



**MARK<sup>III+</sup> Electric Fire Pump Controllers**

**SPECIAL ENCLOSURES**

Option	Description
---	Enclosure, NEMA Type 2 (IEC IP22), Painted Steel (Standard)
-E	Enclosure, NEMA Type 4 (IEC IP65), Painted Steel
-F	Enclosure, NEMA Type 4X (IEC IP66), #304 Stainless Steel, Brushed Finish
-FD	Enclosure, NEMA Type 4X (IEC IP66), #316 Stainless Steel, Brushed Finish
-FDB	Enclosure, NEMA Type 4X (IEC IP66), #316 Stainless Steel, Seam Welded, Brushed Finish
-FDP	Enclosure, NEMA Type 4X (IEC IP66), #316 Stainless Steel, Painted Finish
-FXP	Enclosure, NEMA Type 4X (IEC IP66), #304 Stainless Steel, Painted Finish
-G	Enclosure, NEMA Type 12 (IEC IP54), Painted Steel
-T	Enclosure, NEMA Type 3R (IEC IP24), Painted Steel
-U	Enclosure, NEMA Type 3 (IEC IP54), Painted Steel

**CIRCUIT BREAKER OPTION\***

Option	Description									
Standard Short Circuit Current Rating										
-M	200-208V	220-240V	380-415V	440-480V	550-600V	200-208V	220-240V	380-415V	440-480V	
-R	5-150 HP	5-200 HP	5-350 HP	5-400 HP	5-500 HP	200 HP	250-400 HP	400-500 HP	450-500 HP	
	100kA (M)	100kA (M)	100kA (M)	100kA (M)	50kA (R)	50kA (M)	50kA (M)	50kA (M)	50kA (M)	
Intermediate Short Circuit Current Rating										
-N	200-208V	220-240V	380-415V	440-480V	550-600V	200-208V	220-240V	380-415V	440-480V	
-Q	5-150 HP	5-200 HP	5-350 HP	5-400 HP	5-500 HP	200 HP	250-400 HP	400-500 HP	450-500 HP	
	150kA (N)	150kA (N)	150kA (N)	150kA (N)	100kA (Q)	N/A	N/A	N/A	N/A	
High Short Circuit Current Rating										
-P	200-208V	220-240V	380-415V	440-480V	550-600V	200-208V	220-240V	380-415V	440-480V	
	5-150 HP	5-200 HP	5-350 HP	5-150 HP	5-500 HP	200 HP	250-400 HP	400-500 HP	450-500 HP	
	200kA	200kA	200kA	200kA	NA	100kA	100kA	100kA	100kA	

**ANTI-CONDENSATION SPACE HEATERS**

Option	Description
None	
-J	Space Heater, 120V Externally Powered with Circuit Breaker & Thermostat
-K	Space Heater, 120V Externally Powered with Circuit Breaker & Humidistat
-M	Space Heater, 240V Externally Powered with Circuit Breaker & Thermostat
-N	Space Heater, 240V Externally Powered with Circuit Breaker & Humidistat
-JKP	Space Heater, 120V Externally Powered with Circuit Breaker, Thermostat and Humidistat in Parallel
-MNP	Space Heater, 240V Externally Powered with Circuit Breaker, Thermostat and Humidistat in Parallel

**PRESSURE TRANSDUCERS, SOLENOID VALVES, PLUMBING**

Option	Description
---	Wetted Parts including Pressure Sensor and Test Solenoid, 300 PSI (20.4 Bar) Fresh Water
-B1	Wetted Parts including Pressure Sensor and Test Solenoid, 500 PSI (34.5 Bar) Fresh Water (For Factory Calibration Purposes Only)
-C1	Wetted Parts including Pressure Sensor and Test Solenoid, 300 PSI (20.4 Bar), Sea Water
-D1	Wetted Parts including Pressure Sensor and Test Solenoid, 500 PSI (34.5 Bar), Sea Water
-SP1	Low Suction Pressure Transducer, Fresh Water, 0-300 PSI (20.4 Bar) with Visible Indication and Output Contacts
-SP2	Low Suction Pressure Transducer, Sea Water, 0-300 PSI (20.4 Bar) with Visible Indication and Output Contacts

## FOAM PUMP APPLICATIONS

### Option

### Description

#### Required For Foam

- LR1 Low Foam Level External Input, Visible Indications and Alarm Contacts, Additive with Provisions for Proof Pressure Switch Connection, With Lockout and Remote Alarm Indication For Interlock On (Locked Out)

#### Required For Foam

- LK1 Foam Pump Application With Pressure Transducer and Run Test Solenoid Valve (Auto. Start)
- LK2 Foam Pump Application With Pressure Transducer and Run Test Solenoid Valve, Stainless Steel (Auto. Start)
- LK3 Foam Pump Application Without Pressure Transducer and Run Test Solenoid Valve (Manual Start)

#### Optional For Foam

- DVC Operation, Dump Valve Control

## ALARMS

### Option

### Description

- AC Extra Alarm Output Contacts, Pump Operating (2 Form-C)
- AM Alarm Output Contacts, Fail to Start
- AV Alarm Output Contacts, Low Pump Room Temperature
- AW Alarm Output Contacts, Reservoir Low
- AY1 Configurable Low Suction Pressure, Visible/Output Contacts with External Digital Input
- BWI Extra Alarm Output Contacts, Phase Failure/Phase Reversal
- BY1 Alarm Output Contacts, Overcurrent
- CTSI Configurable Low Suction Pressure, Visible/Output Contacts with Suction Pressure Transducer
- EHI Alarm Output Contacts, Main Relief Valve Open
- EK Alarm Output Contacts, Flow Meter Open
- JR Visible Indicator, Jockey Pump Operating
- JT Alarm, Audible/Visible, Jockey Pump Trouble
- KH Alarm Output Contacts, Common Alarm
- PI Alarm, Audible/Visible, Built-In 120V Supervisory System (Includes Visible Supervisory Voltage Normal Indication and Audible Pump Operating, Phase Failure and Phase Reversal Indication)
- PE Alarm Output Contacts, Low System Pressure (Pump on Demand)
- PT Alarm, Audible/Visible, Built-In 240V Supervisory System (Includes Visible Supervisory Voltage Normal Indication and Audible Pump Operating, Phase Failure and Phase Reversal Indication)

## MISCELLANEOUS

### Option

### Description

- ED2 Normal Source Load Shedding with Adjustable Time Delay to Remove Non-Critical Loads Before Starting
- EL Series Pumping Operation, High Zone Controller
- EM Series Pumping Operation, Mid Zone Controller
- EN Series Pumping Operation, Low Zone Controller
- IEC Marking, CE with External Wet Parts (Requires NEMA Type 12 (IP54) Enclosure as Minimum)
- MZN Neutral Lug, Service Entrance, Non-Insulated Bonded to Enclosure
- OSP Seismic Certification compliant to OSHPD (CA) for rigid base or wall mount only
- PK Terminal Blocks, Extra Remote Start
- PY Output Contacts, Motor Space Heater, Externally Powered
- S Tropicalization
- SEI Seismic Certification compliant to CBC 2019, IBC 2018 for rigid base or wall mount only

-USBX	Data Port, External USB
-Y55	Controller Temperature Rating, 55°C (131°F) Ambient Temperature
-ZPM1	Data Port, RS-485 Modbus RTU
-XCR	Export Packaging (Wooden Crating to Conform to IPPC Standards)

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