

Forklift Drive Motor

Forklift Drive Motor - MCC's or otherwise known as Motor Control Centers are an assembly of one or more sections which include a common power bus. These have been utilized in the automobile business since the 1950's, as they were utilized lots of electric motors. Now, they are used in other commercial and industrial applications.

Motor control centers are a modern practice in factory assembly for several motor starters. This particular equipment can include metering, variable frequency drives and programmable controllers. The MCC's are commonly used in the electrical service entrance for a building. Motor control centers often 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 large motors which vary from 2300V to 15000 V. These units utilize vacuum contractors for switching with separate compartments so as to achieve power control and switching.

In places where very dusty or corrosive processes are happening, the motor control center can be established in a separate air-conditioned room. Typically the MCC will be located on the factory floor adjacent 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 really large controllers could 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 provide short-circuit protection as well as a disconnecting switch so as to isolate the motor circuit. Separate connectors allow 3-phase power to enter the controller. The motor is wired to terminals situated within the controller. Motor control centers supply wire ways for field control and power cables.

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

Concerning the delivery of motor control centers, there are a lot of choices for the consumer. 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. Conversely, they can be provided set 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 which penetrate fire-rated walls and floors.