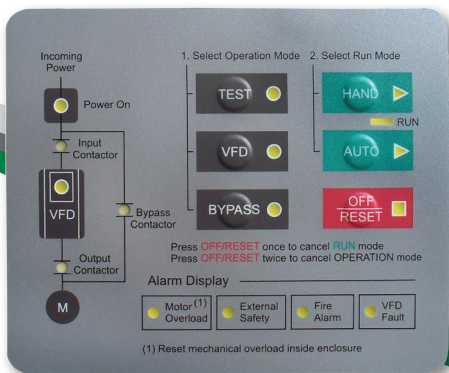


Electronic Bypass

for Unidrive SP & Commander SK drives

Economical and efficient fan & pump controls

Based on Control Techniques' field-proven Unidrive SP and Commander SK variable frequency AC drives, these highly reliable fan and pump controller packages feature a three-contactor electronic bypass control, graphical status display, dedicated alarm display, Hand/Off/Automatic controls and much more. Damper control and automatic transfer to bypass on VFD fault provide the flexibility to meet the most demanding installations without adding options.



All of the controls on the bypass keypad are dip switch enabled for ease of changing operational states on site. Automatic reset after loss of power ensures the panel will resume operation when the power is restored.



Emerson Control Techniques bypass packages are equipped with features most commonly listed in engineering specifications:

- **Standard Hand/Off/Automatic selection** allows for ease in switching control modes between Hand (Local) and Auto (Remote)
- **Graphical bypass display** — bright LEDs provide immediate identification of operational status
- **Integral alarm display** provides at-a-glance alarm status
- **Fireman's Override** provides access for fire personnel. Provides life saving functionality in conjunction with the Fire mode to provide the ultimate in flexibility for handling fire conditions
- **Fire Mode** — select between a Full Stop condition or a Purge condition
- **Automatic transfer to bypass on VFD fault** — in the unlikely event of a VFD failure, the panel switches to bypass control for critical applications
- **Damper control** delays the start of the VFD or Bypass until proof of Damper being fully open is received by the electronic bypass control

These new ultra-compact electronic bypass packages have a footprint that is 30% smaller than the previous generation allowing you to pack in the most popular features and options while saving space!

UL 508A Approved 



Electronic Bypass for Unidrive SP & Commander SK drives



Available in NEMA 1, NEMA 12 and NEMA 3R enclosures, the electronic bypass package is supplied with either an Input circuit breaker or a fused disconnect (rated 100 kA SCCR). The standard 3-contactor configuration allows for isolation of the VFD for maintenance or offline adjustments.

Key Features

- 3-contactor electronic bypass
- Digital AC drive featuring dynamic and quadratic motor flux V/Hz mode (default), open loop vector mode, or rotor flux control (Unidrive SP only)
- Speed reference, 0-10 VDC, 0-20 mA, 4-20 mA
- Linear and S-type accel and decel ramps
- Whisper-quiet switching frequencies to 18 kHz
- 1–30 hp (208 V), 1–40 hp (230 V), 1–200 hp (460 V)
- RS485 port for Modbus RTU communications
- Bright VFD keypad
- Built-In EMC/RFI filter
- Complimentary PC software tools
- UL 508A approved

Options

- Input circuit breaker
- Fused disconnect
- AC input reactor 3% or 5%
- Soft start bypass
- Additional I/O
- NEMA-12 ventilated enclosure
- NEMA-3R enclosure
- Wide range of industry standard fieldbuses including Profibus-DP, INTER-BUS, DeviceNet, CANopen, Ethernet IP, EtherCAT and more options

BOXit![™]
PACKAGED SOLUTIONS

BOXit![™] packaged solutions.

Control Techniques offers a broad range industrial drive and motion control products and accessories including NEMA-rated enclosures as well as power and control options.

When your application requires motor control enclosures, our exclusive “BOXit!” program provides packaged-drive solutions to meet your specific application requirements.

When you need cost-effective, quick-turnaround packaged motor control solutions, just say “BOXit!”

Visit our website at www.emersonct.com for complete bypass and drive information.