

Drive Motor for Forklifts

Forklift Drive Motor - Motor Control Centers or MCC's, are an assembly of one enclosed section or more, which have a common power bus mostly containing motor control units. They have been used since the 1950's by the automobile business, since they made use of many electric motors. Today, they are used in different commercial and industrial applications.

Within factory assembly for motor starter; motor control centers are somewhat common method. The MCC's consist of metering, variable frequency drives and programmable controllers. The MCC's are usually used in the electrical service entrance for a building. Motor control centers commonly are utilized for low voltage, 3-phase alternating current motors that range from 230 volts to 600 volts. Medium voltage motor control centers are designed for large motors which range from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments so as to attain power control and switching.

In factory area and locations which have dusty or corrosive processing, the MCC can be installed in climate controlled separated locations. Typically the MCC will be situated on the factory floor next to the machinery it is controlling.

For plug-in mounting of individual motor controls, A motor control center has one or more vertical metal cabinet sections with power bus. In order to complete testing or maintenance, really big controllers can be bolted into place, while smaller controllers can be unplugged from the cabinet. Each motor controller consists of a contractor or a solid state motor controller, overload relays so as to protect the motor, fuses or circuit breakers to supply short-circuit protection as well as 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 positioned within the controller. Motor control centers supply wire ways for power cables and field control.

In a motor control center, every motor controller could be specified with lots of various choices. Some of the alternatives 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 even comprise different classes of kinds of circuit breakers and power fuses.

Regarding the delivery of motor control centers, there are various 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. Conversely, they could be supplied set for the customer to connect all field wiring.

Motor control centers normally sit on the floor and should have a fire-resistance rating. Fire stops may be needed for cables which go through fire-rated floors and walls.