

Forklift Drive Motor

Drive Motor for Forklifts - Motor Control Centers or also called MCC's, are an assembly of one enclosed section or more, that have a common power bus principally consisting of motor control units. They have been used since the 1950's by the auto trade, because they used many electric motors. These days, they are utilized in various industrial and commercial applications.

Motor control centers are a modern method in factory assembly for several motor starters. This machinery could consist of programmable controllers, metering and variable frequency drives. The MCC's are normally seen 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 V to 600V. Medium voltage motor control centers are designed for big motors that range from 2300 volts to 15000 volts. These units utilize vacuum contractors for switching with separate compartments in order to accomplish power control and switching.

In factory locations and area that have dusty or corrosive processing, the MCC could be installed in climate controlled separated locations. Normally the MCC will be situated on the factory floor close to the equipment it is controlling.

A MCC has one or more vertical metallic 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 very large controllers can be bolted in place. Every motor controller has a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers so as to supply short-circuit protection and a disconnecting switch so as to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals located inside the controller. Motor control centers offer wire ways for field control and power cables.

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

There are various choices concerning delivery of MCC's to the customer. 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 could be supplied set for the customer to connect all field wiring.

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