

Drive Motor for Forklift

Forklift Drive Motor - Motor Control Centers or also called MCC's, are an assembly of one enclosed section or more, which have a common power bus principally containing motor control units. They have been used ever since the 1950's by the auto business, because they made use of lots of electric motors. Nowadays, they are utilized in different industrial and commercial applications.

Inside factory assembly for motor starter; motor control centers are rather common practice. The MCC's consist of programmable controllers, metering and variable frequency drives. The MCC's are commonly seen 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 V to 600V. Medium voltage motor control centers are intended for large motors which range from 2300 volts to 15000 volts. These units utilize vacuum contractors for switching with separate compartments to be able to accomplish power switching and control.

Inside factory area and locations that have dusty or corrosive processing, the MCC could be installed in climate controlled separated locations. Normally the MCC would be positioned on the factory floor adjacent 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 could be unplugged from the cabinet to complete testing or maintenance, while extremely large 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 in order to supply short-circuit protection as well as a disconnecting switch in order 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 power cables and field control.

Every motor controller inside a motor control center could be specified with a range of options. These choices include: pilot lamps, separate control transformers, extra control terminal blocks, control switches, as well as many types of bi-metal and solid-state overload protection relays. They likewise comprise various classes of kinds of power fuses and circuit breakers.

There are various alternatives regarding delivery of MCC's to the client. 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 can be supplied ready 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 required for cables which penetrate fire-rated floors and walls.