

PRODUCT INFORMATION PACKET



Model No: 786A
Catalog No: 786A

Condenser Fan Motor, 1/3 HP, 1 Ph, 60 Hz, 460 V, 825 RPM, 1 Speed, 48 Frame, SEMI ENCL



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Nameplate Specifications

Phase	1	Output HP	1/3 Hp
Output KW	0.25 kW	Voltage	460 V
Speed	825 rpm	Service Factor	1.0
Frame	F48Y	Enclosure	Semi Enclosed
Thermal Protection	Automatic	Ambient Temperature	60 °C
Frequency	60 Hz	Current	1.1 A
Duty	Air Over	Insulation Class	B
UL	Recognized	CSA	Y
CE	N	Number of Speeds	1

Technical Specifications

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	8	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	12.36 in	Frame Length	5.25 in
Shaft Diameter	0.500 in	Shaft Extension	6.06 in
Outline Drawing	786A-S01	Connection Drawing	614131-242

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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 INSUL.

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

GROUND LEAD: NO. 16 GA., .03 [.8] THK. (GREEN/YELLOW) INSUL.

NAMEPLATE DATA:

MODEL NO.: F48Z41A01
CUST. P/N: 786A
HP: 1/3
ROT.: REVERSIBLE
RPM: 825
TYPE: UF
FRAME: 48Y
VOLTS: 460
PH: 1
AMPS: 1.1
HZ: 60
INS.: B
AMB.: 60° C
DUTY: AIR OVER
CAP.: 10 MFD/370 V
ENCL: SEMI-ENCL.
UL LOGO
CSA LOGO
THERMALLY PROTECTED

EXTERNAL CONNECTION DIAGRAM

SEP. CAP.

BROWN

BRN/WHT

WHITE

BLACK

LINE

ROTATION

BLACK

WHITE

CCWLE

WHITE

BLACK

CWLE

614131-242

PERFORMANCE CURVE NO. C32704A

TORQUE @ 825 RPM (25°C) 43.3 OZ. FT.

APPROVED SAMPLE 0604208A

UL COMPONENT

FILE # E46412

CCN # PRGY2

CSA

FILE # LR43341

CLASS # 4211-01

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

ASME Y14.5M 1994

REGAL-BELOIT CORPORATION (RBC) PROVIDES TECHNICAL ASSISTANCE TO OUR CUSTOMERS IN SEVERAL AREAS. SINCE RBC DOES NOT RECEIVE ALL DATA CONCERNING THE USE AND APPLICATION OF THE MOTOR, THE SUITABILITY OF THE MOTOR FOR THE APPLICATION MUST BE DETERMINED BY THE CUSTOMER.

DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

REV ECO B

0025527

REV BY J.AGUILERA

DATE 04-24-2012

APPD R.RASCON

DATE 04-24-2012

REV. ROT.

Ø5.70 [Ø144.8] MAX.

TOP OF NAMEPLATE (ADHESIVE)

LEAD LENGTH

LEAD LENGTH

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

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

30°

11.93 [303.0]

5.87 [149.1]

6.06 [153.9]

.43 [11.0]

.43 [11.0]

TOP OF STICKER WARNING (ADHESIVE)

5.00 [127.0] USABLE FLAT

90°

Ø.5000^{+.0000}_{-.0004}

Ø12.700^{+.000}_{-.010}

.49±.06 [12.4±1.5]

2X .453±.005 [11.51±.1] FLAT

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

NOTES:

1. (1) CONDUIT BOX 52P7468-1-E308
(2) COVERS 46P93-1-E308
(1) GASKET 24P75-1
(4) SCREWS 21P258-25
TO BE PUT IN POLY BAG AND
PACKED SEPARATE WITH EACH MOTOR.

GREEN/YELLOW (GROUND) 11.0/13.0 [279/330] #10 EYELET

BLACK/WHITE 3.0/5.0 [76/127] REVERSING PLUG

BROWN 25.0/27.0 [635/686] .25 [6.4] FEMALE SPADE

BROWN/WHITE 25.0/27.0 [635/686] .25 [6.4] FEMALE SPADE

WHITE 25.0/27.0 [635/686] .25 [6.4] FEMALE SPADE

BLACK 25.0/27.0 [635/686] .25 [6.4] FEMALE SPADE

COLOR LENGTH TERMINAL OR STRIP LENGTH

LEAD DATA

DR BY: jrupert 05-12-2011

APPD: jrupert 05-12-2011

THIRD ANGLE PROJECTION

EDS DATE 11-11-2011

FORMAT REV G

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MAIN FRAME - OLE ENCLOSED

END FRAME - OLE ENCLOSED

MAIN FRAME - LE ENCLOSED

END FRAME - LE OPEN

ENCLOSURE

CUSTOMER

DISTRIBUTION SERVICE

REGAL-BELOIT CORPORATION

DESCRIPTION

MODEL-RFHP-48FR OUTLINE

SIZE C

DWG NO 786A

SCALE NONE

SHEET 1

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4

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REVISION:ECO
B0025527

REVISADO POR:J.AGUILERA

FECHA:04-24-2012

APROBADO POR:R.RASCON

FECHA:04-24-2012

INFORMACION GENERAL:

