



TORNATECH

Project: _____

Customer: _____

Engineer: _____

Pump Manufacturer: _____

Technical Data Submittal Document

Model OPD

UL Listed Disconnecting Means for UL Listed and FM Approved
Electric Fire Pump Applications



Contents:

Data Sheets

Dimensional Data

Wiring Schematics

Field Connections

Note: The drawings included in this package are for controllers covered under our standard offering. Actual AS BUILT drawings may differ from what is shown in this package.

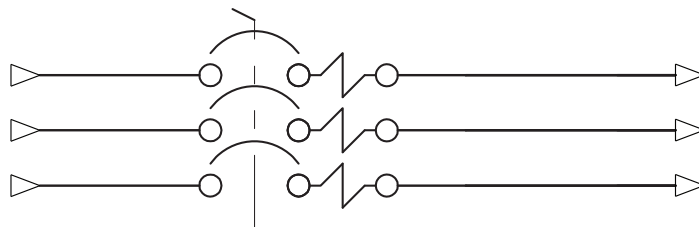


August 2018



From

- ☐ Normal Power
- ☐ Alternate Power



To Electric Fire Pump Controller

600V / 3Ph / 60Hz				
	HP	FLA*	6xFLA	Ampere Rating (A)
<input type="checkbox"/>	5	6	36	40
<input type="checkbox"/>	7.5	9	54	40
<input type="checkbox"/>	10	11	66	40
<input type="checkbox"/>	15	17	102	100
<input type="checkbox"/>	20	22	132	150
<input type="checkbox"/>	25	27	162	150
<input type="checkbox"/>	30	32	192	150
<input type="checkbox"/>	40	41	246	125
<input type="checkbox"/>	50	52	312	150
<input type="checkbox"/>	60	62	372	250
<input type="checkbox"/>	75	77	462	250
<input type="checkbox"/>	100	99	594	400
<input type="checkbox"/>	125	125	750	400
<input type="checkbox"/>	150	144	864	600
<input type="checkbox"/>	200	192	1152	600
<input type="checkbox"/>	250	242	1452	800
<input type="checkbox"/>	300	289	1734	1200
<input type="checkbox"/>	350	336	2016	1200
<input type="checkbox"/>	400	382	2292	1200
<input type="checkbox"/>	450	412	2472	1200
<input type="checkbox"/>	500	472	2832	1600

* Table 2 from CSA C22.2 NO. 263-09 and UL218





Standards and Listing	Built to standards (latest editions): <ul style="list-style-type: none">• NFPA70 (NEC): 695.4(B)(2)(a)(2) and NFPA70 (NEC): 695.3(F)(2)• NFPA20 9.2.3.4.1
	Listing: <ul style="list-style-type: none">• Underwriters Laboratory (UL)
Overcurrent Protection Device	<ul style="list-style-type: none">- Selective short circuit protection- Magnetic only - non-thermal- Instantaneous trip setting (Factory set non field adjustable)- No time delay element- Selection based on:<ul style="list-style-type: none">▪ The overcurrent protective device shall not open within 2 minutes at 600 percent of the full-load current of the fire pump motor(s).▪ The overcurrent protective device shall not open with a re-start transient of 24 times the full-load current of the fire pump motor(s).▪ The overcurrent protective device shall not open within 10 minutes at 300 percent of the full-load current of the fire pump motor(s)▪ The trip point for circuit breakers shall not be field adjustable
Enclosure	Protection Rating NEMA 2
	Paint Specifications <ul style="list-style-type: none">• Red RAL 3002• Powder coating• Glossy textured finish
External Operator	Flange mounted disconnect handle lockable in the ON (closed) position as per NFPA70 (NEC) 695.4(B)(3)(a)(2)
Service Entrance Rating	Suitable as service entrance equipment
Markings	Disconnect markings as per NFPA70 (NEC) 695.4(B)(3)(c)

