



TORNATECH

LISTEN DEVELOP LEAD

# VPx Series

## Full Service Variable Speed (VFD) Electric Fire Pump controller

### Standard Features

- NEMA 2 enclosure
- Micro-processor based
- Display module and pressure adjustment accessible without opening main door
- Built in Variable Frequency Drive (VFD)
- Bypass-Variable-Preset-speed mode selector switch
- Pressure transducer set (2) for reading of discharge pressure (600psi)
- Data/Pressure recorder accessible without opening main door
- Also available with Model VPU automatic power transfer switch.



### Bypass Starting Methods

- Model VPA - Full voltage Across the Line
- Model VPS - Reduced Voltage Soft Start Soft Stop
- Model VPR - Reduced Voltage Autotransformer



NFPA  
MEMBER  
2018-2019



c UL US

# VPx Series

## MANUAL OPERATORS (FLANGE MOUNTED)

- Single operator for both isolating switch and circuit breaker, door interlocked in the "ON" position complete with interlock defeater screw
- Emergency manual start handle
- Start, Normal Delayed Stop, Emergency Instant Stop and Silence/Reset push buttons
- Bypass-Variable-Preset-speed mode selector switch
- Visual and audible indicators:
  - Bypass Mode red pilot light
  - VFD Failure red pilot light
  - Buzzer for Bypass Mode and VFD Failure

## ELECTRICAL FEATURES

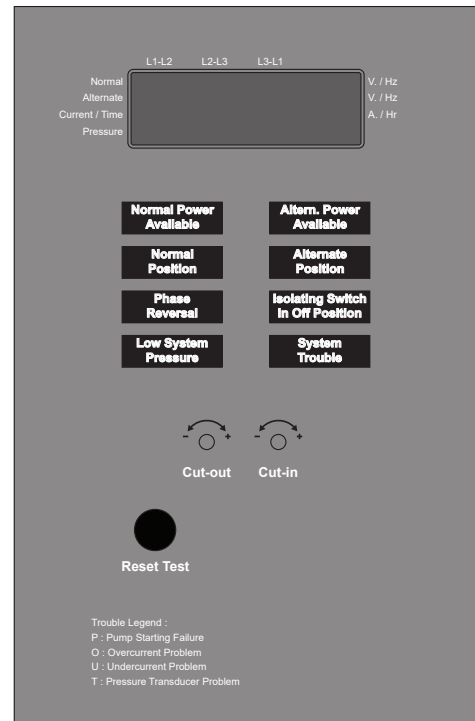
- Molded case isolating switch
- Molded case circuit breaker
- Built In Variable Frequency Drive (VFD)
- Line fuses for VFD protection (spare fuses included)
- Line and load contactors for VFD isolation
- Across the line or reduced voltage by-pass contactor
- 5% impedance line reactor for VFD
- 3 phase voltage surge suppressor

## CONTROL FEATURES

- Micro-processor logic based
- Locked rotor protection
- Provision for remote or deluge valve start
- Automatic start sequence
- Manual and emergency start
- Sequential start timer
- Weekly test setting
- Run period timer

## INDIVIDUAL DRY ALARM CONTACTS DPDT

- Power or Phase Loss and/or circuit breaker in open position
- Trouble
- Phase Reversal
- Bypass Mode
- Pump Run
- VFD Failure



LCD display for model with transfer switch

## ANNUNCIATOR AND LCD DISPLAY

- Phase sequence / loss monitoring & alarms
- Individual phase-to-phase voltage indication
- Individual phase current indication
- Elapsed run time
- Over & under current visual indication
- Over & under voltage visual indication
- Fail to start visual indication
- Phase loss visual indication
- Phase unbalance visual indication
- Power available LED
- Phase reversal LED
- Low system pressure LED
- System trouble LED
- Cut-In & Cut-Out pressure setting
- System pressure indication
- Pressure recording
- Alarm & events recording

### AMERICAS

Tornatech Inc.  
Head Office  
Laval, Quebec, Canada  
Tel: + 1 514 334 0523  
Toll free: + 1 800 363 8448

### EUROPE

Tornatech Europe SPRL  
Wavre, Belgium  
Tel: + 32 (0) 10 84 40 01

### MIDDLE EAST

Tornatech FZE  
Dubai, United Arab Emirates  
Tel: + 971 (0) 4 887 0615

### ASIA

Tornatech Pte Ltd.  
Singapore  
Tel: + 65 6795 8114  
Tel: + 65 6795 7823