

Drive Motor for Forklifts

Drive Motor for Forklift - MCC's or otherwise known as Motor Control Centers are an assembly of one or more sections that contain a common power bus. These have been utilized in the auto industry ever since the 1950's, for the reason that they were used a large number of electric motors. Now, they are used in various industrial and commercial applications.

Within factory assembly for motor starter; motor control centers are somewhat common practice. The MCC's consist of variable frequency drives, programmable controllers and metering. The MCC's are commonly found in the electrical service entrance for a building. Motor control centers frequently 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 vary from 2300 volts to 15000 volts. These units use vacuum contractors for switching with separate compartments so as to accomplish power switching and control.

Inside factory locations and area which have corrosive or dusty processing, the MCC can be installed in climate controlled separated locations. Normally the MCC will be situated on the factory floor adjacent to the equipment 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 maintenance or testing, while really big controllers can be bolted in place. Each motor controller has a contractor or a solid state motor controller, overload relays In order to protect the motor, circuit breaker or fuses to provide short-circuit protection and a disconnecting switch in order to isolate the motor circuit. Separate connectors enable 3-phase power in order to enter the controller. The motor is wired to terminals located inside the controller. Motor control centers provide wire ways for power cables and field control.

Each motor controller within a motor control center can be specified with several alternatives. These options consist of: separate control transformers, extra control terminal blocks, control switches, pilot lamps, and various kinds of solid-state and bi-metal overload protection relays. They also comprise various classes of types of power fuses and circuit breakers.

There are several options 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. On the other hand, they could be provided prepared for the client to connect all field wiring.

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