

Ultima Pump Controller (Variable Frequency Drive)

Description

C.R.I. *Ultima* Pump controller is yet another product from the house of C.R.I. having more than 5 decades of immense experience in pumping solutions. *Ultima* pump controllers are basically variable frequency drives that gives complete protection to the pump against overloading, under loading, unbalanced voltages, dry run, phase reversal, phase failures etc. It monitors the pressure & flow rate within the system and regulates the pump speed to maintain the pressure level as per preset values. Hence both protection & desired performance can be obtained using this device. It is designed to connect to the discharge pipe using a 5-Way connector & accessories like pressure transmitter, pressure gauge are required for installation. Few models are designed to mount directly on the motor.

Specification

Power Range	1Ph Input - 1Ph Output - 110V : 0.75 - 2.2kW - 220V : 0.75 - 4kW 1Ph Input - 3Ph Output - 220V : 0.75 - 5.5kW 3Ph Input - 3Ph Output - 380V : 0.75 - 45kW
Output Voltage Range	0 to Input Voltage (Adjustable)
Frequency Range	0.1 to 400 Hz
Output Frequency Tolerance	0.1Hz
Operating Temperature	-10 to 40°C
Vibration	<0.5G
Humidity	0.95% Relative Humidity (Non-condensing)
Display	Frequency/Current/Speed/Voltage/Pressure

Features

- Suitable for individual pump operation.
- Effective energy saving (Up to 50%).
- Easy to install.
- IP55 protection.
- Maintains constant pressure.
- Very sensitive towards preset pressure levels.
- Provides complete protection such as overload, Dry run, short circuit, etc.,
- Digital display to monitor voltage, current, speed, temperature & fault indications.



Technical Details

Type	Model	Rated Power (kW)	Input Voltage	Output Voltage	Rated Amps (A)	Dimension (L x B x H) mm	Weight kg
1Ph Input 1Ph Output	VFS-07A-1	0.75	110V	0 - 110V	11	250 x 160 x 195	2.7
	VFS-15A-1	1.5	110V	0 - 110V	20	250 x 160 x 195	2.7
	VFS-22A-1	2.2	110V	0 - 110V	28	250 x 160 x 195	2.7
1Ph Input 1Ph Output	VFS-07D-1	0.75	220V	0 - 220V	5.3	250 x 160 x 195	2.7
	VFS-15D-1	1.5	220V	0 - 220V	10	250 x 160 x 195	2.7
	VFS-22D-1	2.2	220V	0 - 220V	13	250 x 160 x 195	2.7
	VFS-30D-1	3	220V	0 - 220V	18	158 x 247 x 170	8
	VFS-40D-1	4	220V	0 - 220V	24	158 x 247 x 170	8
1Ph Input 3Ph Output	VFS-07D-2	0.75	220V	0 - 220V	4.1	250 x 160 x 195	2.7
	VFS-15D-2	1.5	220V	0 - 220V	7	250 x 160 x 195	2.7
	VFS-22D-2	2.2	220V	0 - 220V	10	250 x 160 x 195	2.7
	VFS-30D-2	3	220V	0 - 220V	13	158 x 247 x 170	8
	VFS-40D-2	4	220V	0 - 220V	18	158 x 247 x 170	8
3Ph Input 3Ph Output	VFS-55D-2	5.5	220V	0 - 220V	24	158 x 247 x 170	8
	VFS-07I-3	0.75	380V	0 - 380V	2.5	250 x 160 x 195	2.7
	VFS-15I-3	1.5	380V	0 - 380V	3.7	250 x 160 x 195	2.7
	VFS-22I-3	2.2	380V	0 - 380V	5.0	250 x 160 x 195	2.7
	VFS-30I-3	3	380V	0 - 380V	6.5	250 x 160 x 195	2.7
	VFS-40I-3	4	380V	0 - 380V	9.5	158 x 247 x 170	8
	VFS-55I-3	5.5	380V	0 - 380V	10.5	158 x 247 x 170	8
	VFS-75I-3	7.5	380V	0 - 380V	17.5	158 x 247 x 170	8
	VFS-110I-3	11	380V	0 - 380V	24	218 x 320 x 203	8
	VFS-150I-3	15	380V	0 - 380V	33	218 x 320 x 203	8
	VFS-185I-3	18.5	380V	0 - 380V	40	218 x 320 x 203	8
	VFS-220I-3	22	380V	0 - 380V	46	285 x 475 x 240	24
	VFS-300I-3	30	380V	0 - 380V	58	285 x 475 x 240	24
	VFS-370I-3	37	380V	0 - 380V	80	285 x 475 x 240	24
	VFS-450I-3	45	380V	0 - 380V	91	315 x 645 x 310	33

Note : 0.75 kW & 1.5 kW are Horizontal Type and rest are vertical type

Accessories

Five Way Connector

Available Size

- DN-25 (1 Inch)
- DN-40 (1½ Inch)
- DN-50 (2 Inch)



Pressure Transmitter

(4 - 20mA, 0 - 10bar)



In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

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