

PRODUCT INFORMATION PACKET



Model No: ORV4540

Catalog No: ORV4540

OEM Replacement Motor, 1/5 HP, 1 Ph, 60 Hz, 115 V, 1650 RPM, 3 Speed, 42 Frame, OPEN



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Nameplate Specifications

Phase	1	Output HP	1/5 Hp
Output KW	0.15 kW	Voltage	115 V
Speed	1650 rpm	Service Factor	1.0
Frame	42Y	Enclosure	Open Enclosed
Thermal Protection	Automatic	Ambient Temperature	40 °C
Frequency	60 Hz	Current	2.5 A
Duty	Air Over	Insulation Class	B
UL	No	CSA	Y
CE	N	Number of Speeds	3

Technical Specifications

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	4	Rotation	Counterclockwise Lead End
Mounting	Lug	Motor Orientation	Horizontal
Drive End Bearing	Sleeve	Opp Drive End Bearing	Sleeve
Frame Material	Na	Shaft Type	Flat
Overall Length	10.44 in	Shaft Diameter	0.500 in
Shaft Extension	4.0X.5X2.6 in		
Outline Drawing	ORV4540-S01	Connection Drawing	620536

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GENERAL INFORMATION:

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

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

BEARINGS: SLEEVE

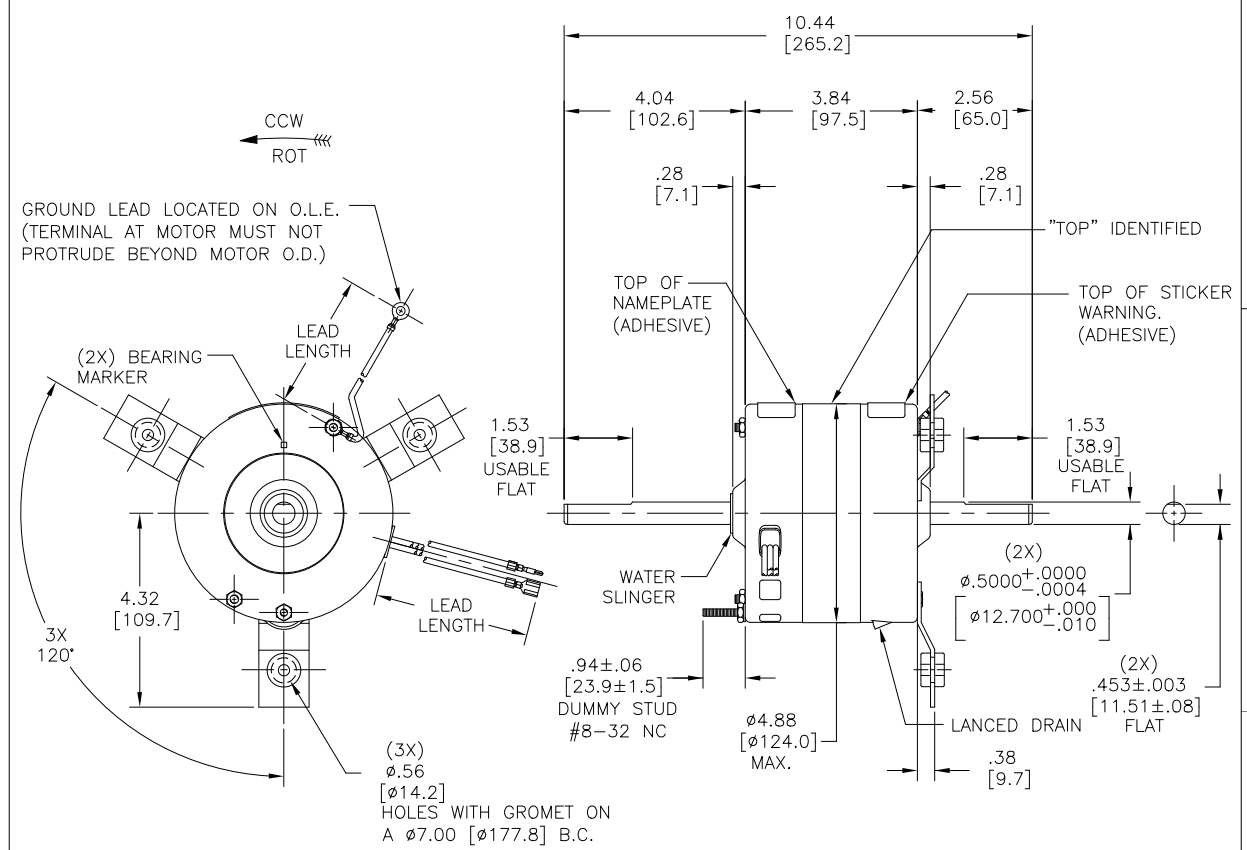
