

Forklift Drive Motor

Forklift Drive Motor - MCC's or likewise known as Motor Control Centers are an assembly of one or more sections which include a common power bus. These have been used in the vehicle industry ever since the 1950's, since they were made use of a lot of electric motors. Nowadays, they are used in a variety of industrial and commercial applications.

Inside factory assembly for motor starter; motor control centers are somewhat common practice. The MCC's consist of variable frequency drives, programmable controllers and metering. The MCC's are normally used in the electrical service entrance for a building. Motor control centers commonly are utilized for low voltage, 3-phase alternating current motors that range from 230 volts to 600 volts. Medium voltage motor control centers are designed for large motors that range from 2300 volts to 15000 volts. These units utilize vacuum contractors for switching with separate compartments in order to attain power switching and control.

In factory locations and area which have dusty or corrosive processing, the MCC can be installed in climate controlled separated locations. Normally the MCC would be located on the factory floor close to the equipment 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 maintenance or testing, while really big controllers could be bolted in place. Every motor controller has a solid state motor controller or a contractor, overload relays to protect the motor, fuses or circuit breakers to provide short-circuit protection and a disconnecting switch in order to isolate the motor circuit. Separate connectors allow 3-phase power to enter the controller. The motor is wired to terminals situated inside the controller. Motor control centers offer wire ways for power cables and field control.

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

There are numerous choices 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. Conversely, they can be provided ready for the customer to connect all field wiring.

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