

PRODUCT INFORMATION PACKET



Model No: B6520

Catalog No: B6520

Fan and Blower Motor, 1/4 1/5 1/6 HP, 1 Ph, 60 Hz, 230 V, 1075 RPM, 3 Speed, 42 Frame, OPEN



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Nameplate Specifications

Output HP	1/4 1/5 1/6 Hp	Frequency	60 Hz
Voltage	230 V	Current	2.0 A
Speed	1075 rpm	Service Factor	1
Phase	1	Duty	Air Over
Insulation Class	B	Frame	42Y
Enclosure	Open Enclosed	Thermal Protection	Automatic
Ambient Temperature	40 °C	UL	Recognized
CSA	Y	CE	N
Number of Speeds	3		

Technical Specifications

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Mounting	Extended Studs	Motor Orientation	Horizontal
Drive End Bearing	Sleeve	Opp Drive End Bearing	Sleeve
Frame Material	N/A	Shaft Type	Flat
Overall Length	9.83 in	Shaft Diameter	0.500 in
Shaft Extension	4.7 in		
Connection Drawing	617836	Outline Drawing	B6520-s01

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GENERAL INFORMATION:

SHAFT RUNOUT: .001 [.025] T.I.R. PER INCH LENGTH OF EXTENSION

END PLAY: .010[.254] TO .063[1.600]

BEARINGS: SLEEVE

MOUNTING: HORIZONTAL

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (SENSATA 7AM 304)

LINE LEADS: NO. 18 GA., .03 [.76] THK. 125°C INSUL.

REVERSING LEADS: NO. 18 GA., 125°C INSUL. (.03 THK. BLACK,BLUE, AND WHITE) (.06 THK. BROWN)

GROUND LEAD: NO. 18 GA., .03 [.76] THK. (GREEN) INSUL.

NAMEPLATE DATA:

MODEL: 322P925
CUST. P/N: B6520
HP: 1/4 1/5 1/6
ROT: REV.
RPM: 1075/3 SPD
TYPE: FLL
FRAME: 42Y
VOLTS: 230
PH: 1
AMPS: 2.0
HZ: 60
INS: B*
AMB: 40C
DUTY: AIR OVER
CODE: -
CAP.: 5 MFD/370V
UL LOGO
CSA LOGO
THERMALLY PROTECTED
TYPE C

EXTERNAL CONNECTION DIAGRAM

RED — LO

BLU — MED

BLK — HI

WHT — LINE

BRN/WHT

BRN

ROTATION AT LEAD END

CW CCW

WHT BRN

BLK WHT

BLU BLU

BRN BLK

PERFORMANCE CURVE NO.

TORQUE @1075 RPM (25°C)

APPROVED SAMPLE

UL COMPONENT

CSA

C30185

20.0 OZ. FT.

PSE7727C

E45993

PRGY2

LR43341

4211-01

REV. ROT.

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

STUD EXT. ON SHAFT END

BEARING MARKER (BOTH ENDS)

LEAD LENGTH

LEAD LENGTH

LEAD LENGTH

WHITE

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

9.29 [235.97]

5.17 [131.32]

4.12 [104.65]

.54 [13.72]

4.09 [103.89]

.54 [13.72]

4.00 [101.60] USABLE FLAT

φ4.88 [123.95]

3X .80±.06 [20.32±1.52]

φ4.42 [112.27] B.C.

TOP OF NAMEPLATE (ADHESIVE)

TOP OF WARNING STICKER(ADHESIVE)

"TOP" STAMPED

φ.5000+.0000-.0004 [φ12.7000+.0000-.0102]

.453±.005 [11.506±.127] FLAT

GREEN(GRD)

5.0/7.0[127.0/177.8]

#10 EYELET

BLUE(REV)

4.0/6.0[101.6/152.4]

PRE-INSUL. TAB TERM.

BLACK(REV)

4.0/6.0[101.6/152.4]

PRE-INSUL. SPADE TERM.

WHITE(REV)

4.0/6.0[101.6/152.4]

PRE-INSUL. TAB TERM.

BROWN(REV)

4.0/6.0[101.6/152.4]

PRE-INSUL. SPADE TERM.

BROWN/WHITE TRACER

12.0/14.0[304.8/355.6]

.25[6.35] FLAG

BROWN

12.0/14.0[304.8/355.6]

.25[6.35] FLAG

BLUE

28.0/30.0[711.2/762.0]

.60 [15.24] SKIN

RED

28.0/30.0[711.2/762.0]

.60 [15.24] SKIN

BLACK

28.0/30.0[711.2/762.0]

.60 [15.24] SKIN

WHITE

28.0/30.0[711.2/762.0]

.60 [15.24] SKIN

COLOR

LENGTH

TERMINAL OR STRIP LENGTH

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.

MAIN FRAME — OLE

OPEN

END FRAME — OLE

OPEN

MAIN FRAME — LE

OPEN-BELOW 1/2

END FRAME — LE

OPEN-BELOW 1/2

CUSTOMER

DIST. SERVICE

DRAWING REVISION

REVISION BY

DATE

ECO

APPROVED BY

DATE

ECO DESCRIPTION

NEW DRAWING

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DATE:

REFERENCE

THIRD ANGLE PROJECTION

REGAL™

Regal Beloit America, Inc.