MOUNTING POSITION: HORIZONTAL

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (SENSATA 7AM 304)

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

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



NAMEPLATE DATA:		EXTERNAL CONNECTION DIAGRAM	
MODEL NO.: F42C40A01 CUST. P/N: ORV4540 HP: 1/5 ROT.: CCWLE RPM: 1650/3 SPD. TYPE: FLL FRAME: 42Y VOLTS: 115 PH: 1 AMPS: 2.5 HZ: 60 INS.: B* AMB.: 40° C DUTY: AIR OVER CAP.: 5 MFD/370 V CSA LOGO AND FILE NO. UL FILE NO. THERMALLY PROTECTED TYPE C			

PERFORMANCE CURVE NO.	TORQUE @ 1650 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT	CSA
C30819	9.9 OZ. FT.	91AC300A	E27885	XEWR2
			FILE #	CCN #
			FILE #	CLASS #
			LR43341	4211-01

GREEN/YELLOW (GROUND)	4.0/5.0 [102/127]	#10 EYELET
RED	42.0/45.0 [1067/1143]	AMP PIN 770007-1
YELLOW	42.0/45.0 [1067/1143]	AMP PIN 770007-1
BLACK	42.0/45.0 [1067/1143]	AMP PIN 770007-1
WHITE	26.0/28.0 [660/711]	.25 [6.4] FEMALE SPADE
BROWN	26.0/28.0 [660/711]	.25 [6.4] FEMALE SPADE
COLOR	LENGTH	TERMINAL OR STRIP LENGTH

- NOTES:
- FACE OF MOUNTING LUGS MUST BE WITHIN 2" OF PLANE 90° TO SHAFT.
 - LEAD WIRE MUST NOT HAVE TIGHT BENDS OR KINKS.

