

Drive Motor for Forklifts

Forklift Drive Motor - Motor Control Centers or otherwise called MCC's, are an assembly of one or more enclosed sections, which have a common power bus mainly comprising motor control units. They have been utilized ever since the 1950's by the auto trade, for the reason that they utilized lots of electric motors. Nowadays, they are used in different industrial and commercial applications.

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

In areas where very corrosive or dusty processes are happening, the motor control center can be installed in a separate air-conditioned room. Usually the MCC would be situated on the factory floor next to the machines 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 may be unplugged from the cabinet to be able to complete testing or maintenance, while extremely big controllers could be bolted in place. Each motor controller has a contractor or a solid state motor controller, overload relays to protect the motor, fuses or circuit breakers 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 in order to enter the controller. The motor is wired to terminals situated inside the controller. Motor control centers provide wire ways for field control and power cables.

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

Regarding the delivery of motor control centers, there are lots of options for the client. These could 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 set for the customer to connect all field wiring.

MCC's usually sit on floors that must have a fire-resistance rating. Fire stops may be required for cables that penetrate fire-rated floors and walls.