

Drive Motor for Forklifts

Forklift Drive Motor - Motor Control Centers or MCC's, are an assembly of one enclosed section or more, which have a common power bus mainly consisting of motor control units. They have been utilized ever since the 1950's by the automobile business, since they made use of a large number of electric motors. Today, they are used in a variety of commercial and industrial applications.

Inside factory assembly for motor starter; motor control centers are somewhat common practice. The MCC's comprise variable frequency drives, programmable controllers and metering. The MCC's are usually seen in the electrical service entrance for a building. Motor control centers commonly are utilized for low voltage, 3-phase alternating current motors that vary from 230 V to 600V. Medium voltage motor control centers are intended for big motors that range from 2300 volts to 15000 volts. These units utilize 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 can be installed in climate controlled separated locations. Usually the MCC would be positioned on the factory floor near the machinery it is controlling.

For plug-in mounting of individual motor controls, A motor control center has one or more vertical metal cabinet sections with power bus. In order to complete testing or maintenance, extremely large controllers can be bolted into place, while smaller controllers could be unplugged from the cabinet. Each and every motor controller has a contractor or a solid state motor controller, overload relays to protect the motor, fuses or circuit breakers so as to supply short-circuit protection as well as a disconnecting switch to be able to isolate the motor circuit. Separate connectors allow 3-phase power to be able to enter the controller. The motor is wired to terminals positioned in the controller. Motor control centers supply wire ways for power cables and field control.

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

There are various options concerning delivery of MCC's to the customer. They could be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller along with internal control. On the other hand, they can be supplied set 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 could be needed for cables which penetrate fire-rated walls and floors.