

Forklift Drive Motor

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

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

In areas where extremely dusty or corrosive processes are happening, the motor control center can be installed in a separate air-conditioned room. Normally the MCC will be positioned on the factory floor close to the machinery 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 to be able to complete testing or maintenance, whereas extremely big controllers could be bolted in place. Each motor controller consists of a solid state motor controller or a contractor, overload relays In order to protect the motor, fuses or circuit breakers to be able to provide short-circuit protection and a disconnecting switch to be able to isolate the motor circuit. Separate connectors allow 3-phase power to enter the controller. The motor is wired to terminals located within the controller. Motor control centers offer wire ways for power cables and field control.

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

Regarding the delivery of motor control centers, there are several alternatives 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 can be supplied set for the customer to connect all field wiring.

MCC's usually sit on floors that should have a fire-resistance rating. Fire stops may be needed for cables which go through fire-rated walls and floors.