MODEL-RFHP-42FR

OUTLINE

MATERIAL

PROCESS/FINISH

SIZE DWG NO

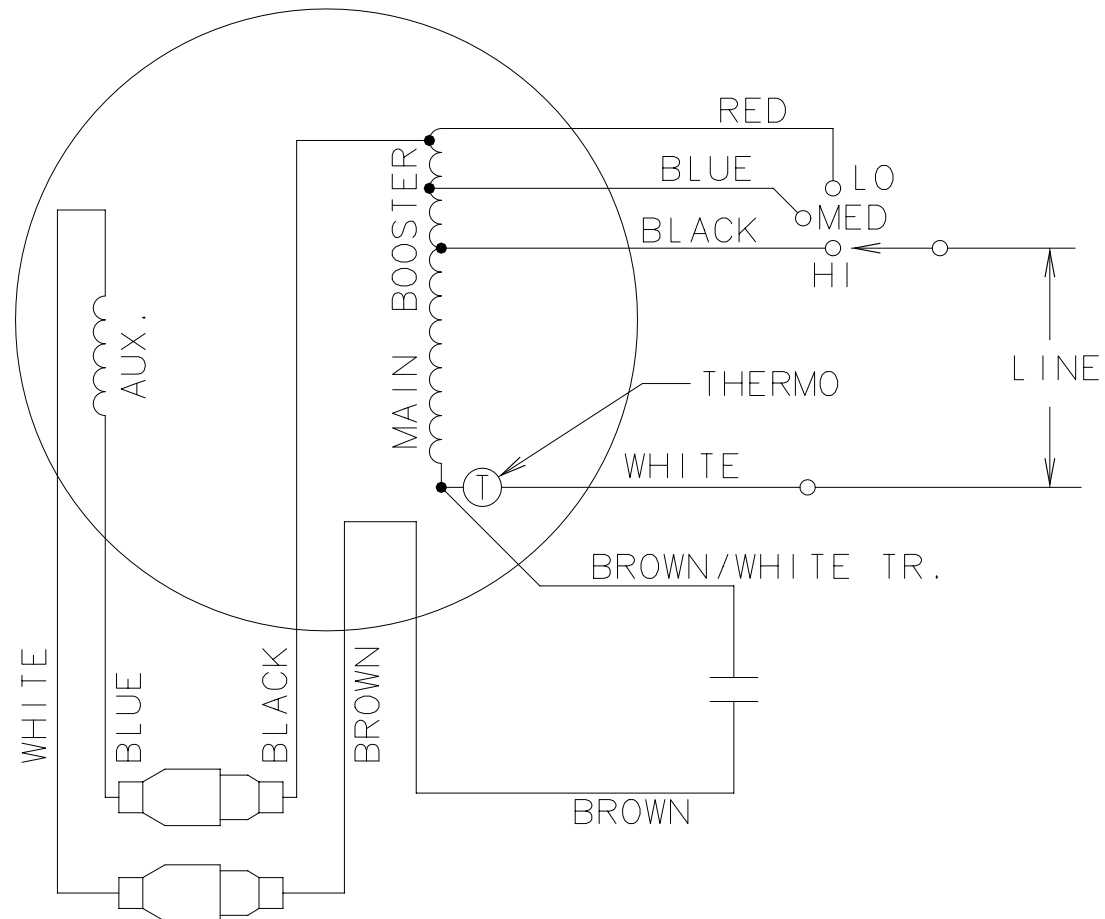
SHEET

B6520

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QUALITY CONTROL NOTE

TO CHECK THE WINDINGS FOR
OPENS, VERIFY THE CONTINUITY
BETWEEN THE PLAIN BROWN LEAD
& THE WHITE LEAD AND BETWEEN
THE PLAIN BROWN & THE RED
LEAD.

	<u>CCW</u>	
BROWN	—	WHITE
BLUE	—	BLACK

	CW	
WHITE	—	BLACK
BLUE	—	BROWN

REV. ROT., TYPE FLL,
" L " CONNECT

DATE	CHANGED FROM	NOTICE	MATERIAL	PROCESS	A.O.SMITH ELECTRICAL PRODUCTS COMPANY TIPP CITY, OHIO		A DIVISION OF A.O.SMITH CORPORATION  COPYRIGHT 1992	
					DRAWN BY	NPN NO.	DESCRIPTION	
			FIRST MODEL 322P925	SHEET 1 OF 1	HEATH	17615	FR.42 TYPE FLL	
			NO. OF MODELS	REFERENCE	SCALE	APPROVED BY	REL. DATE	DIAG. MLW
			1	617730	NONE		7/21/87	PART NO.
			LIMITS UNLESS OTHERWISE SPECIFIED:			GROUP CODE	FILE CODE	617836
			FRACTIONS±NONE ANGLES± NONE			FR42	CONEXT	
			DECIMALS ±NONE					

* CADAM DWG. -DO NOT ALTER

B# 10