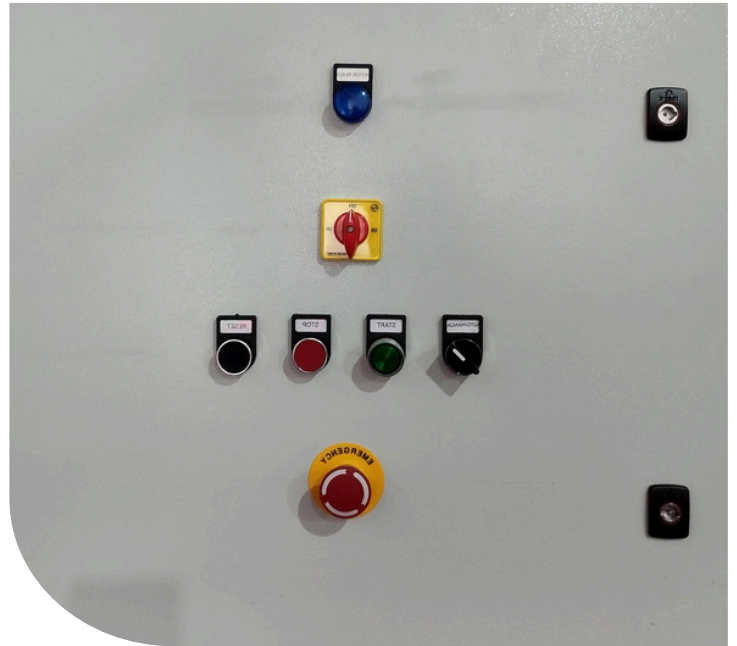


CONTROL PANEL-VFD

A VFD panel (Variable Frequency Drive panel) is an electrical enclosure that houses a variable frequency drive and its associated components. It is used to control the speed, torque, and direction of an electric motor by varying the input voltage and frequency.



Applications

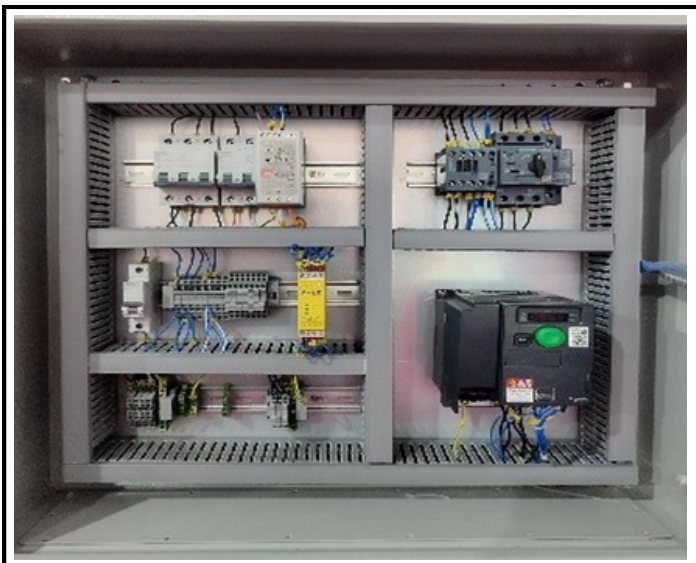
- Industrial Automation: Pumps, Conveyors, Fans, Compressors, and Mixers
- HVAC Systems: Fans, Chillers, and Blowers
- Water and Wastewater Treatment: Pump speed regulation based on demand
- Cranes and Hoists: Smooth acceleration and deceleration.
- Agriculture: Irrigation Systems and Grain Elevators

Design Considerations

- Voltage Rating: Compatible with motor and supply voltage (e.g., 400V, 480V)
- Power Rating: As per the motor's kW/HP requirements
- Environmental Protection: IP or NEMA rating based on installation location
- Cooling Requirements: Adequate ventilation or air conditioning if needed
- Standards Compliance: Adhere to relevant codes such as IEC, UL, NEC, CE

Standard Features:

- Standard: CE/UL compatible cabinet with IP 65 protection
- Motor Speed Control: Precise adjustment of motor speed for process control
- Energy Efficiency: Reduces power consumption by matching motor speed with load requirements
- Safety system: - Dual channel Safety relay with Cat 3 safety system for Emergency stop
- Soft Start/Stop: Limits inrush current and mechanical stress on the motor
- Fault Diagnostics: Displays error codes for quick troubleshooting
- Communication Capabilities: Often integrated with PLC or SCADA systems using protocols like Modbus, Profibus, Profinet, Ethernet/IP



Advantages

- Increased equipment lifespan due to soft start/stop
- Improved process control
- Lower operating costs due to energy savings
- Reduced mechanical and electrical stresses

Product can be Customized as per Requirement

Get In Touch:

ECKPRO

📍 4th Floor, Ghule Square, DSK Ranwara Rd, opp. Kia Service, Bavdhan, Pune.

✉ contact@eckpro.com

☎ +91 77589 83800