

Electric Fire Pump Controllers With Transfer Switch Option

The automatic transfer switch option may be added to any FD type fire pump controller whenever automatic transfer from normal to alternate power is required. The Automatic Transfer Switch and Fire Pump Controller are each mounted in separate enclosures to form one unit and interwired.



FT Series

Types

- FT20 - Limited Service
- FT30 - Across The Line
- FT40 - Part Winding
- FT50 - Primary Resistor
- FT60 - Auto Transformer
- FT70/80 - Wye (Star) Delta Open/Close
- FT90 - Soft Start
- FTC Series

Standard Features

- Electrically and Mechanically Interlocked
- Test Switch to simulate loss of power
- Voltage & Frequency Sensing
- Manual Operation—transfer and retransfer under all load conditions
- Remote alarm contacts for indication of Connected to Normal power, Connected to Alternate Source, Isolation Switch Open, and Normal Power Failure
- Automatic transfer from Normal to Alternate source when Voltage drops to 85% of normal, Loss of any phase and Phase Reversal

Microprocessor Based

- LED Status Indicators
Source 1 Available Source 1 Connected
Source 2 Available Source 2 Connected

Languages

- English, French, Spanish

Enclosures

- NEMA 2 - Standard
- NEMA 3R, 4, 4X, 12
(Specials upon request)

Options

- Alarm Bell
- Extra Contacts: Pump Run, AC Power Failure, Phase Reversal
- Low Suction Pressure Switch
- High/Intermediate Withstand Rating
- Space Heater

FT20 Technical Data & Specifications

Voltage (V)	Motor (Hp)	Withstand Rating (kA)		Dimensions			Weight		With LMR Option				
		Std	Int	Height	Width	Depth	lbs	Kg	Height	Width	Depth	lbs	Kg
200-208	5-30	25	65	63 (1600)	48.25 (1226)	9 (229)	555	222	63 (1600)	53 (1399)	9 (229)	610	277
220-240	5-30	25	65	63 (1600)	48.25 (1226)	9 (229)	555	222	63 (1600)	53 (1399)	9 (229)	610	277
380-415	5-30	25	65	63 (1600)	48.25 (1226)	9 (229)	555	222	63 (1600)	53 (1399)	9 (229)	610	277
440-480	5-30	25	65	63 (1600)	48.25 (1226)	9 (229)	555	222	63 (1600)	53 (1399)	9 (229)	610	277
550-600	5-30	18	25	63 (1600)	48.25 (1226)	9 (229)	555	222	63 (1600)	53 (1399)	9 (229)	610	277
230V S/P	5-15	10	65	63 (1600)	48.25 (1226)	9 (229)	555	222	63 (1600)	53 (1399)	9 (229)	610	277

FT30 Technical Data & Specifications

Voltage (V)	Motor (Hp)	Dimensions			Withstand Rating (kA)			Weight	
		Height	Width	Depth	Std	Int	High	lbs	Kg
200-208	5-40	63 (1600)	53 (1346)	9 (229)	100	150	200	610	277
	50-100	77 (1958)	74 (1880)	16 (406)		990	449		
	125-200	77 (1958)	80 (2032)	16 (406)		1085	492		
220-240	5-50	63 (1600)	53 (1346)	9 (229)	100	150	200	610	277
	50-100	77 (1958)	74 (1880)	16 (406)		990	449		
	125-200	77 (1958)	80 (2032)	16 (406)		1085	492		
380-415	5-75	63 (1600)	53 (1346)	9 (229)	100	150	200	610	277
	50-100	77 (1958)	74 (1880)	16 (406)		990	449		
	125-200	77 (1958)	80 (2032)	16 (406)		1085	492		
440-480	5-100	63 (1600)	53 (1346)	9 (229)	100	150	200	610	277
	50-100	77 (1958)	74 (1880)	16 (406)		990	449		
	125-200	77 (1958)	80 (2032)	16 (406)		1085	492		
550-600	5-100	63 (1600)	53 (1346)	9 (229)	25	100	200	610	277
	125-300	77 (1958)	74 (1880)	16 (406)		990	449		
	350-400	77 (1958)	80 (2032)	16 (406)		1085	492		