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

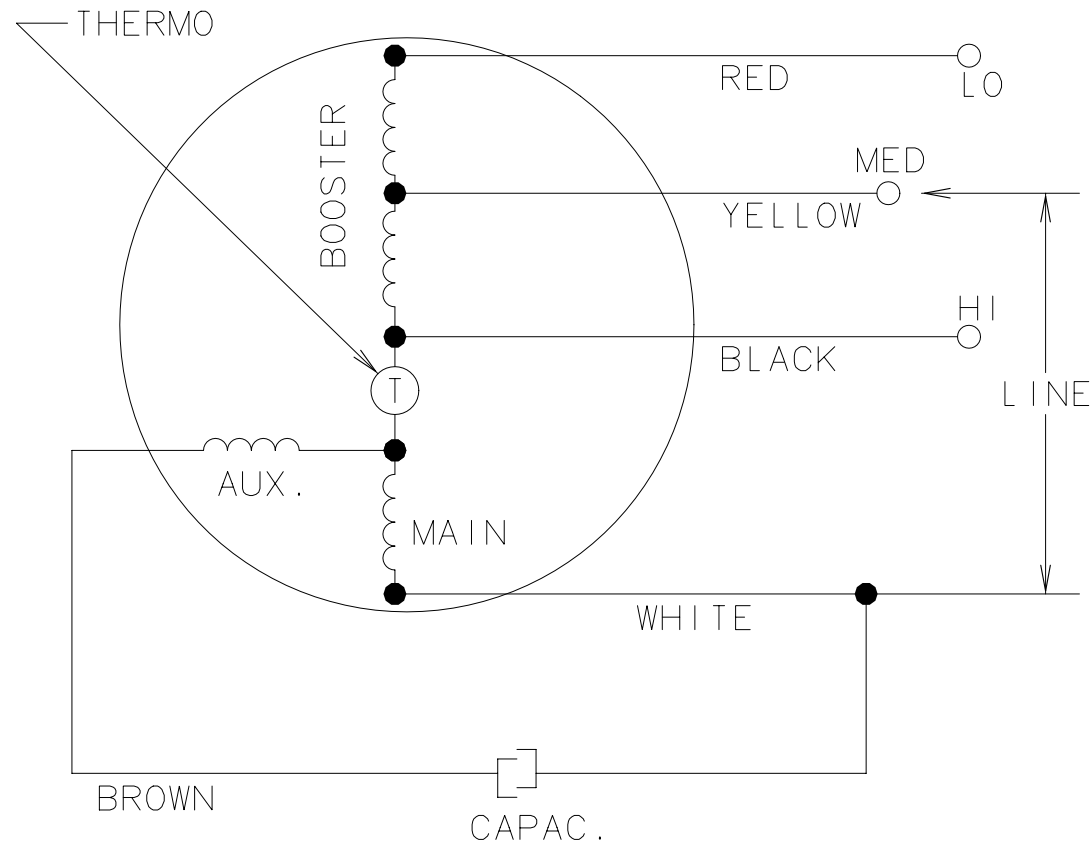
CUSTOMER	DISTRIBUTION SERVICE
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DRAWING REVISION		DATE
G	REVISION BY J. RUPERT	04-03-2023
ECO	APPROVED BY J. RUPERT	04-03-2023
ECO DESCRIPTION CHANGED UL FILE NUMBER		
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ENCLOSURE		CUSTOMER		DISTRIBUTION SERVICE	
DRAWN BY: J. RUPERT		REGAL™ Regal Beloit America, Inc.			
DATE: 04-03-2023		DESCRIPTION		MODEL-RFHP-42FR	
APPROVED BY: J. RUPERT		OUTLINE			
DATE: 04-03-2023		MATERIAL		PROCESS/FINISH	
REFERENCE 11785-021		SIZE DWG NO		SHEET 1	
THIRD ANGLE PROJECTION		ORV4540			

620536

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**QUALITY CONTROL NOTE**

TO CHECK THE WINDINGS FOR OPENS VERIFY THE CONTINUITY BETWEEN:

- (1) RED & WHITE LEADS
- (2) BROWN & WHITE LEADS

DATE	CHANGED FROM	NOTICE	MATERIAL		PROCESS		A.O. SMITH ELECTRICAL PRODUCTS COMPANY TIPP CITY, OHIO		A DIVISION OF A.O. SMITH CORPORATION  COPYRIGHT 1992	
10-25-91	ADDED "BLACK HI "	42184-1					DRAWN BY		NPN NO.	
			FIRST MODEL F42A25A61		SHEET 1 OF 1		MCNAMEE		20832	
			NO.OF MODELS		REFERENCE		SCALE		APPROVED BY	
							NONE		REL. DATE	
									10-7-91	
									PART NO.	
							LIMITS UNLESS OTHERWISE SPECIFIED:		GROUP CODE	
							FRACTIONS±NONE ANGLES± NONE		FR42	
							DECIMALS ±NONE		FILE CODE	
									CONEXT	
									620536	

* CADAM DWG. -DO NOT ALTER