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	 Description - 1/3 HP, 208-240 V, indoor blower motor suitable for residential and light commercial HVAC applications. Three speeds with reversible rotation. Physical Characteristics: a. Dimensions - See Fig. 1. Primary dimensions and tolerances are in millimeters. Parenthetical reference dimensions are in inches. b. Frame Designation - NEMA 48 c. Design Type - Permanent split capacitor (PSC) six pole induction motor. d. Overload Protection - Automatic reset thermal protector in series with motor windings. Protector is embedded in direct contact within motor windings. e. Insulation System - Class B (130 °C) f. Winding Resistance at 25 °C - 19.3/50.9/6.6/6.7 ohms nominal g. Endplates - Cast aluminum 									
	 h. Shell - Cold-rolled painted steel. Corrosion protection system shall comply with ASTM B117. i. Motor shaft - Cold-rolled steel j. Bearings - One provided in each end plate. Brass sleeve bearings. Permanent hydrodynamic lubrication. Bearing design shall comply with Rheem qualification tests CQP-12.4 and CQP-12.6. k. Thru-bolts - Four 5.38 in. [13.7 cm] long 8-32 threaded bolts 									
3.	 Application/Performance Characteristics: a. Mounting Methods - Thru-bolt or belly-band b. Mounting Orientation - Shaft-up or Shaft-down c. Rotation Direction - Reversible (controlled via reversing leads) d. Nominal RPM - 1075/950/850 e. Number of speeds - Three f. Torque-Speed Curve - Reference Fig. 2 									
	 4. Electrical Ratings: a. Horsepower - 1/3 HP b. Voltage - 208-240 VAC (Single Phase) c. Frequency - 60Hz d. Full Load Amps (FLA) - 2.2 A e. Locked Rotor Amps (LRA) - 4.3 A f. Required Run Capacitor - 5uF/370V 									
5.	 5. Electrical Connections: a. Conductors - All conductors shall be 18 AWG stranded copper wire. Minimum length 25 in. [65.0 cm], except ground lead, minimum 12 in. [30.5 cm]. Length of reversing leads is not specified. b. Insulation: i. Type - UL Recognized Appliance Wiring Material, with minimum ratings of 600V, 105C, VW-1. ii. Thickness - Min 3/64 in. [1.19 mm], except ground lead, min. 1/32 in. [0.79 mm] iii. Color - See Fig. 3. Ground lead shall be green or green with a yellow stripe. c. Terminations: i. Capacitor Leads - 1/4 in. fully insulated quick connect terminals ii. Ground Lead - Ring terminal iii. Reversing Leads - Mating male/female fully insulated quick connect terminals 									
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Drawn By: Reviewed B		- <u>11/10/08</u> - <u>Date:</u>	RHEEM CONFIDENTIAL INFORMATION. NO REVISION TO DESIGN, MATE IS ACCEPTABLE WITHOUT PRIOR APPROVAL FROM RHEEM THROUGH / SPECIFICATION AND A RESAMPLING OF PARTS. THE SUPPLIER IS RESI RHEEM PARTS DEPARTMENT AND PURCHASING DEPARTMENTS IN WRI AFFECTING PRODUCT QUALITY, PERFORMANCE, RELIABILITY, PACKAG WORKMANSHIP. ANY DOCUMENTS REFERRED TO ON THIS DRAWING A SPECIFICATIONS FOR THIS COMPONENT.	A REV PONS ITING SING, I	ISED ENGINEERING IBLE FOR NOTIFYING OF ANY CHANGES DELIVERY OR					
	Der	-	PROTECH UNIVERSAL 1/3 HP	Di	rect Drive	W51-13BJA3-0)1			

Indoor Blower Motor – 208-240 V

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Sheet 2 of 3

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Fig. 4	"XXXXXXX". PR©TECH- UNIVERSAL HF: 1/3 RPM: 1075/950/850 Yoltage: 208-240V-60Hz-1ph FLA/LRA: 2.2/4.3A Rotation: Reversible Capacitor: 5.0uF/370V Frame: NEMA 48 Date Code: xXXXXXXX Indoor Blower Motor WIND DIAGRAM							
Fig. 5	BRN BRNWHT ORG A PUL MZ MI M RED BLU BLK WHT CCW CW YEL BRN BRN ORG YEL	Label size: 1.375 in. x 1.5 i	n.					
Fig. 6	RPM: XXU Voltage: XXU SPX Voltage: XELA/LRA: XELA/LA: XELA/LRA: XELA/LA: XELA	1075/950/850 208-240V-60Hz-1ph 2.2 / 4.3A	N V				Label siz 1.375 in. 7.00 in.	
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