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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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Your Standard Drive Source

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 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) Base frequency: 50 to 120 Hz (in 1 Hz steps) Starting frequency: 1 to 6 Hz (in 1 Hz steps)
Accuracy (Stability):	Digital setting: ±0.01% of maximum frequency (at -10 to +50°C) 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) 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 Input signal: Forward/Reverse command, Coast-to-stop command. Trip command (external alarm). Alarm reset
Frequency Setting:	Keypad operation: INC (^) or DEC (v) keys Potentiometer: 1 to 5 kΩ Analog input: 0 to 5 VDC, 0 to 10 VDC (Zin=22 kΩ), 4 to 20 mA DC (optional OPC-C9S-C1 is required) 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) Tripped: Cause of trip by code (3-digit LED) 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.*

FUJI ELECTRIC
The Drive That Powers

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

Internet Address: http://www.ge.com

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