

Powerpack™ Express Economical, Rugged, Reliable, And Ready To Ship

SIEMENS

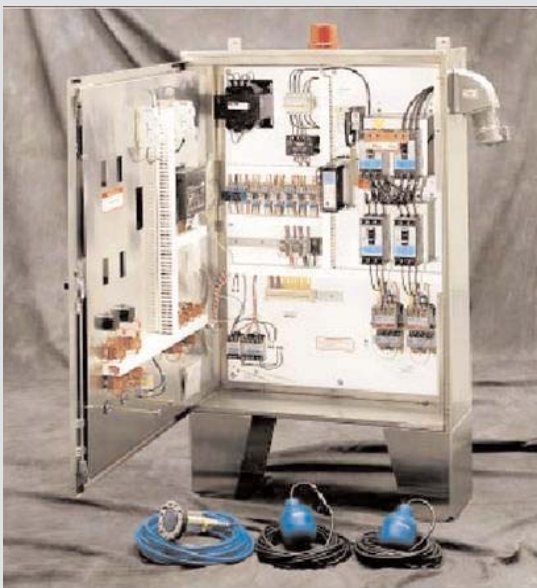
POWERPACK EXPRESS, FP1

FP1 is a full featured high quality pump control panel suitable for duplex lift station control of motors from ½ HP up to 50 HP. The enclosure is available in a wide variety of ratings and exterior finishes. Additional offerings are a comprehensive selection of options including emergency power receptacle, back up controls, sensors, telemetry/alarm dialer and others not normally found in a pre-engineered pump control panel. Each unit is constructed of heavy duty full rated NEMA type starters and industrial rated components including the very popular D152 or the advanced IntraLink™ LC150 "View At A Glance" pump controller. Each panel is quality constructed with ample room to access chassis mounted devices, factory tested and UL 698A Serialized Labeled. Standard features include:

- High Quality NEMA Rated Enclosure with Dead Front Inner Door & Print Pocket
- Service Entrance Rated Main Circuit Breaker
- NEMA Rated Motor Starters
- Run Lights & H-O-A Operators
- Run Time Meters
- Push Button Overload Reset Operators
- Model A1000 Submersible Level Transducer
- 14 AWG Minimum Control Wiring With Wire Numbers
- UL Serialized Label (698A)

Optional Features

- Intrinsic Safety Barriers
- Overtemp And Seal Fail Monitoring
- Electrical Surge Protection
- Power Monitor For Each Motor
- Top Mounted High Visibility Red Strobe - Common Alarm Light
- Isolated Alarm (Power Phase Failure, Wet Well Level Alarm) And Status (Pump Run) Contacts To Terminal Blocks For Connection To External Equipment
- Thermostatically Controlled Condensation/Freeze Protection



Use the following table to select the Powerpack Express configuration that is right for you:

- (1) Incoming Service Voltage (Service Entrance Rated)
 - 208 VAC 3 Phase, 4 Wire, 60 Hertz
 - 240 VAC 1 Phase, 3 Wire, 60 Hertz
 - 240 VAC 3 Phase, 3 Wire, 60 Hertz
 - 240 VAC 3 Phase, 4 Wire, 60 Hertz
 - 480 VAC 3 Phase, 3 Wire, 60 Hertz
- (2) Surge Protection (Incoming Service Only) Required
- (3) Power/Phase Failure Monitors Required
- (4) Cabinet Heater (100 Watt) w/High Temp Cutoff- Condensation/Freeze Protection. Required
- (5) Circuit Breaker Interrupt Rating Select (Typically The Same As Main Breaker Ratings)
 - Siemens (AIC-65K @ 240/18K @ 480)
 - Siemens (AIC-100K @ 240/65K @ 480)
 - Square D (AIC-25K @ 240/18K @ 480)
 - Square D (AIC-100K @ 240/65K @ 480)
- (6) Alarm Dialer Provides Offsite Alarm Notification Of Station Alarms (Customer to provide dial up phone line service connection) Required
 - Provide 13" x 11" (33 cm x 28 cm) Panel Space For Customer Provided and Mounted Dialer
 - RACO CB 4 Four Channel Alarm Dialer w/Power Fail
 - Sensaphone Express 4 Channel Alarm Dialer w/Power Fail
 - Mount & Wire Customer Provided RACO CB4 Alarm Dialer
 - Mount & Wire Customer Provided Sensaphone Express Alarm Dialer
- (7) Panel Insulation (3/4" (1.9 cm) R Value __) (Recommended For Environments Subject to temperatures below 32° F (0° C)) Required

