

Forklift Drive Motors

Forklift Drive Motor - Motor Control Centers or likewise called MCC's, are an assembly of one or more enclosed sections, that have a common power bus principally consisting of motor control units. They have been used since the 1950's by the auto trade, for the reason that they made use of a lot of electric motors. These days, they are used in different commercial and industrial applications.

Motor control centers are a modern technique in factory assembly for several motor starters. This equipment can comprise metering, variable frequency drives and programmable controllers. The MCC's are normally utilized in the electrical service entrance for a building. Motor control centers commonly are utilized for low voltage, 3-phase alternating current motors which vary from 230 V to 600V. Medium voltage motor control centers are designed for big motors that vary from 2300 volts to 15000 volts. These units utilize vacuum contractors for switching with separate compartments in order to attain power control and switching.

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

In a motor control center, each motor controller can be specified with numerous various alternatives. Some of the choices include: 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 types of power fuses and circuit breakers.

Concerning the delivery of motor control centers, there are lots of options 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 supplied prepared for the customer to connect all field wiring.

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