



# Model GPD(FM) Series Controllers for Diesel Engine Driven Fire Pumps

Certificate Number: **FM24US0221**

## Company

**TornaTech Inc**

4100 Desserte Sud, (A-440 Ouest) Laval , Quebec H7T 0H3  
Canada

<http://tornatech.com>

# Annex

Fire Pump Components | Fire Pump Controllers | **Fire Pump Controllers, Diesel Engines**

## Model GPD(FM)

### Description of Equipment:

**Model GPD(FM)-a-b-c Diesel Engine Fire Pump Controller with ViZiTouch Control**

Standard Enclosure: NEMA/UL Type 2.

Standard Ambient Temperature Operating Range: 39°F (4°C) to 104°F (40°C)

Optional Ambient Temperature Operating Range: 39°F (4°C) to 131°F (55°C) (See Remarks)

a = Voltage, Vdc	b = Voltage Input, Vac	c = Options
12 - 12 VDC	120 - 110-120V / 50-60Hz	
24 - 24 VDC	220 - 208-240V / 50-60Hz	

**Note:** Both GPD and GPDFM models are FM Approved.

### Remarks:

- a. Model GPD Series controllers require the installation of a NEMA rated filter fan to maintain the optional 131°F (55°C) maximum ambient temperature rating. This modification is only Approved when installed by the manufacturer.
- b. When Model GPD Series controllers are equipped with EBCH1210T, EBCH2410T, 1BAT004 or 1BAT005 battery chargers, the installation of the NEMA rated filter fan is not required for a 131°F (55°C) maximum ambient temperature rating.

### Details

<b>Category</b>	Fire Pump Controllers, Diesel Engines
<b>Class of Work</b>	1323 - Fire Pump Ctlrs, Diesel
<b>Certification Type</b>	FM Approved
<b>Listing Country</b>	Canada
<b>Certificate Number</b>	FM24US0221

Fire Pump Components | Fire Pump Controllers | **Fire Pump Controllers, Diesel Engines**

## Model GPD(FM)



# Model GPx(FM) Series Low Voltage Electric Motor Driven Fire Pump Controllers

Certificate Number: **FM24FPUS0016**

## Company

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# Annex

Fire Pump Components | Fire Pump Controllers | **Fire Pump Controllers, Full Service Electric Motors**

## Model GPx+GP

### Description of Equipment:

**Model GPx+GPa-b/(c or d)/e/f Electric Motor Fire Pump Controller with Automatic Transfer Switch - Low Voltage**

Standard Enclosure: NEMA/UL Type 2. Optional Enclosures: NEMA/UL Types 3, 3R, 4, 4X, 12

Standard Ambient Temperature Operating Range: 39°F (4°C) to 104°F (40°C)

Optional Ambient Temperature Operating Range: 39°F (4°C) to 131°F (55°C) (See Remarks)

<b>x = Pump Controller Model</b>	<b>a = Transfer Switch Model</b>	<b>b = Voltage, Vac</b>	<b>c = Horsepower or Kilowatt</b>
A - Across the Line R - Autotransformer S - Soft Starter P - Part Winding V - Primary Resistor Y - Wye Delta Open Transition W - Wye Delta Closed Transition	G - generator set emergency supply U - second utility emergency supply	208 220 230 240 380 400 415 440 460 480 600	3 to 200 HP (208 V) 3 to 400 HP (220 - 240 V) 3 to 500 HP (380 - 415 V) 3 to 500 HP (440 - 480 V) 4kW to 560kW (380 - 415V) 3 to 500 HP (600 V)
<i>d = Minimum to Maximum Full Load Current</i>	<i>e = Number of Phases</i>	<i>f = Frequency</i>	
* For motors rated in kW For voltages other than 380 – 415V	1 - Single Phase System 3 - Three Phase System	50 - 50 Hz 60 - 60 Hz	

**Remarks:**

a. Model GPx Series controllers larger than 190 FLA require the inclusion of a fan(s) inside the enclosure to maintain the optional 131°F (55°C) maximum ambient temperature rating. This modification is only Approved when installed by the manufacturer.

### Details

<b>Category</b>	Fire Pump Controllers, Full Service Electric Motors
<b>Class of Work</b>	1321 - Fire Pump Ctlrs, ElecMtr
<b>Certification Type</b>	FM Approved
<b>Listing Country</b>	Canada
<b>Certificate Number</b>	FM24FPUS0016

Fire Pump Components | Fire Pump Controllers | **Fire Pump Controllers, Full Service Electric Motors**

## Model GPx

# FM Approvals

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Fire Pump Components | Fire Pump Controllers | [Fire Pump Controllers, Full Service Electric Motors](#)

## Model GPxFM

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Fire Pump Components | Fire Pump Controllers | [Fire Pump Controllers, Full Service Electric Motors](#)

## Model GPxe

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# Model GPx(FM) Series Low Voltage Electric Motor Driven Fire Pump Controllers

Certificate Number: **FM24FPUS0016**

## Company

**TornaTech Inc**

4100 Desserte Sud, (A-440 Ouest) Laval , Quebec H7T 0H3  
Canada

<http://tornatech.com>

# Annex

Fire Pump Components | Fire Pump Controllers | **Fire Pump Controllers, Full Service Electric Motors**

## Model GPx

### Description of Equipment:

#### Model GPx-a/(b or c)/d/e Electric Motor Fire Pump Controller - Low Voltage

Standard Enclosure: NEMA/UL Type 2. Optional Enclosures: NEMA/UL Types 3, 3R, 4, 4X, 12

Standard Ambient Temperature Operating Range: 39°F (4°C) to 104°F (40°C)

Optional Ambient Temperature Operating Range: 39°F (4°C) to 131°F (55°C) (See Remarks)

<b>x = Model</b>	<b>a = Voltage, Vac</b>	<b>b = Horsepower or Kilowatt</b>	<b>c = Minimum to Maximum Full Load Current</b>
A - Across the Line	208	3 to 200 HP (208 V)	*For motors rated in kW For voltages other than 380 – 415V
R - Autotransformer	220	3 to 400HP (220 - 240 V)	
S - Soft Starter	230	3 to 500 HP (380 - 415 V)	
P - Part Winding	240	3 to 500 HP (440 - 480 V)	
V - Primary Resistor	380	4kW to 560kW (380 – 415V)	
Y - Wye Delta Open Transition	400	3 to 500 HP (600 V)	
W - Wye Delta Closed Transition	415		
	440		
	460		
	480		
	600		
<i>d = Number of Phases</i>		<i>e = Frequency</i>	
1 - Single Phase System		50 - 50 Hz	
3 - Three Phase System		60 - 60 Hz	

#### Remarks:

a. Model GPx Series controllers larger than 190 FLA require the inclusion of a fan(s) inside the enclosure to maintain the optional 131°F (55°C) maximum ambient temperature rating. This modification is only Approved when installed by the manufacturer.

### Details

<b>Category</b>	Fire Pump Controllers, Full Service Electric Motors
<b>Class of Work</b>	1321 - Fire Pump Ctlrs, ElecMtr
<b>Certification Type</b>	FM Approved
<b>Listing Country</b>	Canada
<b>Certificate Number</b>	FM24FPUS0016

Fire Pump Components | Fire Pump Controllers | **Fire Pump Controllers, Full Service Electric Motors**

## Model GPx+GP

# FM Approvals

Fire Pump Components | Fire Pump Controllers | **Fire Pump Controllers, Full Service Electric Motors**

## Model GPxFM

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Fire Pump Components | Fire Pump Controllers | **Fire Pump Controllers, Full Service Electric Motors**

## Model GPXe

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