Definite purpose contactor wiring

Product category catalogue Contactors for defined purposes can be used for heating, air conditioning, refrigeration, data processing and food service equipment. The quick-connect terminals offer easy wiring. This contactor is available as two poles on a small frame. Product category catalogue Contactors for defined purposes can be used for heating, air conditioning, refrigeration, data processing and food service equipment. The quick-connect terminals offer easy wiring. This contactor is equipped with three poles on a large frame. Product Category Catalog Eaton offers one of the most comprehensive lines of Definite Purpose (DP) contactors in the industry. Designed for heating, ventilation, air conditioning and refrigeration (HVACR) applications, Eaton's DP contactors are designed to handle the most demanding installations. Product Category Catalog Eaton offers one of the most comprehensive lines of Definite Purpose (DP) contactors in the industry. 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What are the contactors for defined purposes? DP contactors are electronically control switches used to switch a power circuit. Originally designed for the HVACR industry, their use has extended to a variety of other market segments. In general, if you have an application that heats, cools, refrigerates, controls or moves air, then it is a likely candidate for these devices. Unlike generic relays, contactors are designed to be connected directly to high current load devices. Relays tend to have a lower capacity and are usually designed for both normally closed and Open. Devices that change more than 15 amps or in circuits classified more than a few kilowatts are usually called contactors. In addition to optional low current auxiliary contacts, contactors are equipped almost exclusively with normally open contacts (Module A). In addition, contactors are designed with functions to control and suppress the product arc heavy motor currents. When the current passes through the electromagnet, a magnetic field is produced, which attracts the mobile nucleus of the contactor. The electromagnet coil initially draws more current, until its inductance increases when the metal core enters the coil. Mobile contact is driven by the mobile core; the force developed by the electromagnet holds together mobile and fixed contacts. When the contactor coil is de-energed, gravity or a spring returns the electromagnet core to its initial position and opens the contacts. Within the OEM segment of air conditioning, DP contactors can be grouped into two main categories, depending on the application: it ranges from 20 A to 40 A Often the main choice for central air conditioning units installed in many homes. The standard voltages of the ca coil are 24 V, 120 V and 240 V. Varies from 15 A to 360 A Used mainly in the largest commercial/industrial air conditioning units that can be seen mounted on the roofs of industrial plants, hotels, hospitals, office buildings and other commercial and industrial plants. These air conditioning units carry assessments from a few tons to 500 tons. These are often used to control electric motors, lighting, compressors, elevators, pumps and cranes to swimming pools, vending machines and food processing. Basic construction A contactor has three components. Contacts are the current part that carries the contactor. This includes power contacts, auxiliary contacts, and contact springs. The electromagnet (or coil) provides the driving force to close the contacts. The casing is a frame that houses the contact and the electromagnet. The cases are made of insulating materials such as Bakelite, Nylon 6 and thermo-hardening plastics to protect and isolate contacts and provide some protection against personnel touching contacts. Open frame contactors can have an additional case to protect against dust, oil, explosion hazards and weather. A basic contactor will have a coil input (which can be operated by an AC or DC power supply depending on the contactor's design). The coil can be excited at the same voltage as an engine that the contactor controls, or it can be controlled separately with a lower coil voltage more suitable for control by programmable controllers and low voltage pilot devices. DP contactors are generally easily interchangeable: if you use another manufacturer it is very likely that you can use ours without any problems. If you prefer, call us with the manufacturer's part number and we can go through it for you. when you specify dp contactors consider the following there is a wide range of contactors from 15 to 360 amps; single-, two- and three-poly devices; the sealed housing limits contaminants and reduces or eliminates noise; compact and efficient design with low VA coil and straight wiring; goes low low evaluations; universal mounting plate that eliminates the change of hole models when replacing devices; a variety of terminal styles to meet specific application requirements; snap-on accessories that do not require tools; simple coil change; convenient non-position-sensitive mounting advantages; hassle-free installation and maintenance; devices supplied with pressure plates and (standard) quick-connect terminals; and the availability of mechanical snap interlocking, which allows the interlocking of two contactors for inversion or two-speed applications. Still not sure which contact to order? Our technical support would be happy to help you decide and may start asking the following questions: How many fully charged amplifiers are you carrying and what current/amplifier rating do you need? How many poles are needed? What is the voltage of the coil? Send an email or call our technical support at (847) 658-8130 and they would be happy to help you determine which DP contactor is right for your application. Application.

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