

PRODUCT INFORMATION PACKET



Model No: BL6424

Catalog No: BL6424

Fan and Blower Motor, 1/8,1/11 HP, 1 Ph, 60 Hz, 115 V, 1050 RPM, 2 Speed, 42 Frame, OAO



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Nameplate Specifications

Output HP	1/8,1/11 Hp	Output KW	0.10 kW
Frequency	60 Hz	Voltage	115 V
Current	5.0 A	Speed	1050 rpm
Service Factor	1	Phase	1
Duty	Air Over	Insulation Class	B
Frame	42Y	Enclosure	Open Air Over
Thermal Protection	Automatic	Ambient Temperature	40 °C
UL	Recognized	CSA	Y
CE	N	Number of Speeds	2

Technical Specifications

Electrical Type	Shaded Pole	Starting Method	Across The Line
Poles	6	Rotation	Counterclockwise Lead End
Mounting	Extended Studs	Motor Orientation	Horizontal
Drive End Bearing	Sleeve	Opp Drive End Bearing	Sleeve
Frame Material	N/A	Shaft Type	Flat
Overall Length	7.67 in	Shaft Diameter	0.500 in
Shaft Extension	4.1 in		
Connection Drawing	1022B34F03	Outline Drawing	326P154-OL

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4

3

2

1

GENERAL INFORMATION:

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

END PLAY: .010[.25] TO .063[1.60]

BEARINGS: SLEEVE

MOUNTING POSITION: HORIZONTAL

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (T.I. 7AM 304)

LEADS: NO.18 GA. .06[1.5] THICK, 125°C INSUL.

GROUND LEAD: NO.18 GA. .03[.8] THICK, GREEN INSUL.

NAMEPLATE DATA:

MODEL NO.: 326P154
CUST. P/N: BL6424
HP: 1/8 , 1/11
ROT.: CCWLE
RPM: 1050/2 SPD.
TYPE: FE
FRAME: 42Y
VOLTS: 115
PH: 1
AMPS: 5.0
HZ: 60
INS.: B
AMB.: 40° C
DUTY: AIR OVER
CAP.: -
ENCL: -
UL LOGO
CSA LOGO
THERMALLY PROTECTED TYPE C

EXTERNAL CONNECTION DIAGRAM

RED

LO

BLK

HI

WHT

LINE

PERFORMANCE CURVE NO.

TORQUE @1050 RPM (50°C)

APPROVED SAMPLE

UL COMPONENT

CSA

C30182

8.4 OZ. FT.

A7008A

E46412 PRGY2

LR43341 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

REV BY

DATE

APPD

DATE

E

0026399

J.AGUILERA

05-28-2012

R.RASCON

05-28-2012

CCW

ROT.

VIEW A-A

BEARING MARKER

10°

142°

74°

3X .46±.06 [11.7±1.5]

3X #8-32 TAPPED SCREW HOLES. LEAD END

LEAD LENGTH

TOP OF NAMEPLATE

ø4.88 [ø124.0]

ø12.694^{+.000}_{-.013}

ø.4998^{+.0000}_{-.0005}

2.750±.045 [69.85±1.14]

3X .46±.06 [11.7±1.5]

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

TOP OF WARNING STICKER. WHEN REQ'D

"TOP" IDENTIFIED

3.00 [76.2] USABLE FLAT

.453±.005 [11.51±.13] FLAT

2.750±.045 [69.85±1.14]

2X #8-32 TAPPED SCREW HOLES (OPP LEAD END) TO BE IN LINE WITH 2 HOLES IN LEAD END WITHIN 1"

7.67 [194.8]

3.90 [99.1]

3.77 [95.8]

3.34 [84.8]

.28 [7.1]

.28 [7.1]

GREEN

7.0/9.0 [178/229]

#10 EYELET

RED

27.0/29.0 [686/737]

.60[15.2] SKIN

BLACK

27.0/29.0 [686/737]

.60[15.2] SKIN

WHITE

27.0/29.0 [686/737]

.60[15.2] SKIN

COLOR

LENGTH

TERMINAL OR STRIP LENGTH

LEAD DATA

ENCLOSURE

CUSTOMER

AMMO

DR BY:

BRADEN

01-19-1988

APPD:

