

Forklift Drive Motor

Drive Motor for Forklift - Motor Control Centers or MCC's, are an assembly of one or more enclosed sections, which have a common power bus principally consisting of motor control units. They have been used ever since the 1950's by the vehicle industry, in view of the fact that they utilized many electric motors. Now, they are used in different industrial and commercial applications.

Motor control centers are a modern technique in factory assembly for some motor starters. This machine can comprise variable frequency drives, programmable controllers and metering. The MCC's are usually used in the electrical service entrance for a building. Motor control centers commonly are used for low voltage, 3-phase alternating current motors which vary from 230 V to 600V. Medium voltage motor control centers are intended for large motors which vary from 2300 volts to 15000 volts. These units use vacuum contractors for switching with separate compartments to be able to accomplish power switching and control.

Inside factory area and locations that have corrosive or dusty processing, the MCC could be installed in climate controlled separated locations. Typically the MCC would be located 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 so as to complete maintenance or testing, whereas very big controllers could be bolted in place. Each motor controller consists of a solid state motor controller or a contractor, overload relays to protect the motor, circuit breaker or fuses to be able to supply short-circuit protection and a disconnecting switch so as 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 supply wire ways for field control and power cables.

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

Regarding the delivery of motor control centers, there are numerous choices for the client. These can be delivered as an engineered assembly with a programmable controller along with internal control or with interlocking wiring to a central control terminal panel board. Conversely, they could be supplied ready for the client to connect all field wiring.

Motor control centers usually sit on the floor and should have a fire-resistance rating. Fire stops may be necessary for cables that penetrate fire-rated walls and floors.