

Forklift Drive Motor

Forklift Drive Motor - MCC's or Motor Control Centers are an assembly of one section or more which have a common power bus. These have been used in the auto business since the 1950's, as they were made use of a lot of electric motors. Today, they are utilized in other commercial and industrial applications.

In factory assembly for motor starter; motor control centers are quite common method. The MCC's include variable frequency drives, programmable controllers and metering. The MCC's are normally found in the electrical service entrance for a building. Motor control centers commonly are used for low voltage, 3-phase alternating current motors that vary from 230 V to 600V. Medium voltage motor control centers are made for large 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 switching and control.

In areas where extremely corrosive or dusty processes are happening, the motor control center may be established in a separate air-conditioned room. Usually the MCC would be located 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 can be bolted in place. Each and every motor controller consists of a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers to supply 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 situated in the controller. Motor control centers supply wire ways for field control and power cables.

Each motor controller in a motor control center could be specified with different alternatives. These choices include: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and numerous types of bi-metal and solid-state overload protection relays. They even have different classes of types of circuit breakers and power fuses.

There are several options 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 could be supplied ready for the client to connect all field wiring.

MCC's commonly sit on floors that are required to have a fire-resistance rating. Fire stops could be needed for cables which go through fire-rated floors and walls.