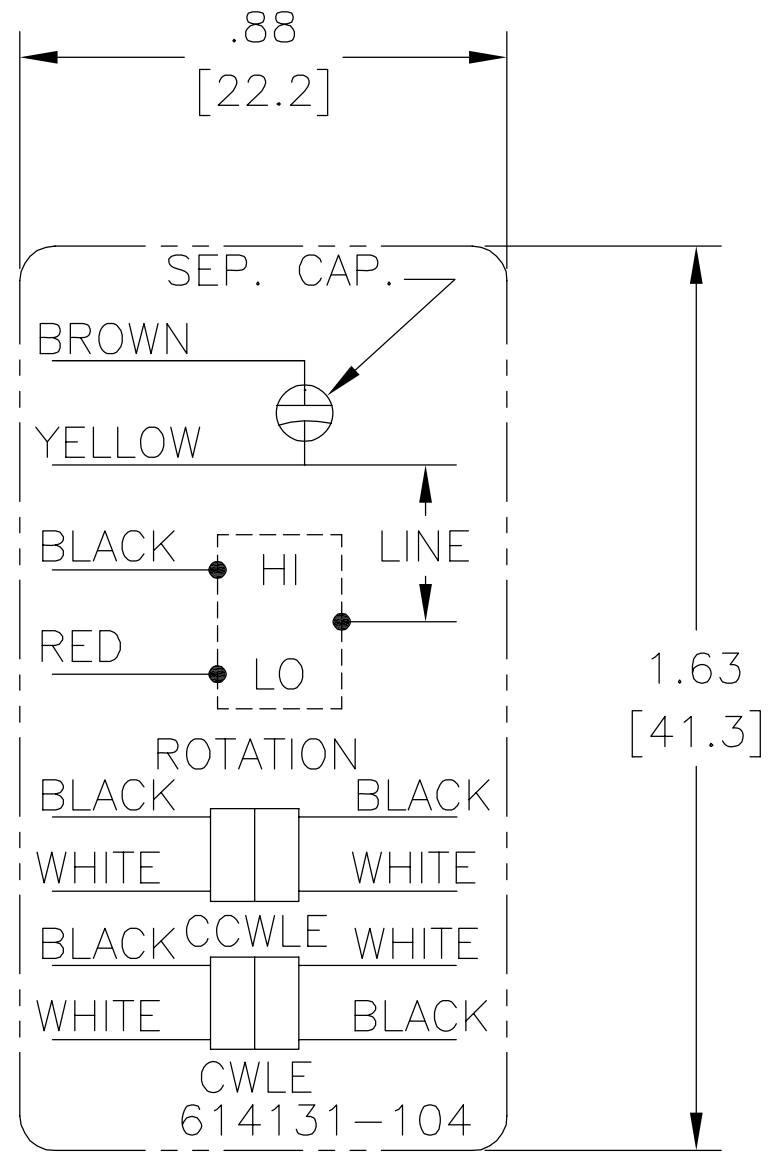


NOTES:

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

GEOMETRIC CHARACTERISTICS & SYMBOLS ▭ FLATNESS — STRAIGHTNESS ∠ ANGULARITY ⊥ PERPENDICULARITY (SQUARENESS) // PARALLELISM ○ ROUNDNESS (CIRCULARITY) ⊘ CYLINDRICITY △ PROFILE OF ANY SURFACE ∩ PROFILE OF ANY LINE ↑ RUNOUT ⊕ TRUE POSITION ⊙ CONCENTRICITY = SYMMETRY	UNLESS OTHERWISE SPECIFIED DIM. TOLERANCES ARE AS FOLLOWS: INCH X XX XXX XXXX mm ±0.5 ±0.13 ±0.013 ANG. ±.50 DEG REMOVE BURRS & BREAK SHARP EDGES: INCH .003-.015 mm 0.1-0.4 CORNER FILLETS TO: INCH .020 mm 0.5 MACHINE SURFACES: INCH 125 mm 3.2 METRIC DIMS. SHOWN IN [BRACKETS]	DR BY:	jrupert	02-21-2011	<b>ELECTRICAL PRODUCTS COMPANY</b> A DIVISION OF A. O. SMITH CORPORATION				
		APPD:	triley	02-21-2011		DESCRIPTION	CONN DIAGRAM EXTERNAL		
		THIRD ANGLE PROJECTION	EDS DATE 02-22-2008 FORMAT REV F	CONFIDENTIAL: THIS DRAWING AND ITS INFORMATION ARE THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF A.O. SMITH CORP. AND ARE NOT TO BE DISCLOSED, DUPLICATED, DISTRIBUTED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF A.O. SMITH CORP. -ALL RIGHTS RESERVED. ASME Y14.5M 1994		SIZE	A	DWG NO	614131-104
				SCALE	NONE	SHEET	1		

REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
A	ECO-0018859	jrupert	02-21-011	triley	02-21-2011

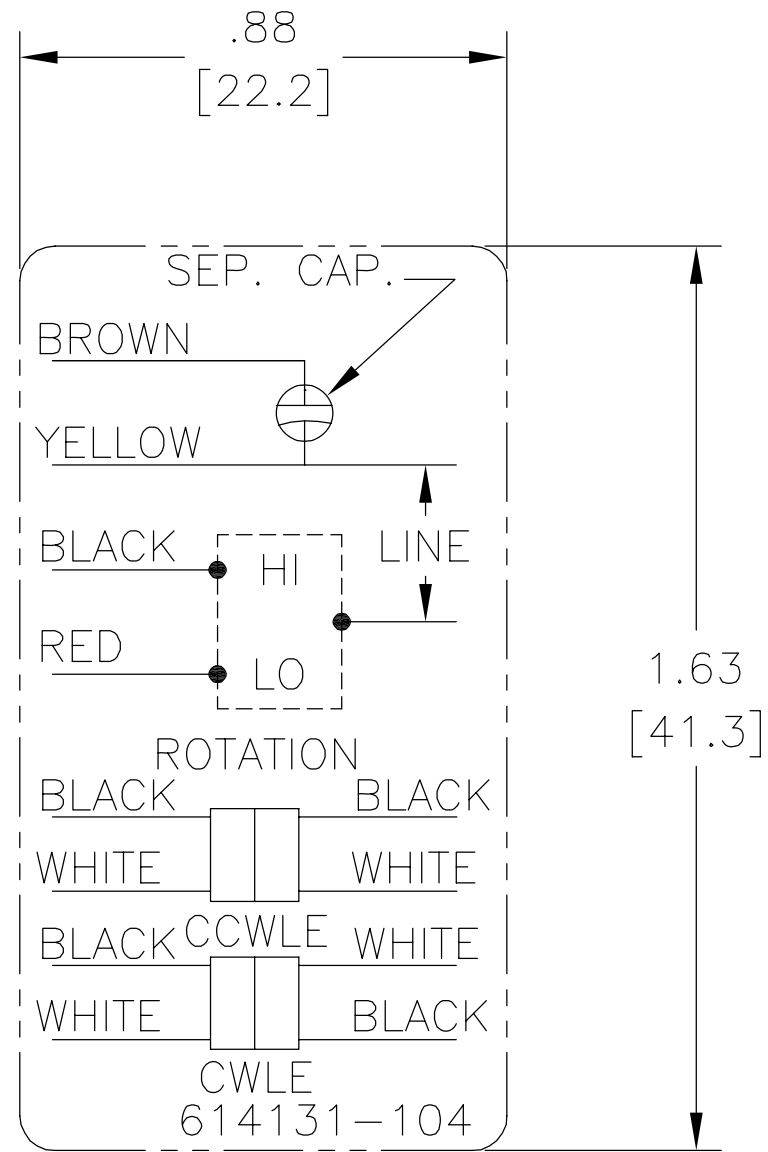


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CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS ▭ PLANICIDAD — RECTITUD < ANGULARIDAD ⊥ PERPENDICULARIDAD (A ESCUADRA) // PARALELISMO ○ REDONDEZ (CIRCULARIDAD) ∅ CILINDRICIDAD ∩ PERFIL DE CUALQUIER SUPERFICIE ∪ PERFIL DE CUALQUIER LINEA ↑ VARIACION ⊕ POSICION REAL ⊙ CONCENTRICIDAD = SIMETRIA	A MENOS QUE SE ESPECIFIQUE DE OTRA MANERA, LAS TOLERANCIAS DE LAS DIMS; SON LAS SIGUIENTES: X XX XXX XXXX PULG ±.1 ±.02 ±.005 ±.0005 mm ±0.5 ±0.13 ±0.013 ANG. ±.50 GRADOS ELIMINAR REBABAS Y ORILLAS FILOSAS DEL BORDE. PULG .003-.015 mm 0.1-0.4 FILETEAR ESQUINA: PULG .020 mm 0.5 MAQUINAR SUPERFICIES PULG 125 mm 3.2 DIMS METRICAS MOSTRADAS [PARENTESIS]	DIBUJADO POR: jrupert 02-21-2011	<b>ELECTRICAL PRODUCTS COMPANY</b> A DIVISION OF A. O. SMITH CORPORATION
	APROBADO POR: triley 02-21-2011	DESCRIPCION: CONN DIAGRAM EXTERNAL	
	TERCER ANGULO DE PROYECCION FECHA EDS: 02-22-2008 REV. FORMATO: F	TAMAÑO: A NUMERO DE DIBUJO: 614131-104	
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A	ECO-0018859	jrupert	02-21-011	triley



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