

Drive Motor for Forklift

Forklift Drive Motor - MCC's or also known as Motor Control Centers are an assembly of one or more sections which contain a common power bus. These have been used in the automobile trade since the 1950's, since they were used many electric motors. Now, they are used in different commercial and industrial applications.

Motor control centers are a modern method in factory assembly for some motor starters. This equipment can comprise variable frequency drives, programmable controllers and metering. The MCC's are usually seen in the electrical service entrance for a building. Motor control centers frequently are utilized for low voltage, 3-phase alternating current motors that range from 230 V to 600V. Medium voltage motor control centers are made for big motors that vary from 2300V to 15000 V. These units make use of vacuum contractors for switching with separate compartments to be able to achieve power control and switching.

In areas where extremely corrosive or dusty methods are occurring, the motor control center can be installed in a separate air-conditioned room. Typically the MCC would be situated on the factory floor next to the machines it is controlling.

For plug-in mounting of individual motor controls, A motor control center has one or more vertical metal cabinet sections with power bus. So as to complete testing or maintenance, extremely big controllers could be bolted into place, whereas smaller controllers could be unplugged from the cabinet. Each motor controller has a contractor or a solid state motor controller, overload relays to be able to protect the motor, circuit breaker or fuses so as to provide short-circuit protection and a disconnecting switch in order to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals positioned within the controller. Motor control centers provide wire ways for field control and power cables.

In a motor control center, each and every motor controller can be specified with many various alternatives. Some of the choices include: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and numerous kinds of solid-state and bi-metal overload protection relays. They even have different classes of types of power fuses and circuit breakers.

There are numerous choices regarding delivery of MCC's to the client. They can be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller together with internal control. Conversely, they can be supplied set for the customer to connect all field wiring.

Motor control centers normally sit on the floor and must have a fire-resistance rating. Fire stops could be needed for cables which go through fire-rated walls and floors.