- (8) Seal Fail & OT – Includes Indicators and Reset Push Button Operators (Typically required for Submersible Pumps) Required
- Siemens Standard (Probe Relay and OT Relay w/Pump Lockout) (Do not use for Flygt®, Ebara® and ABS® pumps, see other options below.)
 - Siemens Standard Overtemp Relay (No Seal Fail) (Do not use for Flygt®, Ebara® and ABS® pumps, see other options below.)
 - Mount & Wire Customer Provided Flygt® MiniCAS II Modules
 - Mount & Wire Customer Provided Eubara® PumpCon Modules
 - Mount & Wire Customer Provided ABS® or SealMinder™ Relay Modules & Siemens Water Technologies Std OT Relay
 - Mount & Wire Customer Provided Flygt® MiniCAS II Modules (Inner Door Mounted)
- (9) Contact Outputs For Level & Motor Status Required
- (10) Alarm Light (Top Panel Mounting) Required
- (11) Weatherproof Alarm Horn (Side Mounted and Includes Silence Push Button) Required
- (12) Simultaneous Run Time Meter (Accumulates Time When Both Pumps Activated To Meet Demand) Required
- (13) Push To Test Lights in Lieu of Standard (Provides Quick Easy Method to Verify Light Operation) Required
- (14) GFI Receptacle (Includes 10 Amp Circuit Breaker & GFI Protected Receptacle) Required
- (15) Motor HP*- See Ratings below
- .5, .75, 1.0, 1.5, 2.0, 3.0, 5.0, 7.5,
 - 10.0, 15.0, 20.0, 25.0, 30.0, 40.0, 50.0
- (16) Overload Relay Classification
- Class 10 Quick Trip (Recommended For Submersible Pumps)
 - Class 20 Standard Trip (Recommended For Open Air Mounted Pumps)
- (17) Enclosure: (48”h X 26”w X 12”d)
- NEMA Type 3R – Painted Forest Green
 - NEMA Type 3R – Painted ANSI 61 Grey
 - NEMA Type 3R – Painted Beige
 - NEMA Type 3R – 304 Stainless Steel
 - NEMA Type 3R – 304 Stainless Steel Painted Forest Green
 - NEMA Type 4 – Painted ANSI 61 Grey
 - NEMA Type 4X – 304 Stainless Steel
 - NEMA Type 4X – Fiberglass
- (18) 12” Floor Stands w/Louvered Skirts (Material & Finish to Match Enclosure) Required
- (19) Controller
- D152 Duplex Controller 0-10 Ft (0-3.1 m)
 - D152 Duplex Controller 0-20 Ft (0-6.1 m)
 - LC150 Advanced Controller 0-10 Ft (0-3.1 m) – Field Configurable - Is Telemetry Ready
 - LC150 Advanced Controller 0-20 Ft (0-6.1 m) – Field Configurable - Is Telemetry Ready
- (20) Main And Emergency Breaker
- Main Only
 - Main And Emergency
- (21) Emergency Receptacle (Units are Appleton Powertite Brand with Reverse Service – Hot Plug Feeds Dead Receptacle) Required
- 100 Amp Style 1 w/Angle Adapter (3 Pin – Ground is through Receptacle Shell)
 - 100 Amp Style 2 w/Angle Adapter (4 Pin – Ground is through Receptacle Shell and Pin)
 - 200 Amp Style 1 w/Angle Adapter (3 Pin – Ground is through Receptacle Shell)
 - 200 Amp style 2 w/Angle Adapter (4 Pin – Ground is through Receptacle Shell and Pin)
- (22) Back Up Controller & Float Switch Sensors Required
- CB1T (D152) or CB1000 (LC150) With 3 Model LS Internally Weighted Floats w/60 Ft. Cable
 - CB1T (D152) or CB1000 (LC150) With 3 Model 9G Cable Mounted Floats w/60 Ft. Cable
 - CB1T (D152) or CB1000 (LC150) With 3 Model 9G Pipe Mounted Floats w/60 Ft. Cable
 - CB1T (D152) or CB1000 (LC150) With 3 Model 9G-EF Cable Mounted Floats w/60 Ft. Cable
 - CB1T (D152) or CB1000 (LC150) With 3 Model 9G-EF Pipe Mounted Floats w/60 Ft. Cable
 - CB1T (D152) or CB1000 (LC150) With 3 Floats By Others
- (24) Intrinsic Safety For Sensors Required
- (25) Low Level Lockout Required (Available when float back up system is selected - Locks pump(s) out of operation upon activation of low level float switch. Pumps are re-enabled when wet well rises to low float deactivation level)

***Voltage ratings:**

240V 1 PH Up To 10 HP
 208V 3 PH Up To 25 HP
 240V 3 PH Up To 30 HP
 480V 3 PH Up To 50 HP

The information provided in this literature contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of the contract.

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Siemens
 Water Technologies
 1239 Willow Lake Blvd.
 Vadnais Heights, MN 55110
 651.766.2700 phone
 651.766.2701 fax
 www.siemens.com/water

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