B.ISOM

THIRD ANGLE PROJECTION

EDS DATE 11-11-2011

FORMAT REV H

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DESCRIPTION

MODEL-RFHP-42FR OUTLINE

SIZE C

DWG NO 326P154-OL

SCALE NONE

SHEET 1

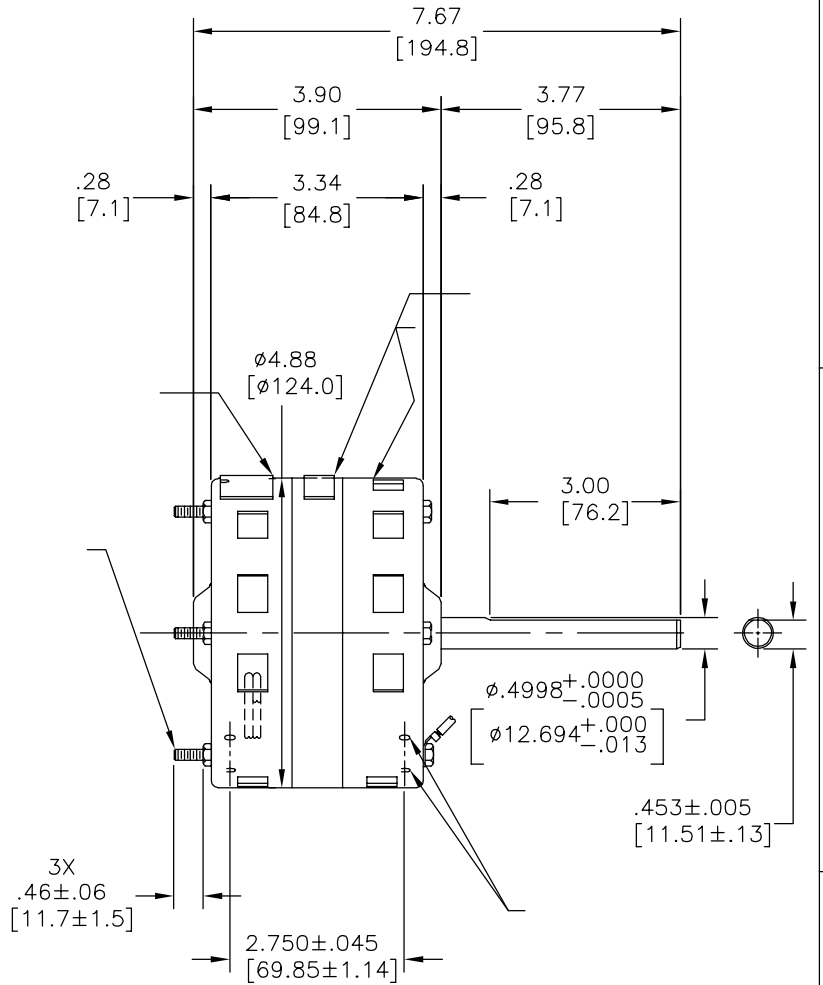
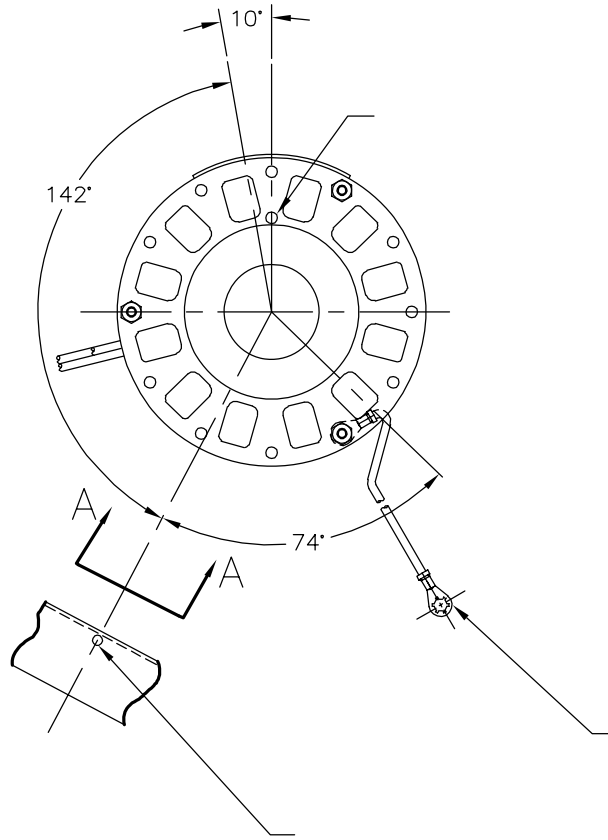
3 of 6

接地线:

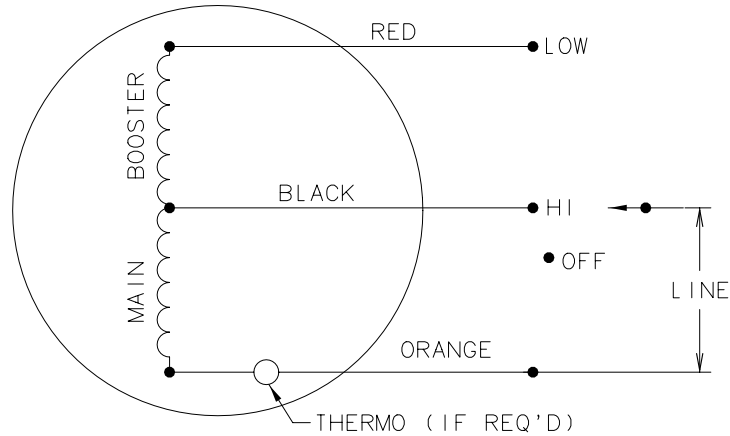
	7.0/9.0 [178/229]	
	27.0/29.0 [686/737]	
	27.0/29.0 [686/737]	
	27.0/29.0 [686/737]	
颜色	长度	端子或剥线长度
引线数据		

