

Drive Motor for Forklifts

Forklift Drive Motor - Motor Control Centers or likewise called MCC's, are an assembly of one enclosed section or more, that have a common power bus mainly comprising motor control units. They have been used ever since the 1950's by the automobile trade, for the reason that they used a large number of electric motors. Today, they are utilized in a variety of industrial and commercial applications.

In factory assembly for motor starter; motor control centers are fairly common method. The MCC's comprise variable frequency drives, programmable controllers and metering. The MCC's are usually found in the electrical service entrance for a building. Motor control centers frequently are used 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 utilize vacuum contractors for switching with separate compartments to be able to attain power switching and control.

In factory area and locations that have dusty or corrosive processing, the MCC could be installed in climate controlled separated locations. Normally the MCC would be situated on the factory floor close to the machinery 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. To complete testing or maintenance, very big controllers can be bolted into place, while smaller controllers may be unplugged from the cabinet. 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 to supply short-circuit protection as well as a disconnecting switch to be able to isolate the motor circuit. Separate connectors enable 3-phase power so as to enter the controller. The motor is wired to terminals positioned within the controller. Motor control centers provide wire ways for power cables and field control.

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

There are numerous choices regarding delivery of MCC's to the client. They could 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 ready 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 may be needed for cables that penetrate fire-rated floors and walls.