

Forklift Drive Motors

Drive Motor for Forklift - Motor Control Centers or otherwise called MCC's, are an assembly of one enclosed section or more, which have a common power bus mainly comprising motor control units. They have been utilized since the 1950's by the auto trade, as they utilized lots of electric motors. Now, they are utilized in various commercial and industrial applications.

In factory assembly for motor starter; motor control centers are quite common technique. The MCC's comprise metering, variable frequency drives and programmable controllers. The MCC's are usually found in the electrical service entrance for a building. Motor control centers often 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 large motors which range from 2300V to 15000 V. These units use vacuum contractors for switching with separate compartments to be able to accomplish power control and switching.

Inside factory locations and area which have dusty or corrosive processing, the MCC could be installed in climate controlled separated locations. Usually the MCC will be located on the factory floor next to the machines 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 complete testing or maintenance, whereas extremely big controllers can be bolted in place. Each and every motor controller has a contractor or a solid state motor controller, overload relays In order to protect the motor, fuses or circuit breakers to be able to provide short-circuit protection and a disconnecting switch in order to isolate the motor circuit. Separate connectors enable 3-phase power to enter the controller. The motor is wired to terminals located in the controller. Motor control centers offer wire ways for power cables and field control.

Within a motor control center, each and every motor controller could be specified with lots of different options. Some of the options comprise: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and various kinds of solid-state and bi-metal overload protection relays. They also have different classes of kinds of circuit breakers and power fuses.

Concerning 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 can be supplied prepared for the client to connect all field wiring.

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