用户	AMMO
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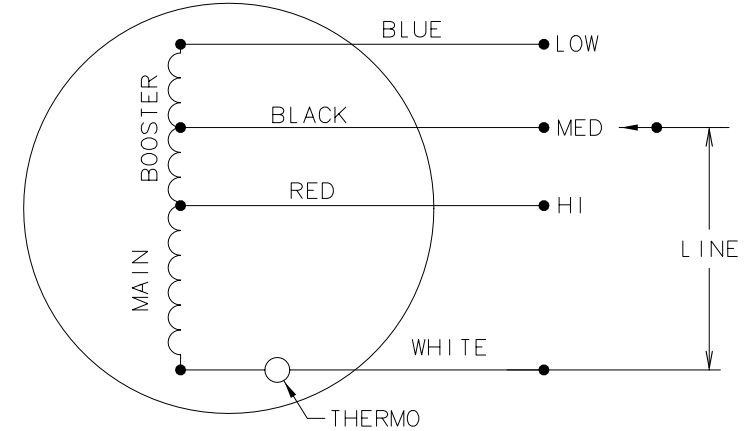
形位公差	平面度
	直线度
	倾斜度
	垂直度
	平行度
	圆度
	圆柱度
	轮廓度
	轮廓度
	跳动度
	位置度
	同轴度
	对称度



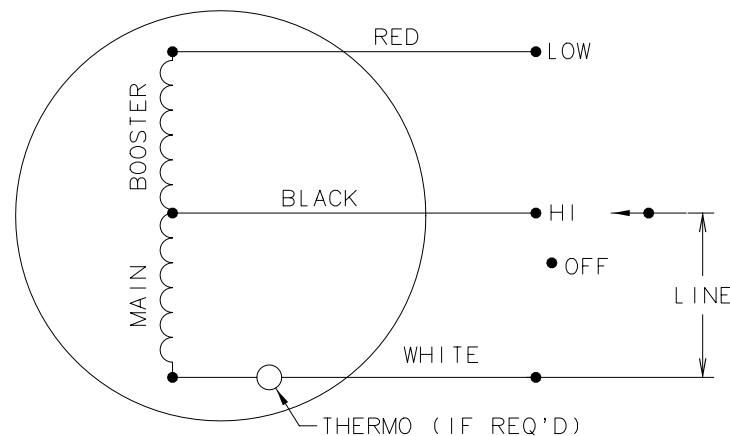
1022B34



2 SPEED, FIG. 1



3 SPEED, FIG. 2



2 SPEED, FIG. 3

QUALITY CONTROL NOTE:
TO CHECK THE WDGS. FOR OPENS, VERIFY
THE CONTINUITY AS FOLLOWS:

FIG. 1--BETWEEN THE RED & ORANGE LEADS

FIG. 2--BETWEEN THE WHITE & BLUE LEADS

FIG. 3--BETWEEN THE RED & WHITE LEADS

DATE	CHANGED FROM	APPROVED ENG/DRF	NOTICE	DATE	CHANGED FROM	APPROVED ENG/DRF	NOTICE	GEOMETRIC CHARACTERISTICS & SYMBOLS	UNLESS OTHERWISE SPECIFIED DIMENSION TOLERANCES ARE AS FOLLOWS	MATERIAL	DRAWN	STOKES 06/23/81	A.O. SMITH ELECTRICAL PRODUCTS CORPORATION TIPP CITY, OHIO COPYRIGHT 1995
				07/09/03	REDRAWN TO CAD	KAGKAG	0343946	□ FLATNESS — STRAIGHTNESS < ANGULARITY ⊥ PERPENDICULARITY (SQUARENESS) // PARALLELISM ○ ROUNDNESS (CIRCULARITY) ⌀ CYLINDRICITY ▭ PROFILE OF ANY SURFACE ▭ PROFILE OF ANY LINE ⌒ RUNOUT ⊕ TRUE POSITION ◎ CONCENTRICITY = SYMMETRY	.INCHES .X .XX .XXX ±.02 ±.005 METRIC ±.5 ±.13 ANGLES ±.50 DEG REMOVE BURRS AND BREAK SHARP EDGES .003-.015 CORNER FILLETS TO .020 MACHINE SURFACES 125 ✓	-	APPROVED	CORBIN 60/30/81	
										PROCESS	REFERENCE	-	DESCRIPTION
											APPLICATION	-	SIZE
											USER/FILIER 42/CONEXT		B PART NUMBER 1022B34
											SCALE	-	NOTICE
													SHEET 1