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Find the *Fuji Electric FVR001C9S-2UX* at our website: *Click HERE*

**FVR-C9S ADJUSTABLE FREQUENCY DRIVES**

FUJI ELECTRIC
*The Drive That Powers*

# *FVR-C9S*

## *Adjustable Frequency Drive*




*FVR-C9S .25 Hp shown in actual size.*

*Space; A precious commodity in today's high-tech machinery and applications. The FVR-C9S AC drives, manufactured by Fuji Electric and marketed by GE Fuji Electric, are fully equipped with over 30 configurable motor control functions in a light-weight, compact housing. The FVR-C9S series is designed for use in small machines such as fans, conveyors, as well as other machines in which motor speeds can vary.*

*The FVR-C9S series is available in seven models, from 1/8 to 5 Hp, allowing you to select the model that best suits your application. The FVR-C9S only requires power and motor connections to the built-in terminal block for use. Easy-to-follow programming and output frequency settings can be set and adjusted using the keypad panel. Additionally, each unit has a standard frequency setting POT mounted on the face of the drive for quick adjustments. It's that simple.*

***FVR-C9S drives can be used even in areas where there are noise-level restrictions. In addition, they are UL and CSA rated.***

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# FVR-C9S Specifications

## Environmental Conditions:

| | |
|---|---|
| *Installation location:* | Do not install in a dusty location or expose to corrosive gases, oil mist, direct sunlight. Indoor use only. |
| *Ambient temperature:* | -10 to +50°C |
| *Ambient humidity:* | 20 to 90% RH (non-condensing) |
| *Vibration:* | 5.9 m/s² (0.6G) or less |
| *Storage temperature:* | -25 to +65°C |

## Input:

| | |
|---|---|
| *Power System:* | 220-240 VAC, single phase, 50-60 Hz +10% to -10% V<br>200-230 VAC, three phase, 50-60 Hz +10% to -15% V |

## Output Frequency:

| | |
|---|---|
| *Setting:* | Maximum frequency: 50 to 120 Hz (in 1 Hz steps)<br>Base frequency: 50 to 120 Hz (in 1 Hz steps)<br>Starting frequency: 1 to 6 Hz (in 1 Hz steps) |
| *Accuracy (Stability):* | Digital setting: ±0.01% of maximum frequency (at -10 to +50°C)<br>Analog setting: ±1.0% of maximum frequency (at 25± 10°C) |
| *Setting resolution:* | Digital setting: 0.1 Hz (99.9 Hz or less), 1 Hz (100 to 120 Hz)<br>Analog setting: 1/256 of maximum frequency (i.e. 0.25 Hz for 60 Hz 0.5 Hz for 120 Hz) |

## Control:

| | |
|---|---|
| *Control Method:* | Sinusoidal PWM control (low noise using high frequency carrier) |
| *Operation Method:* | Keypad operation: RUN or STOP key<br>Input signal: Forward/Reverse command, Coast-to-stop command.<br>Trip command (external alarm). Alarm reset |
| *Frequency Setting:* | Keypad operation: INC (^) or DEC (v) keys<br>Potentiometer: 1 to 5 kΩ<br>Analog input: 0 to 5 VDC, 0 to 10 VDC (Zin=22 kΩ), 4 to 20 mA DC (optional OPC-C9S-C1 is required)<br>Multistep frequency: Up to 4 different frequencies can be selected using terminal BX and THR |
| *Indication:* | Running: Digital indication of output frequency or output current (3-digit LED)<br>Tripped: Cause of trip by code (3-digit LED)<br>Illuminated LED, under any condition, indicates capacitor is charged. |
| *Acceleration/deceleration time:* | 0 to 60s (independently adjustable acceleration and deceleration) |
| *Voltage/frequency (V/F) characteristic:* | Adjustable maximum frequency and base frequency. |
| *Restart after momentary power failure:* | The inverter restarts without causing the motor to stop if the automatic restart is specified for the inverter. |
| *Frequency limiter:* | High and low limits can be set for the output frequency. |
| *Bias frequency:* | The bias frequency can be set to an analog reference frequency. |
| *Frequency jump control:* | Jump frequency (3 points) and jump hysteresis width (1 point) can be set. |
| *Torque boost:* | 32-step selectable |
| *Starting torque:* | 150% or more |

## Protection:

| | |
|---|---|
| *Overload:* | Detects overcurrent to stop inverter |
| *Instantaneous overcurrent:* | Detects output circuit grounding (when starting), short-circuit to protect inverter. |
| *Overvoltage:* | Detects DC link circuit overvoltage to stop inverter |
| *Overheating:* | Detects abnormal temperature of cooling fin to stop inverter |
| *Motor protection:* | Electronic thermal overload detector |
| *Alarm output:* | Outputs a relay contact signal when any protective function is activated. (SPDT contact, 250 VAC, 0.3 A, cosø = 0.3) |

## Options:

| | |
|---|---|
| *Standard:* | DIN-Rail mounting kit, EMI filter and Parameter copy unit |

## Ordering Information:

| *Hp* | *Amps* | *Stock No.* | *Model No.* | *DxWxH* | *List Price* |
|---|---|---|---|---|---|
| *230 VAC, 1 Phase** | | | | | |
| 0.12 | .66 | D5568 | FVRF12C9S-7UX | 3.3" x 3.1" x 4.7" | $340.00 |
| 0.25 | 1.2 | D5569 | FVRF25C9S-7UX | 3.5" x 3.1" x 4.7" | $345.00 |
| 0.50 | 2.1 | D5570 | FVRF50C9S-7UX | 3.9" x 3.1" x 4.7" | $375.00 |
| 1.00 | 3.7 | D5571 | FVR001C9S-7UX | 5.5" x 3.1" x 4.7" | $395.00 |
| 2.00 | 6.4 | D5572 | FVR002C9S-7UX | 5.5" x 4.3" x 5.1" | $440.00 |
| 230 VAC, 3 Phase | | | | | |
| 0.12 | .70 | D5573 | FVRF12C9S-2UX | 2.4" x 3.1" x 4.7" | $270.00 |
| 0.25 | 1.4 | D5574 | FVRF25C9S-2UX | 2.6" x 3.1" x 4.7" | $275.00 |
| 0.50 | 2.5 | D5575 | FVRF50C9S-2UX | 3.0" x 3.1" x 4.7" | $305.00 |
| 1.00 | 4.0 | D5576 | FVR001C9S-2UX | 3.9" x 3.1" x 4.7" | $360.00 |
| 2.00 | 7.0 | D5577 | FVR002C9S-2UX | 5.1" x 4.3" x 5.1" | $475.00 |
| 3.00 | 10.0 | D5578 | FVR003C9S-2UX | 5.5" x 4.3" x 5.1" | $520.00 |
| 5.00 | 16.5 | D5579 | FVR005C9S-2UX | 5.4" x 5.5" x 7.1" | $665.00 |

** CE Rating applies to 230 VAC, 1 phase only.*

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The Drive That Powers

For more information call us at 1-800-543-6196

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