

Ventilation block UB0002V1 of Control System SandRA Z200 line

Ventilation block UB0002V1 belongs to the SandRA Z200 family that represents an ideal solution for **conventional power industry and industry** as well. ZAT products excel in their safety and reliability and are a result of our more than **50 years** of experiences and operation on the market of automation devices.

The ventilation block ensures the flow of air through the rack using **2 fans**. It contains **internal electronics** for evaluating and signaling of power supply status and fan speed. The internal electronics also regulate the speed according to the air temperature, using a built-in temperature sensor. The **UB002V1 block** is designed for **19" rack**, however, **its width is 10"**, so it is necessary to adapt the width of the switchboard to this width.



- Design solution in 19" rack
- Block dimensions 252 x 265 x 71 mm
- Fan speed control according to inlet temperature
- 2 fan speed evaluation
- Internal diagnostics of fan operation
- Redundant input power supply
- Rated supply voltage 24V or 48V (18V to 60V)



Mechanical Parameters and Weight

Parameter	Specifications	Min.	Type	Max.	Units
Dimensions (W x H x D)			252 x 265 x 71		mm
Weight			1,9		kg

Electrical Parameters

Input Parameters of the Ventilation Block

Parameter	Specifications	Min.	Type	Max.	Units
Input voltage		18	24	60	V
Consumption with two fans	$U_{in}=18V$	170	242	280	mA
	$U_{in}=24V$	127	178	400	
	$U_{in}=35V$ (type 22°C)	88	134	320	
	$U_{in}=48V$	66	94	235	
	$U_{in}=60V$	55	76	139	

Note: Power supplies are at terminal block X1: pins 1, 2 and 3, 4

Parameters of Installed Fans

Parameter	Specifications	Min.	Type	Max.	Units
Number of fans			2		
Rated fan voltage			24		V
Working range of fans		12		24	V
Rated fan speed	SW parameterized	3400	4000	4600	RPM
Maximum fan power		2	5,1	5,5	W

Parameters of Output Logic Signals

Parameter	Specifications	Min.	Type	Max.	Units
Load current				0,12	A
Load voltage				80	V

Note: Logic signals are on terminal block X1: pins 5, 6 and 7, 8 (OPTO– MOS RELAY)





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Safe and reliable automation

Protection

Parameter	Specifications	Units	Note
Built-in input fuse	F 1A		Internal melting fuse
Reverse polarity protection			Serial diode in the positive branches of the both supply voltages
Limitation of the maximum pulsed current consumption	3	A	Switching current limit of the LM2592HV circuit

This document is applied to the UB0002V1 Ventilation Block and follows up on the document "Technical conditions Z200" no. 4 -5397 of which it has been an integral part.

