

			F	REV	NOTES		DATE		
			c		Added mounting faster Removed label. DGR	ners, box end printing.	8/14/12		
 Description - 1/6-1/3 HP, 208-240 V, outdoor condenser fan motor suitable for residential and light commercial HVAC applications. Single speed with reversible rotation. Physical Characteristics: Dimensions - See Fig. 1. Primary dimensions and tolerances are in millimeters. Parenthetical reference dimensions are in inches. Frame Designation - NEMA 48 Design Type - Permanent split capacitor (PSC) six pole induction motor. Overload Protection - Automatic reset thermal protector in series with motor windings. Protector is embedded in direct contact within motor windings. Insulation System - Class B (130 °C) Winding Resistance at 25 °C - 21.11/40 ohms nominal Endplates - Cast aluminum Shell - Cold-rolled painted steel. Corrosion protection system shall comply with ASTM B117. Motor shaft - Cold-rolled steel Bearings - One provided in each end plate. Brass sleeve bearings. Permanent hydrodynamic lubrication. Bearing design shall comply with RNeem qualification tests CQP-12.4 and CQP-12.6. K. Thru-bolts - Four 5-3/41 m [14.6 cm] long 8-32 threaded through-bolts Plug for Unused Drain Hole - One rubber plug capable of being removed and installed in the appropriate end plate to prevent water intrusion. Installed in factory for shaft-down operation in the endplate opposite the shaft Mater Singer - One rubber washer water slinger installed on motor shell. Optional - Nuts can be supplied loose in a poly bag. Plating – Zinc Additional hardware to be included: I. Four (4) #8-32 KEPS nuts or four (4) #8-32 flange nuts to be installed on the ontor studs. Optional - Nuts can be supplied loose in a poly bag. Plating – Zinc I. Four (4) #8-32 KEPS nuts or four (4) #8-3									
					Pa	rt No. [s]			
Drawn By:	DGR	8/14/12	RHEEM CONFIDENTIAL INFORMATION. NO REVISION TO DESIGN, MATERIAL, TOOLING OR PROCESS IS ACCEPTABLE WITHOUT PRIOR APPROVAL FROM RHEEM THROUGH A REVISED ENGINEERING						
Reviewed By: ESP		9/6/12	SPECIFICATION AND A RESAMPLING OF PARTS. THE SUPPLIER IS RESPONSIBLE FOR NOTIFYING RHEEM PARTS DEPARTMENT AND PURCHASING DEPARTMENTS IN WRITING OF ANY CHANGES AFFECTING PRODUCT QUALITY, PERFORMANCE, RELIABILITY, PACKAGING, DELIVERY OR WORKMANSHIP. ANY DOCUMENTS REFERRED TO ON THIS DRAWING ARE INCLUDED IN THE		OF ANY CHANGES DELIVERY OR				
		Date:	SPECIFICATIONS FOR THIS COMPONENT.						
Parts			PROTECH UNIVERSAL 1/6-1/3 HP Direct Drive		/3 HP	W51-MHCJA1	-01		
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Outdoor Condenser Fan Motor - 208-240 V

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REV	NOTES	DATE
	Added mounting fasteners, box end printing. Removed label. DGR	8/14/12

5. Electrical Connections:

- a. Conductors All conductors shall be 18 AWG stranded copper wire. Minimum length 37 in. [94.0 cm], except ground lead, minimum 11.8 in. [30.0 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 with internal paint breaking serrated edge
 - iii. Reversing Leads Mating male/female fully insulated quick connect terminals
- 6. **Agency Certifications -** The motor shall comply with the requirements of UL 1004 and UL 2111, and be UL Recognized under the PRGY2 and XEWR2 product categories. UL File Number E256965.

7. Marking/Labeling - The labels shown in Fig. 5 and Fig. 6 and Fig. 7 shall be provided on the motor shell. Labels shall be provided on a UL Recognized Component Marking and Labeling System (PGDQ2 product category) suitable for outdoor use on a painted steel surface, with a rated temperature range of -35°F to 130°F [-37C to 55C]. A date or batch code shall be provided in the area marked "xxxxxxxx". The vendor part number shall be provided in the area marked "Yxxxxxxxx".

8. Individual Packaging:

- a. Carton Material:
 - i. Outside linerboard to be white
 - ii. Double wall construction
 - iii. Complies with ECT (edge crush test) of at least 32 pounds/in.
 - iv. Minimum 1 1/4" glue tab; manufacturer's joint to be stitched or glued
 - v. Gross weight capacity should be at least 65 pounds
- b. Each box shall be provided with internal packing or support adequate to prevent motor movement within box.

c. Marking/Labeling - Representative content shown in Fig. 4 shall be color printed on faces of the box. Bar Code shall be in 3 of 9 format. UPC number is 662766406900. A date or batch code shall be provided in the area marked "xxxxxxxx". See artwork - *Condenser Motor Box_MHC.ai* for size, CMYK color and layout.

			Part No. [s]
Drawn By: DGR	8/14/12	RHEEM CONFIDENTIAL INFORMATION. NO REVISION TO DESIGN, MATERIAL, TOOLING OR PROCESS IS ACCEPTABLE WITHOUT PRIOR APPROVAL FROM RHEEM THROUGH A REVISED ENGINEERING	
Reviewed By: ESP	9/6/12	SPECIFICATION AND A RESAMPLING OF PARTS. THE SUPPLIER IS RESPONSIBLE FOR NOTIFYING RHEEM PARTS DEPARTMENT AND PURCHASING DEPARTMENTS IN WRITING OF ANY CHANGES AFFECTING PRODUCT QUALITY, PERFORMANCE, RELIABILITY, PACKAGING, DELIVERY OR WORKMANSHIP. ANY DOCUMENTS REFERED TO ON THIS DRAWING ARE INCLUDED IN THE	
	Date:	SPECIFICATIONS FOR THIS COMPONENT.	
Parts Engineering		PROTECH UNIVERSAL 1/6-1/3 HP	W51-MHCJA1-01
		Direct Drive	
	liteering	Outdoor Condenser Fan Motor – 208-240 V	Sheet 3 of 4