OSCILACION DE FLECHA: .001 [.03] T.I.R. PER INCH LENGTH OF EXTENSION

BALEROS: BALERO

POSICION DEL MONTAJE: TODOS LOS ANGULOS

INFORMACION ELECTRICA:

SOBRECARGA DEL PROTECTOR: REINICIO AUTOMATIC (T.I. 7AM 036)

CABLES: NO. 18 GA., .06 [1.5] THK. PVC 105°C AISLAM.

CONEXION REVERSIBLE: NO. 18 GA., .03 [.8] THK. XLP 125°C AISLAM.

CABLE DE TIERRA: NO. 16 GA., .03 [.8] THK. (VERDE/AMARILLO) AISLAM.

INFORMACION DE ETIQUETA:

MODEL NO.: F48Z41A01
CUST. P/N: 786A
HP: 1/3
ROT.: REVERSIBLE
RPM: 825
TYPE: UF
FRAME: 48Y
VOLTS: 460
PH: 1
AMPS: 1.1
HZ: 60
INS.: B
AMB.: 60° C
DUTY: AIR OVER
CAP.: 10 MFD/370 V
ENCL: SEMI-ENCL.
UL LOGO
CSA LOGO
THERMALLY PROTECTED

DIAGRAMA DE CONEXION EXTRNA

SEP. CAP.

BROWN

BRN/WHT

WHITE

BLACK

LINE

ROTATION

BLACK

WHITE

CCWLE

WHITE

BLACK

CWLE

614131-242

CURVAS DE FUNCIONAMIENTO

TORSION @ 825 RPM (25°C)

MUESTRA APROBADA

COMPONENTE UL

CSA

C32704A

43.3 OZ. FT.

0604208A

#ARCHIVO E46412
CCN # PRGY2

#ARCHIVO LR43341
CLASE # 4211-01

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

ASME Y14.5M 1994

REGAL-BELOIT CORPORATION (RBC)
PROVEE ASISTENCIA TECNICA A NUESTROS CLIENTES EN VARIAS AREAS.
DESDE QUE RBC NO RECIBE TODOS LOS DATOS EN RELACION AL USO Y A LA APLICACION DEL MOTOR, LA APLICACION ADECUADA DEL MOTOR DEBE SER DETERMINADA POR EL CLIENTE.

DIMENSIONES SIN TOLERANCIA SON DE REFERENCIA SOLAMENTE

DIBUJADO POR:jrupert

05-12-2011

APROBADO POR:jrupert

05-12-2011

TERCER ANGULO DE PROYECCION

FECHA EDS: 11-11-2011
REV. FORMATO: G

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DE CARCASA - OLE

ENCERRADO

DE TAPA - OLE

ENCERRADO

DE CARCASA - LE

ENCERRADO

DE TAPA - LE

ABIERTA

TIPO DE MOTOR

CLIENTE

DISTRIBUTION SERVICE

REGAL-BELOIT CORPORATION

DESCRIPCION: MODEL-RFHP-48FR
OUTLINE

TAMAÑO: C

NUMERO DE DIBUJO: 786A

ESCALA:NONE

HOJA: 1

REV. ROT.

Ø5.70 [Ø144.8] MAX.

PARTE SUPERIOR PLACA DE DATOS (ADHESIVA)

LONGITUD DEL CABLE

LONGITUD DEL CABLE

CABLE DE TIERRA (LA TERMINAL HACIA EL MOTOR NO DEBE SOBREPASAR MAS ALLA DEL DIAM. EXT. DEL MOTOR)

CONEXION REVERSIBLE (EL MOTOR AL SE ENVIO CONECTADO PARA LA ROTACION DE CCWLE)

30°

11.93 [303.0]

5.87 [149.1]

6.06 [153.9]

.43 [11.0]

.43 [11.0]

PARTE SUPERIOR DE LA ETIQUETA DE ADVERTENCIA (ADHESIVA)

5.00 [127.0]

PLANO UTILIZABLE

90°

ARANDELA DE HULE EXT.

