

## PowerPlex

Pump Motor Starters and VFD Drives for Critical Service



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Earthsafe Pump Motor Starters and VFD Drives are designed specifically for operation in critical facility environments. The units are applied for Earthsafe duplex pump and filtration systems, and are also used for standard petroleum submersible pumps such as Red Jacket and FE Petro.

Pump Control Motor Starters and Drives are an important aspect of critical facility fuel systems. Here is a good way to classify pump control motor starter configurations:

Class A: Motor starter has (a) code compliant motor protection, (b) a local power disconnect, (c) current sensor or other means of functional feedback, (d) manual start from line power – independent of control power. Earthsafe standard pump motor starters are Class A.

Class B: Motor starter has (a) code compliant motor protection, and (b) a local power disconnect. Many standard industrial motor starters are Class B. Earthsafe economy pump motor starters are Class B.

### Earthsafe VFD Drives

Earthsafe VFD Drives are designed to soft start - stop and maintain a constant line pressure for feeding multiple day tanks or boilers. The important advantages are:

- (a) Constant pressure is maintained at day tank or boiler inlets, whether a single or multiple units are active at the same time.
- (b) Fluid hammer problems are avoided in longer piping runs by the soft start – stop working in coordination with end of line valve control.

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EMERGENCY POWER FUEL SYSTEMS

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## C231 Pump Motor Starter / Disconnect

Class A Critical Service, Single Pump

- Operates in Manual (Local) or Auto (Remote) Mode
- In Manual Mode Pump Starts on Line Voltage Alone
- Output Contacts for (a) Not-in-Auto Mode, (b) Current Sensor, (c) Overload Trip



## C232 Pump Motor Starter / Disconnect

Class A Critical Service, Dual Pump

- 6 Pole Disconnect for 2 Power Circuits
- Operates in Manual (Local) or Auto (Remote) Mode
- In Manual Mode Pump Starts on Line Voltage Alone
- Output Contacts for (a) Not-in-Auto Mode, (b) Current Sensor, (c) Overload Trip

## C233 Pump Motor Starter / Disconnect

Class B Economy Service, Single Pump

- Operates in Auto Mode Only
- 120 VAC Input to Start

## C234 Pump Motor Starter / Disconnect

Class B Economy Service, Dual Pump

- 6 Pole Disconnect for 2 Power Circuits
- Operates in Auto Mode Only
- 120 VAC Input to Start

## C235 Pump VFD Drive / Disconnect

Class A Critical Service, Single Pump VFD

- Operates in Manual (Local) or Auto (Remote) Mode
- In Manual Mode Pump Starts on Line Voltage Alone
- Output Contacts for (a) Not-in-Auto Mode, (b) Current Sensor, (c) Drive Fault
- Accepts 4-20 mA Signal for External Pressure Control If Needed.

## C230 Pump Motor Starter

Dimensions	400 x 300 x 150
Approval	CE
Enclosure	IP 66 Color RAL 7035 (Light Gray)
Environmental	-30 to 55 C
Motor Protection	Allen Bradley Components Motor Starter / Protector Lockable Disconnect Switch Internal H-O-A Switch
Output Relays	Not-In-Auto Signal Current Sensor Overload / Trip Signal
Other	Remote Start Input
Options	50 Hz Power CE Approval

## C231 Pump Motor Starter

Class A Critical Service, Single Pump

## C232 Pump Motor Starter

Class A Critical Service, Dual Pump

## C233 Pump Motor Starter

Class B Economy Service, Single Pump

## C234 Pump Motor Starter Disconnect

Class B Economy Service, Dual Pump

## C235 Pump VFD Drive

Class A Critical Service, Single Pump

## Ordering Information

Ordering Part	Description
C23X.11037	110VAC-1PH-0.37 KW
C23X.11055	110VAC-1PH-0.55 KW
C23X.11075	110VAC-1PH-0.75 KW
C23X.11110	110VAC-1PH-1.10 KW
C23X.21037	230VAC-1PH-0.37 KW
C23X.21055	230VAC-1PH-0.55 KW
C23X.21075	230VAC-1PH-0.75 KW
C23X.21110	230VAC-1PH-1.10 KW
C23X.21150	230VAC-1PH-1.50 KW
C23X.43037	415VAC-3PH-0.37 KW
C23X.43055	415VAC-3PH-0.55 KW
C23X.43075	415VAC-3PH-0.75 KW
C23X.43110	415VAC-3PH-1.10 KW
C23X.43150	415VAC-3PH-1.50 KW
C23X.43220	415VAC-3PH-2.20 KW