

Drive Motor Forklifts

Forklift Drive Motor - MCC's or Motor Control Centers are an assembly of one or more sections which contain a common power bus. These have been utilized in the vehicle industry ever since the 1950's, in view of the fact that they were used many electric motors. Today, they are utilized in different commercial and industrial applications.

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

In factory area and locations that have dusty or corrosive processing, the MCC could be installed in climate controlled separated locations. Usually the MCC will be positioned on the factory floor adjacent to the equipment 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 could be unplugged from the cabinet in order to complete testing or maintenance, whereas very large controllers could be bolted in place. Each motor controller has a solid state motor controller or a contractor, overload relays so as to protect the motor, circuit breaker or fuses to provide short-circuit protection and a disconnecting switch so as to isolate the motor circuit. Separate connectors allow 3-phase power to be able to enter the controller. The motor is wired to terminals located inside the controller. Motor control centers supply wire ways for field control and power cables.

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

Regarding the delivery of motor control centers, there are many choices for the customer. 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. On the other hand, they could be provided ready for the customer to connect all field wiring.

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