FT40/FT70 Technical Data & Specifications

Voltage (V)	Motor (Hp)	Dimensions			Withstand Rating (kA)			FT40 Weight		FT70 Weight	
		Height	Width	Depth	Std	Int	High	lbs	Kg	lbs	Kg
200-208	5-40	63 (1600)	53 (1346)	9 (229)	100	150	200	655	297	655	297
	50-100	77 (1958)	74 (1880)	16 (406)		1005	456	1030	467		
	125-200	77 (1958)	80 (2032)	16 (406)		1110	503	1135	515		
220-240	5-50	63 (1600)	53 (1346)	9 (229)	100	150	200	655	297	655	297
	60-125	77 (1958)	74 (1880)	16 (406)		1005	456	1030	467		
	150-200	77 (1958)	80 (2032)	16 (406)		1110	503	1135	515		
380-415	5-75	63 (1600)	53 (1346)	9 (229)	100	150	200	655	297	655	297
	100-200	77 (1958)	74 (1880)	16 (406)		1005	456	1030	467		
	250-400	77 (1958)	80 (2032)	16 (406)		1110	503	1135	515		
440-480	5-100	63 (1600)	53 (1346)	9 (229)	100	150	200	655	297	655	297
	125-250	77 (1958)	74 (1880)	16 (406)		1005	456	1030	467		
	300-400	77 (1958)	80 (2032)	16 (406)		1110	503	1135	515		
550-600	5-100	63 (1600)	53 (1346)	9 (229)	25	100	200	655	297	655	297
	125-300	77 (1958)	74 (1880)	16 (406)		1005	456	1030	467		
	350-400	77 (1958)	80 (2032)	16 (406)		1110	503	1135	515		

Ordering Guidelines:

FT - - - - -

① - FT = Transfer Switch Combination

20 40 60 80
 30 50 70 90

② - Horsepower

5 25 75 250
 7.5 30 100 300
 10 40 125 350
 15 50 150 400
 20 60 200

③ - Voltage

A = 200-208 V
 B = 220-240 V
 C = 380-415 V @ 50 Hz
 D = 440-480 V
 E = 550-600 V
 F = 416 V @ 60 Hz

④ - Language

L1 - English
 L2 - French
 L5 - Spanish

FT50 Technical Data & Specifications

Voltage (V)	Motor (Hp)	Dimensions			Withstand Rating (kA)			Weight	
		Height	Width	Depth	Std	Int	High	lbs	Kg
200-208	5-40	63 (1600)	68 (1727)	9 (229)	100	150	200	610	277
	50-150	77 (1956)	80 (2032)	16 (406)		Consult Factory	1190	540	
220-240	5-50	63 (1600)	68 (1727)	9 (229)	100	150	200	610	277
	60-200	77 (1956)	80 (2032)	16 (406)		Consult Factory	1190	540	
380-415	5-75	63 (1600)	68 (1727)	9 (229)	100	150	200	610	277
	100-300	77 (1956)	80 (2032)	16 (406)		CF	CF	1190	540
440-480	5-100	63 (1600)	68 (1727)	9 (229)	100	150	200	610	277
	125-400	77 (1956)	80 (2032)	16 (406)		Consult Factory	1190	540	
550-600	5-100	63 (1600)	68 (1727)	9 (229)	25	150	200	610	277
	125-400	77 (1956)	80 (2032)	16 (406)		35	CF	1190	540

FT60 Technical Data & Specifications

Voltage (V)	Motor (Hp)	Dimensions			Withstand Rating (kA)			Weight	
		Height	Width	Depth	Std	Int	High	lbs	Kg
200-208	5-40	63 (1600)	58 (1473)	9 (229)	100	150	200	700	318
	50-150	77 (1956)	80 (2032)	16 (406)		Consult Factory	1190	540	
220-240	5-50	63 (1600)	58 (1473)	9 (229)	100	150	200	700	318
	60-200	77 (1956)	80 (2032)	16 (406)		Consult Factory	1190	540	
380-415	5-75	63 (1600)	58 (1473)	9 (229)	100	150	200	700	318
	100-300	77 (1956)	80 (2032)	16 (406)		CF	CF	1190	540
440-480	5-100	63 (1600)	58 (1473)	9 (229)	100	150	200	700	318
	125-400	77 (1956)	80 (2032)	16 (406)		Consult Factory	1190	540	
550-600	5-100	63 (1600)	58 (1473)	9 (229)	25	150	200	700	318
	125-400	77 (1956)	80 (2032)	16 (406)		35	CF	1190	540

