

Drive Motor for Forklift

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

Within factory assembly for motor starter; motor control centers are quite common practice. The MCC's consist of variable frequency drives, programmable controllers and metering. The MCC's are usually found in the electrical service entrance for a building. Motor control centers frequently are used for low voltage, 3-phase alternating current motors which vary from 230 volts to 600 volts. Medium voltage motor control centers are made for big motors that range from 2300 volts to 15000 volts. These units use vacuum contractors for switching with separate compartments in order to accomplish power switching and control.

In factory locations and area which have dusty or corrosive processing, the MCC could be installed in climate controlled separated locations. Normally the MCC will be situated on the factory floor close to the machines 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 maintenance or testing, whereas extremely large controllers can be bolted in place. Each and every motor controller has a solid state motor controller or a contractor, overload relays to protect the motor, circuit breaker or fuses to provide short-circuit protection and 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 situated within the controller. Motor control centers provide wire ways for field control and power cables.

Inside a motor control center, every motor controller could be specified with many different choices. Some of the alternatives include: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and various kinds of bi-metal and solid-state overload protection relays. They likewise comprise various classes of kinds of circuit breakers and power fuses.

There are many 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 provided set for the customer to connect all field wiring.

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