Ø.5000+.0000
-.0004

Ø12.700+.000
-.010

.49±.06 [12.4±1.5]

2X .453±.005 [11.51±.1]

PLANO

4X ROSCA #8-32 UNC-2A IGUALMENTE ESP. A UN DIAM. ENTIRE CENTROS DE Ø5.15 [Ø130.8] 90° APARTE

VERDE/AMARILLO (TIERRA)	11.0/13.0 [279/330]	OJAL #10
NEGRO/BLANCO	3.0/5.0 [76/127]	CONEXION REVERSIBLE
CAFE	25.0/27.0 [635/686]	.25 [6.4] TERMINAL ESPADE HEMBRA
CAFE/BLANCO	25.0/27.0 [635/686]	.25 [6.4] TERMINAL ESPADE HEMBRA
BLANCO	25.0/27.0 [635/686]	.25 [6.4] TERMINAL ESPADE HEMBRA
NEGRO	25.0/27.0 [635/686]	.25 [6.4] TERMINAL ESPADE HEMBRA
COLOR	LONGITUD	TERMINAL O LONGITUD DE DESFORRE

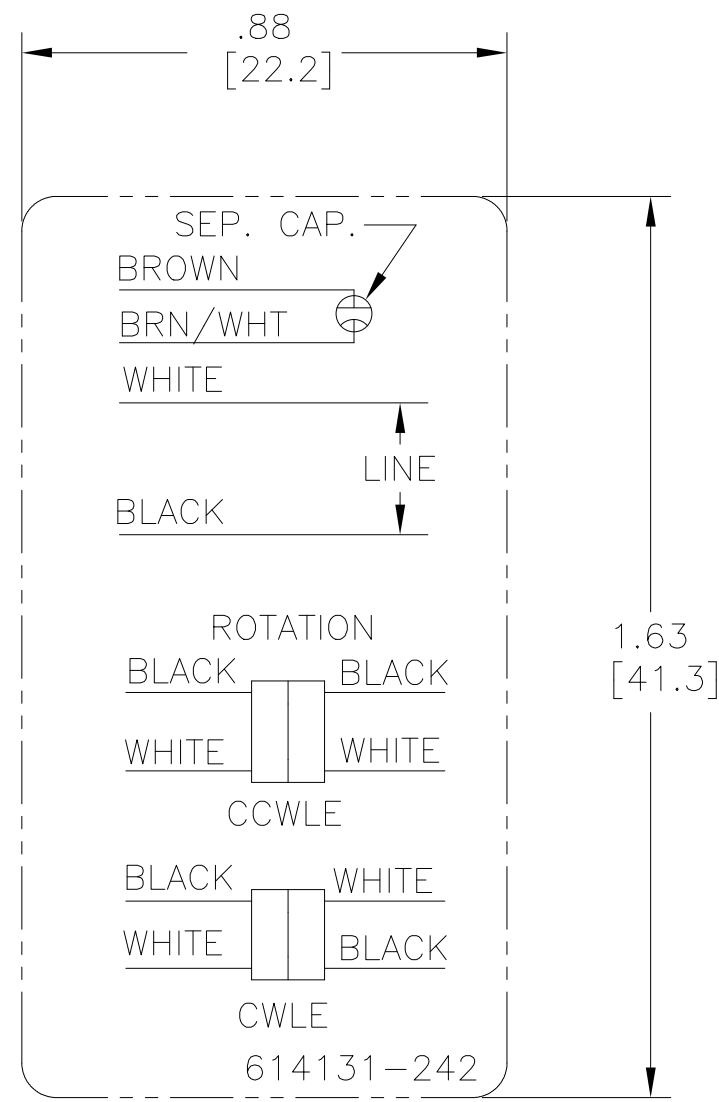
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- NOTES:
- 1. FOR USE WITH 614129 NAMEPLATE BLANK
 - 2. — — — — — INDICATES DIMENSION LIMITS
 - 3. DIE TO BE MADE FROM MASTER SUPPLIED BY REGAL REXNORD CORPORATION
 - 4. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

DRAWING REVISION H	REVISION BY J. RUPERT	DATE 03-16-2022	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 [.076/.381] X 45° CORNER FILLETS R.02 [.51] MACHINED SURFACES INCH 125 mm 3.2 mm SHOWN IN [BRACKETS]	DRAWN BY: YL	REGAL™ Regal Beloit America, Inc.			
ECO NMR-0213140	APPROVED BY J. RUPERT	DATE 03-16-2022		DATE: 04-15-2011	DESCRIPTION CONNECTION DIAGRAM EXTERNAL			
ECO DESCRIPTION REVISED FOR UP ISSUED				APPROVED BY: HZ				
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				REFERENCE	MATERIAL	PROCESS/FINISH		
				THIRD ANGLE PROJECTION	SIZE A	DWG NO 6 of 6	SHEET 1	