

Variable speed pressure maintenance controller with built-in pressure transducer. Designed to automatically start, stop, and smoothly regulate the discharge pressure of pump motor assemblies ranging from 1/3 to 20 hp. They are typically used in fire pump systems.



Standard Features

- Variable Frequency Drive
- Interfaces with Master fire pump controllers
- Backlit 16 character, 2 row display shows
 - PSI or BAR
 - Motor Run Hours
 - Number of starts
 - Number of starts in the last 24 hours
 - Start and Reset settings
 - Minimum run timer setting
 - Restart timer setting
 - Excessive starting alarm setting
 - Overpressure alarm and shutdown setting
- Menu navigation buttons
- 300 psi transducer and brass fittings
- NEMA type 2 gray enclosure (HMI inside)
- Manual Motor Protector

Additional Features

- Stops by frequency or fixed timeout
- Delayed start setting
- Visual Running indication
- Visual Excessive starting alarm
- Visual Overpressure alarm and shutdown
- Visual Failure to Start alarm
- Lock settings jumper

Modification Codes

AUD Audible alarm with silence switch	H1 Space heater (includes 50 va transformer)
A1 Pump run contacts (one NO and one NC)	H2 Space heater and thermostat (includes 50 va transformer)
A2 Pump run contacts (two NO and two NC)	H3 Space heater and humidistat (includes 50 va transformer)
A3 Power failure contacts (one NO and one NC)	L1 Pump Running LED pilot light
A4 Power failure contacts (one NO and one NC)	L2 Power On LED pilot light
C1 Circuit breaker, 18 kA at 240, 14 kA at 600	L5 Failure to Start LED pilot light
DMD Demand relay contacts (one NO and NC)	LR 5% Line reactor
ESR Excessive Start contacts (one NO and on NC, add A for light)	MP MMP closed contact (one NC)
E3R NEMA type 3R, raintight enclosure (HMI inside)	PM Phase failure monitor
E12 NEMA type 12, dusttight enclosure (HMI inside)	RA External overload reset
E4 NEMA type 4, watertight enclosure (HMI inside)	S1 Service entrance rating
E4XB NEMA type 4X, 304 SS, watertight enclosure (HMI inside)	SOA Switch Off contact (one NO)
E4XC NEMA type 4X, 316 SS, watertight enclosure (HMI inside)	TR Trouble contacts (one NO and one NC, add A for light)
F1 Failure to start contacts (one NO and one NC)	W1 316 SS wetted parts
FF Fan and filter (7.5 hp and above)	W7 500 psi pressurized wet parts

Model Number Construction

Basic Model	Horsepower	Phase	Voltage		Modifications
PMCVE	1/3-20 (Max HP varies with voltage)	3	20=200-208	39=380/60	AUD, A1, A2, A3, A4, C1, DMD, ESR, ESRA, E3R, E12, E4, E4XB, E4XC, F1, FF, H1, H2, H3, L1, L2, L5, LR, MP, PM, RA, S1, SOA, TR, TRA, W1, W7
			22=220/50	40=400/50	
			23=230 (1 or 3ph)	41=415/50	
			38=380/50	46=460	

Shipping Information

Shipping carton measures 28-1/2 inches (724 mm) x 17-1/2 inches (445 mm) x 12 inches (305 mm). The average packed controller weighs 45 lbs (20.5 kg).