FT80 Technical Data & Specifications

Voltage (V)	Motor (Hp)	Dimensions			Withstand Rating (kA)			Weight	
		Height	Width	Depth	Std	Int	High	lbs	Kg
200-208	5-40	63 (1600)	73 (1854)	9 (229)	100	150	200	805	365
	50-200	77 (1956)	80 (2032)	16 (406)		Consult Factory	1190	540	
220-240	5-50	63 (1600)	73 (1854)	9 (229)	100	150	200	805	365
	60-200	77 (1956)	80 (2032)	16 (406)		Consult Factory	1190	540	
380-415	5-75	63 (1600)	73 (1854)	9 (229)	100	150	200	805	365
	100-400	77 (1956)	80 (2032)	16 (406)		CF	CF	1190	540
440-480	5-100	63 (1600)	73 (1854)	9 (229)	100	150	200	805	365
	125-400	77 (1956)	80 (2032)	16 (406)		Consult Factory	1190	540	
550-600	5-100	63 (1600)	73 (1854)	9 (229)	25	100	200	805	365
	125-400	77 (1956)	80 (2032)	16 (406)		35	CF	1190	540

FT90 Technical Data & Specifications

Voltage (V)	Motor (Hp)	Dimensions			Withstand Rating (kA)			Weight	
		Height	Width	Depth	Std	Int	High	lbs	Kg
200-208	5-40	77 (1956)	74 (1880)	16 (406)	100	150	200	1155	524
	50-150	77 (1956)	80 (2032)	16 (406)		Consult Factory	1205	547	
220-240	5-50	77 (1956)	74 (1880)	16 (406)	100	150	200	1155	524
	60-200	77 (1956)	80 (2032)	16 (406)		Consult Factory	1205	547	
380-415	5-75	77 (1956)	74 (1880)	16 (406)	100	150	200	1155	524
	100-350	77 (1956)	80 (2032)	16 (406)		CF	CF	1205	547
440-480	5-100	77 (1956)	74 (1880)	16 (406)	100	150	200	1155	524
	125-400	77 (1956)	80 (2032)	16 (406)		Consult Factory	1205	547	
550-600	5-125	77 (1956)	74 (1880)	16 (406)	25	100	200	1155	524
	150-400	77 (1956)	80 (2032)	16 (406)		35	CF	1205	547

Options

- B Alarm Bell
- C1 Extra Contacts - "Pump Run" (one N.O. std.)
- C2 Extra Contacts - "AC Power Failure" (two sets std.)
- C3 Extra Contacts - "Phase Reversal" (two sets std.)
- E1 NEMA 3R - Raintight Enclosure
- E2 NEMA 4 - Watertight Enclosure
- E5 NEMA 4X - Stainless Steel Enclosure
- E3 NEMA 12 - Industrial Dust-tight Enclosure
- H High Withstand Rating - (refer to tables)
- I Intermediate Withstand Rating - (refer to tables)
- P7 Low Suction Pressure Switch c/w Pilot Light
- P8 Low Suction Shutdown (Requires P7)
- R1 Space Heater - (120V)
- R2 Space Heater - c/w Thermostat
- R3 Space Heater - c/w Humidistat



Fire Pump Controller Family

- FT20 Limited Service
- FT30 Across-the-Line
- FT40 Part Winding
- FT50 Primary Resistor
- FT60 Autotransformer
- FT70 Wye-Delta Open Transition
- FT80 Wye-Delta Closed Transition
- FT90 Soft Start
- FTC Series Compact Controllers