

earth^o safe

Fuel Systems for Critical Power

C400 OmniFlow

Network Pump Controller

The C400 OmniFlow controller includes a networkable micro PLC. The capability allows for easier monitoring of pump status and performance. It also allows the pump to be directly started by multiple controllers within the system using the data network.

The C400 is designed for critical service applications for safety, reliability, and integration.

The C400 starts in manual mode independent of control power. It includes basic motor disconnect switch, contactor with overload protection, remote start input, current sensor. To fulfill critical system requirements it also includes control transformer (for 230-480 VAC), Manual-Off-Auto selector switch, output contacts for not-in-auto state, pump active, and overload state.

C431: Critical Pump Controller 1 Pump – 1 Power Source

C432: Critical Pump Controller 2 Pump – 1 or 2 Power Source

C441: Critical Pump Controller 1 Pump – 2 Power Auto-Switch

C442: Critical Pump Controller 2 Pump – 2 Power Auto-Switch

C451: VFD Pump Controller 1 Pump – 1 Power Source

C452: VFD Pump Controller 2 Pump – 2 Power Source Auto-Switch

UL Listed: All controllers are UL listed

Voltage Range: 120 VAC - 1 Phase, 240 VAC 1-3 Phase, 480 VAC – 3 Phase, 50-60 HZ

Power Range: 0.25 to 15 HP (0.18 to 11 KW)

C400 OmniFlow

Network Fuel Pump Controller

- Integrates to Earthsafe Multi-Function Controllers
- Operates in Manual (Local) or Auto (Remote) Mode
- Allen Bradley VFD Drive
- Manual Mode Start on Line Power Alone
- Output Contacts for (a) Not-in-Auto, (b) Current Sensor, (c) Fault

C431 Pump Controller 1 Pump – 1 Power Source

C432 Pump Controller 2 Pump – 1 or 2 Power Source

C441 Pump Controller 1 Pump – 2 Power Auto-Switch

C442 Pump Controller 2 Pump – 2 Power Auto-Switch

C451 VFD Pump Controller 1 Pump – 1 Power Source

C452 VFD Pump Controller 2 Pump – 2 Power Source Auto-Switch

Dimensions Single Dual	16" Hx16" Wx8" D (400x400x200) 20" Hx20" Wx8" D (500x500x200)
Approval	UL
Enclosure	NEMA Color RAL7035 (Light Gray)
Environmental	-20 to 130F (-30 to 55C)
Motor Protection	Allen Bradley Components Motor Starter VFD Drive Overload Protection Lockable Disconnect Switch
Output Relays	Not-In-Auto Signal Current Sensor Fault Signal
Other	Remote Start Input 24 VDC
Communication	BACnet, Modbus, LON
Options	50 Hz Power CE Approval

Ordering Information

Ordering Part	Description
C4AA.XXX.Y.ZZZ	C4AA.XXX VAC-Y PH-Z.ZZ HP
AA= 431	Pump Controller 1 Pump 1 Power Source
432	Pump Controller 2 Pump 1 or 2 Power Source
441	Pump Controller 1 Pump 2 Power Auto-Switch
442	Pump Controller 2 Pump 2 Power Auto-Switch
451	VFD Pump Controller 1 Pump 1 Power Source
452	VFD Pump Controller 2 Pump 2 Power SourceAuto-Switch
XXX =	Voltage (120, 208, 230, 480)
Y =	Phase (1 or 3)
ZZZ =	HP (0.50, 0.75, 1.00, 1.50, 2.00, 3.00, 5.00, 7.50) OR KW (0.33, 0.55, 0.75, 1.00, 1.50, 2.23, 3.72, 5.60)