

UL / FM CERTIFIED VARIABLE FREQUENCY DRIVE FIRE PUMP CONTROLLER

MODEL: NFY-VFD



NAFFCO Variable Frequency Drive Controllers are listed by Underwriters Laboratories (UL file number EX15064), in accordance with UL 218 (Standard for Fire Pump Controller), UL 508 (Standard for Industrial Control Equipment), NFPA 20 (National Fire Protection Association Standard for the Installation of Stationary Pumps for Fire Protection), NFPA 70 (National Electric Code) and applicable NEMA standards. Also approved by FM approvals (Factory Mutual), in accordance with FM standard 1321 / 1323 (Approval Standard for Controllers for Electric Motor Driven and Diesel Engine Driven Fire Pumps). This controller is completely wired, assembled, programmed and tested at the factory before shipment, and ready for immediate installation.

STARTING TYPE OPTIONS:

NFY-VFD-DOM1 - VARIABLE SPEED W/ DIRECT ON LINE

NFY-VFD-SSM1 - VARIABLE SPEED W/ SOFT STARTER

ENCLOSURE OPTIONS: NEMA 4, NEMA 4x, NEMA 12

RATING

Motor Power (HP)	Rated Voltage (V)	Frequency (Hz)	Short Circuit Rating (KA)
15	230 (FM) 380 / 415 (UL & FM)	50 / 60	100
20			
25			
30			
40			
50			
60			
75			
100			
125			
150			
200			
250			
300			
350			
400			

- Fixed stable controlled pressure from no flow till full flow, therefore reduce or eliminating the need for PRVs, and drain risers.
- Eliminate the need for NFPA 25 quarterly testing for PRVs, and so more reliable system.
- Significant Power Saving since motor is not running at full speed.
- When used with soft starter the soft start and soft stop will considerably reduce the mechanical stress over couplings, shafts etc.
- Eliminate water hammer phenomena.
- Reduce the size of power supply (Genset or Transformer).
- Maintenance costs can be lowered, since lower operating speeds result in the reduction of pump wear, particularly on bearings and seals & longer life for motors.
- Ramp-time can be adjusted for controlled ramp-up speed and this can eliminate the problems of water hammer and excess power draw on start-up, and reduce or avoid flow or pressure surges.