

SDVC311-S、SDVC311-M

Variable Frequency Digital Controller
for Vibratory Feeder



Technical Data

Item	Range			Unit	Note
	Min	Typical	Max		
Input Voltage	85	220	250	V	AC RMS
Adjustable Output Voltage Range	0	---	260	V	Lower than 150% of Input Voltage
Voltage Adjustment Accuracy	1			V	
Voltage Regulation Accuracy	0	---	10	%	$\Delta V_{out}/\Delta V_{in}$
Adjustable Output Current Range	0	---	1.5	A	SDVC311-S
			3.0		SDVC311-M
Output Power	0	---	330	VA	SDVC311-S
			660		SDVC311-M
Output Frequency	40.0/5.0	---	400.0	Hz	
Frequency Adjustment Accuracy	0.1			Hz	
Output Waveform	Sine				
Soft Start Time	0	---	10	s	Default value: 0.5
On/Off Delay Time Range	0	---	20.0/99.9	s	Default value: 0.2
On/Off Delay Time Accuracy	0.1			s	
Overheat Protection Trigger Temperature	58	60	66	°C	
DC Control Output Current	0	---	400	mA	
DC Control Output Voltage	22	24	26	V	
Analog Control Signal	1~5/4~20			V/mA	Remote Speed Control signal
Digital Control Signal	24			V	Switching Signal
Adjustment Method	6			Button	
Standby Power Consumption	---	3	---	W	
Display Method	5			Digit	LED
Ambient Temperature	0	25	40	°C	No Condensation
Ambient Humidity	10	60	85	%	
Storage Ambient Temperature	-20	25	85	°C	

Note: "xxx/xxx" indicates "Traditional Parameter values / Modern Parameter values".

Model

SDVC311-S : 1.5A

SDVC311-M: 3.0A

Features

Frequency Adjustment: Output frequency of the controller can be manually adjusted to resonant frequency of the vibratory feeder to get smooth, quiet and energy-saving feed effect.

Automatic High Precision Voltage Regulation: The internal digital voltage regulation circuit can eliminate feed speed variation caused by mains voltage fluctuation.

Time Adjustable Soft Start/Shutdown: During startup or shutdown, the output voltage will gradually change to avoid sudden shake. Soft start/shutdown time can be digitally preset.

Switch Sensor ON/OFF Control: Adaptive switch sensor or PLC can be connected to turn on/off the controller.

Photoelectric Sensor ON/OFF Control: The CUH Intelligent Photoelectric Sensor can be connected to turn on/off the controller.

Remote Speed Control: Output Voltage of the controller can be adjusted remotely by an external potentiometer, a PLC, a 1-5V DC signal or a 4-20mA current signal.

DC Control Output: The controller can output low voltage DC power associated with ON/OFF Control of the controller to drive a solenoid or other external devices.

Keypad Lock: Lock all buttons on the keypad to prevent misoperation by pressing the ON/OFF button and hold for 2 seconds.

Overheat Protection: If internal temperature of the controller gets too high, the controller will stop its output to protect itself.

Overcurrent Protection: If output current exceeds its rated value, the controller will stop its output to protect itself and the load.

Over/Under-Voltage Protection: When the input voltage is too high/low, the power supply will be automatically turned off for self-protection.

Restorable Short Circuit Protection: If output of the controller is short-circuited, the controller will shut down its output to protect itself and the load. But the fuse inside will not be blown. So when there is no short circuit at the output side, the controller will work again after power on.

Dimensions & Weight

Dimensions: 190*53.6*94.5 (L*W*H, mm)

Weight: SDVC311-S: 560g (without accessory)

SDVC311-M: 610g (without accessory)

Standard Accessories



- Input Power Cable (1.5m)
- Output Power Cable (1.5m)

Remark: Input power cable can be customized to fit the socket in your country.

Optional Accessories



- Intelligent Photoelectric Sensor(1.5m)

Vibratory Feeder Controller Expert

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