

DATCO Electric Distribution Cabinets

DATCO | Distribution And Transfer Cabinets' Occupations

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BADRY DATCO***Distribution And Transfer Cabinets' Occupations*****ABOUT US****Dear customer!**

Dear Customers, **DATCO** is one Dept. of BADRY GROUP Co., operates in the field of Electric Distribution, Transit, Transfer, Switching Cabinets assembly, fabricator and manufacturing with international **ODM / DFMA** Strategy So far, **DATCO** is one of the leading mechanical and electrical panel builder contractors in Egypt.

DATCO is a professional **ODM & DFM / DFA** for Electric Cabinets' contractor in the field of:

- Switchboard Cabinets
- Distribution Cabinets
- Transfer Cabinets
- Transit Cabinets
- MCC & Control Cabinets
- Lighting Cabinets
- Pumping Cabinets
- Industrial Equipment's Cabinets

Over many years of operation and development, staff management, engineers, technicians and workers have accumulated experience and creativity in innovation, technical innovation and access to new scientific achievements.

Establishing our role with big projects in Egypt. On the way of development and integration, during the past time, we have carried out many large and small projects with investment capital at home and abroad.

We are not only the contractor but also the building, managing, using and trading buildings, so we understand the importance of each electrical & mechanical system.

For civil or industrial works, the electromechanical system is the blood vessel, the heart that maintains the work for the work is always stable and safe, contributing significantly to the successful development of the investor. and partners use. From that awareness,

Our company has been training management team, technical expertise and experience, building and constantly improving, applying the quality management process in the management. Operating and executing to strict control, quality assurance and best schedule for the works.

We consider the stable operation, efficiency of each project and the success of customers is the success of our company. We look forward to working with you and receiving your enthusiastic cooperation in the future.

Finally wish you full of health, success and happiness. Sincerely thanks and best regards!

BADRY DATCO

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PRODUCTS

- SWITCHBOARD CABINETS

- MSB Cabinets
- Electric Distribution Cabinets
- Electric Transfer Cabinets
- Electric Transit Cabinets
- PFC & Capacitor Bank Cabinets
- Complement Controller Cabinets
- Control Cabinets
- Lighting Cabinets
- Motor Starter Cabinets
- ATS Switch Cabinets
- MCC Cabinets
- Waste Control Cabinets
- Fire Pumps Controllers Cabinets

SERVICES

**Installation / Repairs – Of
Electric Cabinets
POWER & LIGHTING**



**Installation / Repairs – Of
Transfer & Switching Cabinets**



**Installation / Repairs – Of
MCC & Control Cabinets**



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BADRY DATCO***Distribution And Transfer Cabinets' Occupations*****INSTALLATION PROCESS OF ELECTRICAL CABINETS TO ENSURE SAFETY**

Industrial electrical switchboards play an important role in the operation of electrical systems or plant systems. The design and installation of cabinets of quality and safety standards contribute to the safety and well-being of electrical systems and machinery..



The steps of designing and installing industrial electric cabinets include the following stages:

1. Make a map of the block of the electrical part to be installed (if there is already a circuit diagram)
2. Examine the market of materials to buy (look for quality, and overload, if you need to choose between two prices, choose which one is higher.) When the materials required by the diagram. Use the actual size of these materials to see what positions are placed on the most appropriate table
3. The auxiliary materials in the installation in the electrical cabinet. (such as the serial number attached to the wire, the iron rod used for magnetic starters, relays, timers, electrical connectors, etc.).
4. Put the units on the board (10mm thick board, or panel or iron board - place the board in the horizontal position when assembled)
5. After installation, test the electrical insulation of the panel with the units on the board (if the panel is iron) with a grid front with a 300watts circular lamp, see the operation of Are the components in line with the design process? Fix the wrong place, if any.

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6. Try again with small loads. Then assemble the table of parts into the cabinet.
7. Make the cabinet frame to put the cabinet in place, pull the power cord from the engine into the cabinet, pull the grid.
8. Retry the ground wire, electrical safety (earth wire of cabinet door and cabinet body must be copper, flat wire, knit mesh, soft, hard to break)

Note:

The block diagram is related to the layout of the equipment in the cabinet, divided into three parts: power circuit, control circuit and circuit automatically.

On the safe side, a switchboard should be arranged in such a way that it is suitable for directing electricity into and out of the equipment used (three-phase power and load motors, location of power grid, location of workers using, operating machine to form a reasonable and safe installation location.

The mechanical part of the electrical cabinet sometimes needs to be watertight if it is operating in an environment where there is a lot of humidity in the cabinet: at least one main unit and one switch,

The aptomat appears outside the cabinet. The reason is to completely isolate the grid line into the cabinet as needed. The cutting force can be selected as equivalent to the sum of the sub-loadings up to three times larger.

There is also a 220 volt electrical outlet in the industrial cabinet, so that when maintenance of the cabinet, light for use, easy to do. This voltage position is arranged where the wire mesh approach (usually placed in the upper left corner, sometimes right). One button off the emergency engine is needed. The location of the materials, if many, can be divided into separate areas for each function.

Top down downstream devices, such as large trains on a horizontal line, the inverters (if any, are usually located near the associated KDTs. Small KWTs on a horizontal line, intermediate relays, and timer.

The rows of cassettes are plastic troughs of control wires. Dominoes are usually placed in the bottom row or placed along the inside of the cabinet.

Underneath the industrial electrical cabinet is usually a circular hole with three wires and a neutral wire, one for the wires running the motors, one for wire bundles to the control box (if any). wire to which part, wire rope sequence for that part immediately, usually pre-wire rope pre-wire (small wire), after the new wiring harness (wire), if possible to use electrostatic always The rope was finished. Industrial cabinet installation if used, should be designed to balance, firmly put in the cabinet, must have good welded contacts with earth wire to the cabinet.

Check the grounding wire of the industrial electrical cabinet by using a 300watt hearth light bulb: 1 input 220V power phase grid, the other end to touch the cabinet, the light bulb must be new electrical safety cabinets and can use. The first time it is necessary to test for the relevant engine running idle to determine the correct rotation.

Try the function buttons for about 10 minutes. Test the cruise switches and its effect. Then load the truck.

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