



TECHNOLOGIC

INTELLIGENT PUMP CONTROLLER WITH INTEGRATED BYPASS



Bell & Gossett

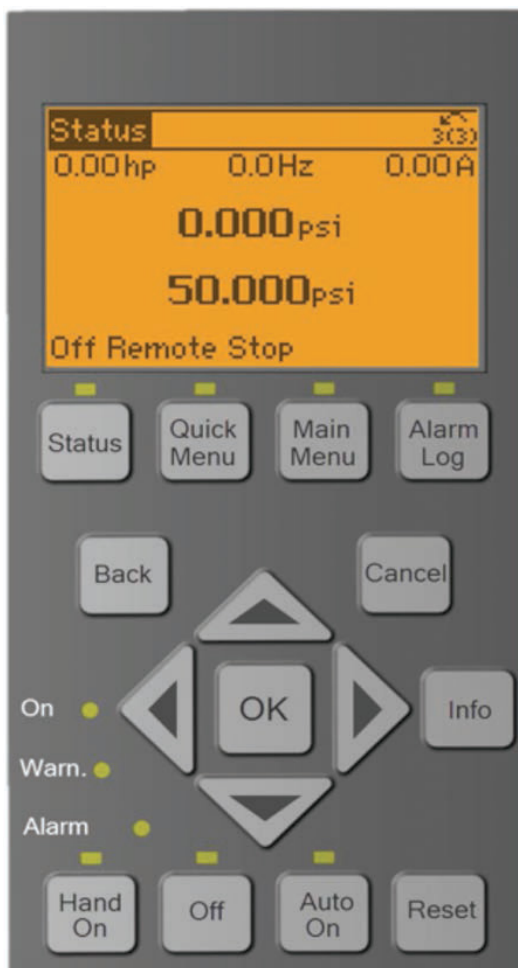
a **xylem** brand

D-610

The TECHNOLOGIC intelligent Pump Controller **with Integrated Bypass** ensures the highest reliability and redundancy for a Mission-Critical application. In the event of Drive failure or shutdown, the Integrated Bypass Panel automatically switches to line power, allowing equipment to continue operation at fixed speed. The bypass can also be activated manually with the IPC keypad or remotely through the BMS.

MEET THE HIGHEST LEVEL OF SPECIFICATION WITH THE MANY STANDARD FEATURES INCLUDED IN THE INTEGRATED BYPASS.

- UL type 1 and UL type 12 as standard
- 0.5-125 HP (460V and 575V)
- 0.5-60 HP (208V and 230V)
- Program and control the standard IPC through the setup Genie and standard keypad.
- Select bypass modes: Run/stop, run permissive, Fire mode
- Operates +/- 30% of rated voltage without need of under-voltage relay
- Electronic control of bypass for improved control and full visibility through the BMS
- Fully resettable through the BMS
- Fault logging of contactor fault, overload trip and external interlock
- Selectable motor start time delay
- 3 contactors as standard for full isolation of inverter
- Rugged contactors controlled with regulated 24V DC power supply
- 100 kA SCCR rating standard
- Operates with One phase lost
- Manual bypass initiation for operation during complete failure



Electrical Characteristics

INPUT POWER

3 Phase 208 V
3 Phase 230 V
3 Phase 460 V
3 Phase 575 V

OUTPUT POWER

Available from 1.5 up to 125 HP



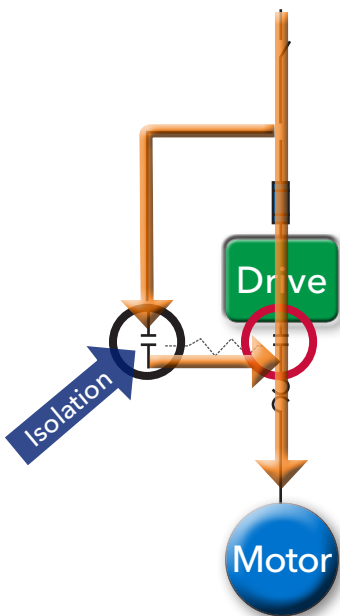
2 CONTACTOR BYPASS VS 3 CONTACTOR BYPASS

Contactors are the “switches” that open and close to allow the flow of electric current. When closed, a contactor allows current to flow through. Open contactors isolate source power from a downstream device. Contactors in a standard 2 contactor bypass work opposite from each other, when the drive is running, the contactors on it’s output is closed while the bypass contactor is open. When in bypass mode, the drive contactor opens while the bypass contactor closes---allowing only 1 source of power to the motor at once.

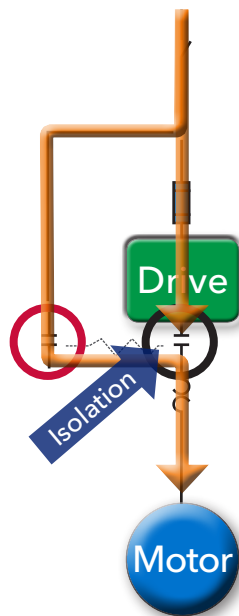
However, while a 2 contactor bypass prevents power from flowing THROUGH the VFD to the motor, power can still, backfeed from the line to energize the VFD. The third contactor in an integrated bypass panel is on the upstream side of the VFD and opens during bypass mode to isolate the VFD from input and output power. Fully isolating the VFD in bypass mode makes servicing or repairing the drive possible without disconnecting the pump/motor from power.

COMPETITOR'S 2 CONTACTOR BYPASS

Standard Operation

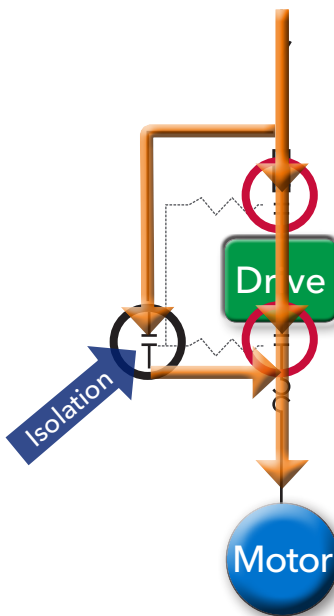


Bypass Mode

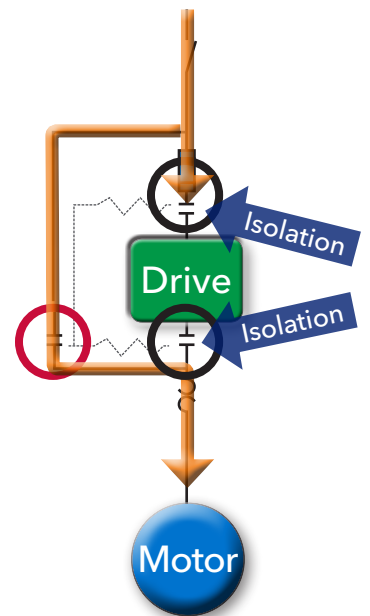


TECHNOLOGIC 3 CONTACTOR BYPASS

Standard Operation



Bypass Mode



Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to www.xyleminc.com



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