



Electric fire pump controller

Full service reduced voltage

Wye delta open transition starter

Micro-processor based

The model FPY reduced voltage wye delta open transition fire pump controller built to the latest NFPA 20 and UL218 Standards provides for:

- Reduction of inrush current to 33% of normal in the wye connection. This type of controller is meant to be used where the capacity of the electric power source does not permit full voltage across-the-line starting. (Not recommended for limited output generator application.)
- The open transition switchover from the wye to the delta (across-the-line) connection can result in a momentary peak current of up to or above the across-the-line inrush current.
- 6-wire motor connection and change of motor rotation can be cumbersome.

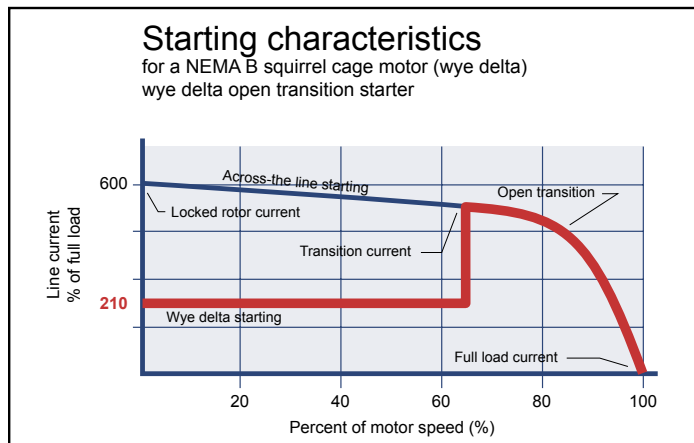
Only quality components, all U.L. listed or recognized and C.S.A. certified are used throughout to assure the best possible reliability.

The complete assembled and wired controllers are factory tested before shipping and ready for immediate installation.

SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT

(where acceptable by local code)

This controller meets the NFPA 20 requirements for connection to a normal power source only. For normal and alternate power sources, add a listed fire pump automatic transfer switch (Model ATG or ATU). Fire pump controller and automatic transfer switch will be supplied as one unit.



CONTROLLER PROTECTION LEVEL:

- Standard NEMA - UL - CSA type 4 - IP65 (waterproof)
- Optional NEMA - UL - CSA type 4X - IP65 (SS T-304 Red)

OPERATIONAL TEMPERATURE LIMITS:

- 41°F to 122°F (5°C to 50°C)

DISPLAY & PRINTER MODULE PRS99

- Accessible through hinged operator door

MICRO-CONTROLLER MODULE ATS 99

- Mechanically protected and shielded

WITHSTAND RATING (short circuit current):

	208V. to 480V.	600V.
Standard	100,000 A.	50,000 A.
Optional	150,000 A.	100,000 A.

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, providing for manual across-the-line starting
- Start and Stop push buttons

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STANDARD FEATURES:

- Molded case isolating switch
- Molded case circuit breaker
- Wye delta open transition motor starter HP rated
- 3 phase voltage surge suppressor
- Provision for remote start circuit

MICRO-CONTROLLER MODULE ATS99

- Mounted within enclosure
- Factory set (no field programming)
- Provides:
 - Lock rotor protection
 - Phase sequence / loss monitoring & alarms
 - Minimum run period timer (disarmable)
 - Sequential start timer (adjustable)
 - Weekly test (electrical initiation)
 - Voltage & current sensing (all phases)
 - Pressure sensing (300 PSI transducer)
 - Automatic start sequence
 - System trouble fail safe alarm
- Manual & emergency control circuit independent of Micro-Controller

INDIVIDUAL DRY ALARM CONTACTS

10A. 250VAC FOR:

- Power or phase failure and/or circuit breaker in open position DPDT
- Trouble (alarm conditions) DPDT
- Phase reversal DPDT
- Pump run 1N/O-1N/C

OPTIONAL FEATURES:

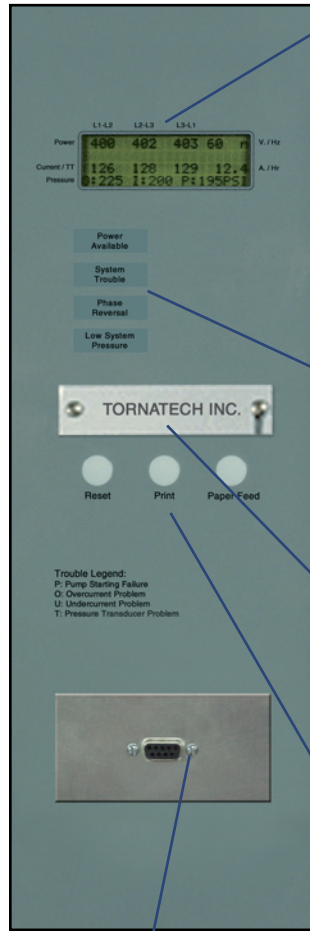
For additional features, see option section:

- Option Type A: Operational modifications
- Option Type B: Additional annunciators
- Option Type C: Extra alarm contacts
- Option Type D: Miscellaneous
- Option Type E: Load shedding provisions
- Option Type H: Export packing

Consult our Model CPY brochure for a relay logic based alternative.

DISPLAY & PRINTER MODULE PRS99

The latest technology used in Fire Pump Control
Readily accessible through hinged operator door
Main door remains safely closed



Digital display

- All 3x line-to-line voltages and frequency
- All 3x line motor amperages
- System & settings Pressures (PSI or kPa)
- True elapsed run time
- Alarm conditions
 - Pump Starting Failure "P"
 - Overcurrent Problem "O"
 - Undercurrent Problem "U"
 - Pressure Transducer Problem "T"
- Back lighted for dark room conditions
- High accuracy (2%)

Normal Power Source Annunciator

- Individual annunciators for:
 - Power Available
 - System Trouble
 - Phase Reversal
 - Low System Pressure
- Powered by a high luminosity led

Pressure setting field adjustments

- Accessible with main door closed
- Tamper proof, protected by cover plate
- Live settings adjustments visible on display
- Cut In (pump start threshold) & Cut Out (pump stop threshold)

Manual operators

- Reset push button
- Print command push button (set-up menu)
- Paper Feed push button

DB9 communication port to built-in pressure & events recorder

- Accessible with main door closed
- Allows easy print to laptop with a standard RS232 port using Hyperterminal program standard with Microsoft Windows 98 and up and a DB9M-DB9F extension cable

Printer

- (Optional, see option D17A) in lieu of DB9 communication port.

208V.	240V.	380-416V.	440-480V.	600V.	WIDTH	HEIGHT	DEPTH	APPROX. WEIGHT
HP	HP	HP	HP	HP	in. (mm)	in. (mm)	in. (mm)	Lbs. (Kg)
5-30	5-30	5-50	5-60	5-75	30 (762)	42 (1066)	12 (305)	295 (134)
40-60	40-60	60-100	75-150	100-150	30 (762)	60 (1524)	14 (356)	380 (172)
75-150	75-200	125-350 *	200-400	200-500	36 (914)	74 (1879)	18 (457)	640 (290)

* 350 HP 380-416 V. if FLC < 522 A.

Height does not include mounting feet

HOW TO ORDER: **FPY - V / HP / Ph / Hz + options**
 Ex.: **FPY - 208 / 20 / 3 / 60 + options**

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