



Formerly A. O. Smith Electrical Products Company

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Ease of Configuration, Versatility Make Multi-Horsepower Motors and Multi-Rated Capacitors Must Have Products for Service Contractors

Highly versatile replacement products that can reduce the time spent by service contractors traveling back and forth from jobs to get supplies – not to mention the fuel savings and reduced truck inventory carrying costs – are must-haves on a serious installer’s van or truck. Multi-horsepower motors fall into the coveted category and are especially prized when offered in conjunction with multi-rated capacitors.

These two complementary replacement products can be configured to make numerous acceptable substitutions in the field. Consider the versatility installers gain with the popular Century MasterFit® Pro line of HVAC replacement motors that come with a MasterFit® APC capacitor in the carton. The condenser fan motors offer end frames with four mounting holes specifically designed to replace Rheem and Trane OEM motors. The direct drive fan and blower motors in the same line feature four speeds each. When paired with the multi-rated APC capacitor with five possible microfarad configurations, a contractor can address 20 condenser fan motor replacement scenarios with a single MasterFit Pro carton.

While the versatility is reason enough for service contractors – especially those offering emergency service - to carry multi-speed motors and multi-rated capacitors, the ease of configuration is a significant added bonus as we shall see.

Configuration of Multi-Rated Capacitors a Simple Process

Multi-rated capacitors are designed specifically to meet a wide range of microfarad settings as required for multi-horsepower motors. With just one multi-rated MasterFit® APC capacitor for example, a service contractor has five microfarad configurations to choose from ranging from 5.0 mfd through 15.0 mfd.

Configuration can be accomplished quickly, with basic microfarad requirements achievable by simply connecting the first of two wires from the motor to the common and the other wire either to the white 5.0 mfd terminal or to the brown 7.5 mfd terminal depending on need. If the microfarad requirement for the particular application is higher than 7.5 mfd, the service contractor can make use of two jumper wires conveniently included in each APC capacitor carton. The set of jumper wires can be connected to the appropriate terminals to dial in the microfarads desired up to 15.0 mfd.

5.0 or 7.5 mfd - If the microfarad requirement for the particular application is higher than 7.5 mfd, the service contractor can make use of two jumper wires conveniently included in each APC capacitor carton. The set of jumper wires can be connected to the appropriate terminals to dial in the microfarads desired up to 15.0 mfd.



10.0 mfd - To configure the capacitor for 10.0 mfd a contractor would connect the one motor wire to the common and the other to the brown 7.5 mfd terminal. Then one jumper wire would be utilized to connect the brown 7.5 mfd terminal to the green 2.5 mfd terminal for a total 10.0 mfd.

12.5 mfd - If the application required 12.5 mfd, the same initial wiring would be employed with one motor wire connected to the common and the other applied to the brown 7.5 mfd terminal. Then one jumper wire would be utilized to connect the white 5.0 mfd terminal to the brown 7.5 mfd terminal for a total 12.5 mfd.



15.0 mfd - For applications requiring 15.0 mfd the two motor wires are connected one to the common and the other to the brown 7.5 mfd terminal. One jumper wire would then be utilized to connect the green 2.5 mfd terminal and the white 5.0 mfd terminal. The second jumper wire would then be used to connect the white 5.0 mfd terminal to the brown 7.5 mfd terminal for a combined 15.0 mfd.