

Drive Motor for Forklifts

Forklift Drive Motors - Motor Control Centers or MCC's, are an assembly of one enclosed section or more, which have a common power bus mostly consisting of motor control units. They have been used since the 1950's by the auto trade, as they utilized a lot of electric motors. Nowadays, they are utilized in a variety of commercial and industrial applications.

Within factory assembly for motor starter; motor control centers are rather common method. The MCC's include variable frequency drives, programmable controllers and metering. The MCC's are commonly used in the electrical service entrance for a building. Motor control centers often are utilized for low voltage, 3-phase alternating current motors which range from 230 volts to 600 volts. Medium voltage motor control centers are made for big motors that range from 2300V to 15000 V. These units make use of vacuum contractors for switching with separate compartments in order to achieve power control and switching.

Within factory locations and area which have dusty or corrosive processing, the MCC can be installed in climate controlled separated locations. Usually the MCC will be situated on the factory floor adjacent to the equipment it is controlling.

A MCC has one or more vertical metal cabinet sections with power bus and provisions for plug-in mounting of individual motor controllers. Smaller controllers can be unplugged from the cabinet in order to complete testing or maintenance, while very large controllers could be bolted in place. Each motor controller consists of a contractor or a solid state motor controller, overload relays In order to protect the motor, circuit breaker or fuses in order to supply short-circuit protection and a disconnecting switch to be able to isolate the motor circuit. Separate connectors enable 3-phase power in order to enter the controller. The motor is wired to terminals positioned in the controller. Motor control centers offer wire ways for power cables and field control.

Every motor controller in a motor control center could be specified with different options. These alternatives consist of: extra control terminal blocks, control switches, pilot lamps, separate control transformers, as well as many types of solid-state and bi-metal overload protection relays. They even comprise various classes of kinds of circuit breakers and power fuses.

Concerning the delivery of motor control centers, there are several options for the client. These can be delivered as an engineered assembly with a programmable controller together with internal control or with interlocking wiring to a central control terminal panel board. On the other hand, they could be provided set for the customer to connect all field wiring.

Motor control centers usually sit on the floor and should have a fire-resistance rating. Fire stops could be necessary for cables that penetrate fire-rated floors and walls.