

Powerpack™ Express Economical, Rugged, Reliable, And Ready To Ship Model FP2

SIEMENS

POWERPACK EXPRESS, FP2

FP2 is a high quality pump control panel that is built to provide a long life and is suitable for duplex lift station control of motors from ½ HP up to 50 HP. The enclosure is available in a variety of ratings and exterior finishes that accommodates a comprehensive selection of options ranging from back up controls, sensors, telemetry/alarm dialer and other options 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 and easy to see and use operators and indicators. 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 Doors & Print Pocket
- NEMA Rated FVNR 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

- Electrical Surge Protection
- Power Monitor For Each Motor
- Back Up Controller and Sensors
- 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
- Intrinsic Safety Barrier
- Overtemp and Seal Fail Monitoring
- GFI Receptacle

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 Cutout – Condensation/Freeze Protection Required
- (5) Circuit Breaker Brand & Interrupt Rating Select
 - Siemens (AIC-65K @ 240/18K @ 480V)
 - Siemens (AIC-100K @ 240/65K @ 480V)
 - Square D (AIC-25K @ 240/18K @ 480V)
 - Square D (AIC-100K @ 240/65K @ 480V)
- (6) Alarm Dialer Provides Offsite Alarm Notification of Station Alarms (Customer to provide dial up phone line service connection) required
 - Provide 13" x 11" 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" R Value 4) (Recommended For Environments Subject to temperatures below 32 Deg F) 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) (Suitable for Fairbanks, KSB, and Others - Consult Factory)
 - Siemens Standard Overtemp Relay (No Seal Fail) (Suitable for Fairbanks, KSB, and Other - Consult Factory)
 - Mount & Wire Customer Provided Flygt® MiniCAS II™ Modules
 - Mount & Wire Customer Provided Ebara® PumpCon™ Modules
 - Mount & Wire Customer Provided ABS® Sealminder™ Relay Modules & Siemens WT 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 (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 Voltage 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: Size 36" H x 36" W x 12" D
- NEMA Type 3R – Painted ANSI 61 Grey
 - NEMA Type 3R – Painted ANSI 61 Grey w/3 Point Locking Latch
 - NEMA Type 4X – 304 Stainless Steel
 - NEMA Type 4X – Fiberglass

- (18) Controller
- D152 Duplex Controller 0-10 Ft
 - D152 Duplex Controller 0-20 Ft
 - LC150 Advanced Controller 0-10 Ft – Field Configurable (Telemetry Ready)
 - LC150 Advanced Controller 0-20 Ft – Field Configurable (Telemetry Ready)
- (19) Back Up Controller & Float Switch Sensors Required. (CB1T Includes Model IS6 Intrinsic Safety Module, CB1000 Has Intrinsically Safe Inputs)
- 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
- (20) Intrinsic Safety Required (Sensors Only)
- (21) 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:**

240 Volt 1 Phase 60 Hertz – Up to 10 HP
 208 Volt 3 Phase 60 Hertz – Up to 25 HP
 240 Volt 3 Phase 60 Hertz – Up to 30 HP
 480 Volt 3 Phase 60 Hertz – 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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