

Drive Motor for Forklifts

Drive Motor for Forklifts - Motor Control Centers or MCC's, are an assembly of one or more enclosed sections, which have a common power bus mainly comprising motor control units. They have been used since the 1950's by the vehicle trade, as they utilized a large number of electric motors. These days, they are used in other industrial and commercial applications.

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

In locations where really corrosive or dusty methods are occurring, the motor control center may be established in a separate air-conditioned room. Usually the MCC will be positioned on the factory floor near 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 may be unplugged from the cabinet in order to complete maintenance or testing, while really big controllers could be bolted in place. Each and every motor controller consists of a solid state motor controller or a contractor, overload relays to be able to protect the motor, fuses or circuit breakers 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 situated in the controller. Motor control centers provide wire ways for power cables and field control.

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

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

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