ONRON Industrial Automation

Switch Mode Power Supply (15/30/60/90/120/180/240/480-W Models)

S8VS-12024

Image

Case model, Input: 100 to 240 VAC, Power rating 120 W, Output: 24 VDC, Terminal blocks (Screw terminal), Harmonic current emissions

Power rating120 WOutput voltage24 VDCRated input voltage100 to 240 VACConstructionCovered typeConnectionTerminal blocksTerminal typeScrew terminal		
Output voltage24 VDCRated input voltage100 to 240 VACConstructionCovered typeConnectionTerminal blocksTerminal typeScrew terminal	Power rating	120 W
Rated input voltage100 to 240 VACConstructionCovered typeConnectionTerminal blocksTerminal typeScrew terminal	Output voltage	24 VDC
Construction Covered type Connection Terminal blocks Terminal type Screw terminal	Rated input voltage	100 to 240 VAC
Connection Terminal blocks Terminal type Screw terminal	Construction	Covered type
Terminal type Screw terminal	Connection	Terminal blocks
	Terminal type	Screw terminal

Specifications

As of February 2, 2017

Print

Power rating		120 W
Output voltage 24 VDC		24 VDC
Efficiency		84% typ. (at 100 VAC input) 87% typ. (at 200 VAC input)
Input	Rated input voltage	100 to 240 VAC
	Allowable input voltage variable range	85 to 264 VAC 80 to 370 VDC
	Note at DC input	The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).
	Frequency	50/60Hz (47 to 63 Hz)
	Rated input curren	1.9 A max., 1.5 A typ. (at 100 VAC input) 1.1 A max., 0.71 A typ. (at 200 VAC input)
	Power factor	0.9 min.
	Leakage current	0.5 mA max. (at 100 VAC input) 1.0 mA max. (at 200 VAC input)
	Inrush current	17.5 A max., 14 A typ. (at 100 VAC input) 35 A max., 28 A typ. (at 200 VAC input)
Output	Rated output current	5 A
	Output voltage variable range	-10 to +15% (With V.ADJ)
	Ripple	60 mV max. (at rated input and output)
	Static input variation influence	0.5% max. (at 85 to 264 VAC input, 100% load)
	Static load variation influence	1.5% max. (rated input, 0 to 100% load)

550 ms typ. (at 100 VAC input)	
Start up time 430 ms typ. (at 100 VAC input)	
Hold time52 ms typ. (at 100 VAC input) 54 ms typ. (at 200 VAC input)	
Overload protection Yes, Automatic reset	
Overvoltage protection Yes, Shut off the input voltage and turn on the input again	
Series operation Yes (Up to 2 Power Supplies with external diode)	
Output indicator Yes (color: green)	
Output voltage indication No	
Output current indication No	
Additional functions Peak-hold current indication No	
Maintenance forecast output: No monitor	
Total run time monitor output: No indication: No	
Undervoltage alarm output: No indication: No	
Insulation Dielectric strength Between all input terminals and PE terminals: 2 kVAC for 1 min, Detection current: 20 mA Insulation Dielectric strength Between all input terminals and all output terminals/alarm output kVAC for 1 min, Detection current: 20 mA Between all output terminals/alarm outputs and all PE terminals: kVAC for 1 min, Detection current: 30 mA Between all output terminals and all alarm outputs: 500 VAC for min, Detection current: 20 mA	ts: 3 1
Insulation resistanceBetween all output terminals/alarm outputs and all input terminals terminals: 100 MΩ min., at 500 VDC	ls/PE
Vibration resistance10 to 55 Hz, 0.375 mm single amplitude in each 3 directions for hours	2
Shock resistance 150 m/s**2, in each 6 directions 3 times	
Ambient temperature -10 to 60°C (Operating)	
Ambient temperature (Storage) -25 to 65°C	
Ambient humidity25 to 85%(Operating)	
Ambient humidity (Storage)25 to 90%	
ReliabilityLife expectancy10 years (at rated input, a load rate of 50% load, under the temperature of 40 °C, standard mounting)	
Construction Covered type	
Connection Terminal blocks	
Connection Terminal blocks Terminal type Screw terminal	
Construction Connection Terminal blocks Terminal type Screw terminal Mounting DIN track mounting	
Construction Connection Terminal blocks Terminal type Screw terminal Mounting DIN track mounting Attachment Terminal block cover	