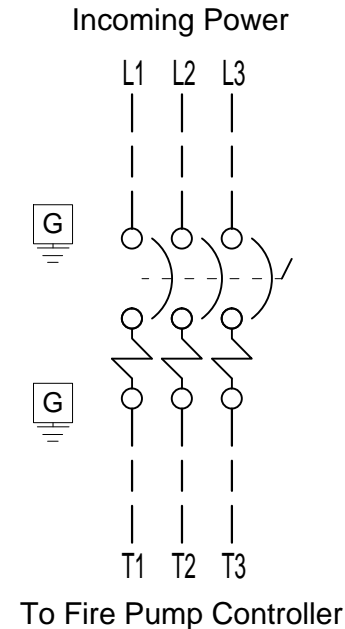
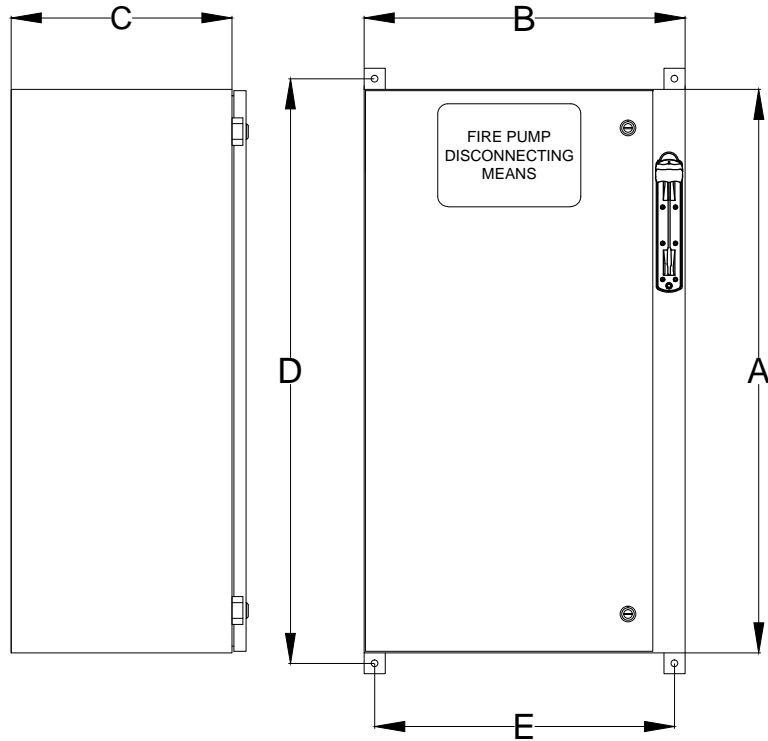
Model:OPD

UL Listed Disconnecting Means for Electric Fire Pump Applications

Terminal Size and Dimensions

Built to the latest edition of the NFPA20 & NFPA70

			
REV.	DESCRIPTION	DD/MM/YY	Drawing No.
2	Modified Title	28/07/16	OPD-WS500 / E
3	Modified Dimensions	16/01/17	
4	Revised logo	18/06/18	



Notes:

- NEMA 2 Assembly
- Paint : Textured Red RAL 3002.
- All Dimensions are in Inches.
- Use Watertight Conduit and Connector Only.
- Protect Equipment Against Drilling Chips.

Terminals (L1,L2,L3,T1,T2,T3)								Wire (Lug) Size (Copper Only)	Torque	Ground (Lug) Size (Copper Only)	Dimensions	Bending Space
Maximum Motor Horsepower											AxBxCxDxE	
200V	208V	220V	230V	240V	380-416V	440-480V	575-600V					
5-10HP	5-10HP	5-15HP	5-15HP	5-15HP	5-25HP	5-30HP	5-40HP	8-1/0 AWG	4-8 Nm	6 AWG	22 x 12 x 11 x 23½ x 10½	5"
15-25HP	15-25HP	20-30HP	20-30HP	20-30HP	30-50HP	40-60HP	50-75HP	4-1/0 AWG	30 Nm	4 AWG	26 x 14 x 11 x 27½ x 12½	5"
30-40HP	30-40HP	40-50HP	40-50HP	40-50HP	60-75HP	75-100HP	100-125HP	1/0 AWG-250 MCM	34 Nm	4 AWG	28 x 16 x 11 x 29½ x 14½	8"
50-60HP	50-60HP	60-75HP	60-75HP	60-75HP	100-125HP	125-150HP	150-200HP	3/0 AWG-250 MCM	34 Nm	4 AWG	28 x 16 x 11 x 29½ x 14½	8"
75HP	75HP	100HP	100HP	100HP	150HP	200HP	250HP	300-500 MCM	43 Nm	4 AWG	40 x 18 x 11 x 41½ x 16½	12"
100-150HP	125-150HP	125-150HP	125-150HP	125-150HP	200-250HP	250-350HP	300-450HP	2x(4/0 AWG-500 MCM)	42 Nm	3/0 AWG	40 x 18 x 11 x 41½ x 16½	12"
-	200HP	200HP	200HP	200HP	300-350HP	400-450HP	500HP	TBD Consult Factory	TBD Consult Factory	TBD Consult Factory	TBD Consult Factory	TBD Consult Factory
-	-	250HP	250HP	250HP	400-450HP	500HP	-	TBD Consult Factory	TBD Consult Factory	TBD Consult Factory	TBD Consult Factory	TBD Consult Factory

Drawing for information only.
Manufacturer reserves the right to modify this drawing without notice.
Contact manufacturer for "As Built" drawing.