Forklift Drive Motor

Drive Motor for Forklift - Motor Control Centers or also called MCC's, are an assembly of one or more enclosed sections, that have a common power bus mainly comprising motor control units. They have been used ever since the 1950's by the automobile business, since they used a large number of electric motors. Today, they are used in other commercial and industrial applications.

Inside factory assembly for motor starter; motor control centers are quite common practice. The MCC's include programmable controllers, metering and variable frequency drives. 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 vary from 2300V to 15000 V. These units utilize vacuum contractors for switching with separate compartments to be able to accomplish power control and switching.

In locations where very corrosive or dusty methods are occurring, the motor control center may be established in a separate air-conditioned room. Normally the MCC will be located on the factory floor near 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. To complete testing or maintenance, very 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 be able 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 so as to enter the controller. The motor is wired to terminals situated in the controller. Motor control centers offer wire ways for field control and power cables.

Each and every motor controller inside a motor control center can be specified with several alternatives. These options comprise: control switches, pilot lamps, separate control transformers, extra control terminal blocks, as well as numerous types of bi-metal and solid-state overload protection relays. They even comprise various classes of kinds of circuit breakers and power fuses.

There are numerous alternatives regarding delivery of MCC's to the customer. They can 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 supplied prepared for the customer to connect all field wiring.

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