

Drive Motor for Forklifts

Forklift Drive Motors - MCC's or Motor Control Centers are an assembly of one or more sections which include a common power bus. These have been used in the automobile business since the 1950's, since they were utilized many electric motors. Today, they are used in other commercial and industrial applications.

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

In areas where very dusty or corrosive methods are happening, the motor control center may be established in a separate air-conditioned room. Normally the MCC would be situated on the factory floor next to the equipment 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. So as to complete maintenance or testing, really large controllers could be bolted into place, whereas smaller controllers can be unplugged from the cabinet. Every motor controller has a solid state motor controller or a contractor, overload relays In order to protect the motor, circuit breaker or fuses to be able to provide short-circuit protection and a disconnecting switch to be able to isolate the motor circuit. Separate connectors enable 3-phase power in order to enter the controller. The motor is wired to terminals positioned 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 a lot of various choices. Some of the options comprise: pilot lamps, separate control transformers, extra control terminal blocks, control switches, and many types of solid-state and bi-metal overload protection relays. They also have different classes of kinds of circuit breakers and power fuses.

There are numerous 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. On the other hand, they could be supplied set for the customer to connect all field wiring.

Motor control centers typically sit on the floor and must have a fire-resistance rating. Fire stops can be needed for cables which go through fire-rated floors and walls.