



SAU-PPV SAU-SPV

FAN CONTROL CABINET

cabinet designed to control:
DUCT FANS
GENERAL AND SPECIAL PURPOSE FANS
SMOKE EXHAUST FAN

- + HIGH QUALITY OF STAFFING
- + AFFORDABLE PRICE
- + THE MINIMUM PRODUCTION TIME (POSITION FROM THE WAREHOUSE)
- + POSSIBILITY OF USING TO ANY TYPES OF VENTILATORS

FEATURES OF THE CONTROL CABINET



* The appearance of the cabinet can be different from image

- + use of reliable components of European manufacturers;
- + protection and control of the actuation device;
- + connecting the fire alarm;
- + availability of equipment status indication;
- + availability of local authorities;
- + availability of a full package of documents (passport, a set of schemes, operator manual, user guide).

SAU-PPV-9,0

- automation cabinet
- type of control (**PPV**- control cabinet with integrated voltage disconnectors
SPV- SPV- control cabinet without integrated voltage disconnectors)
- the fan motor current

IT IS ALSO POSSIBLE TO PRODUCE CUSTOMIZED CABINET

Control cabinet SAU-PPV (SAU-SPV) is implemented on the basis of the power disconnect switch, contactor and electro-thermal relays.

CONTACTOR - switching device, allows you to control the currents in the range of the main contacts, applying voltage to the coil control (starter). The main purpose starter - remote start direct connection to a network of three-phase asynchronous motors.

THERMO RELAY protects the motor against overload invalid duration complete. In this case, the contactor, this is the same starter for controlling 3-phase motor. Thus, SAU-PPV (SAU-SPV) control cabinet has the function of the contactor and the starter.

The contactor coil from the control on the 380 is a topical solution for industrial enterprises and developers, since the use of a coil on 380 V to avoid additional costs for installation. The load in the majority of cases, asynchronous three-phase motors for voltage of 380 V. In the case of coils 220 should be used in the fourth neutral conductor, perform its installation in the contactor control circuit, which consequently leads to additional financial costs and loss of working time.

The high degree of protection (IP54) can be used SAU-PPV (SAU-SPV) control cabinet in the industry.

CONSTRUCTION

SCHEME OF CONTROL and universality of series production allows to avoid errors when connecting on site and to reduce the installation time, limited only by joining the network. Control cabinet SAU-PPV (SAU-SPV) operates in a wide temperature range from -40° C to + 55° C life cycle not less than 10 years. Elaboration of design has allowed receiving a number of additional benefits and convenience for installation and operation. It is use a metal shell, which has a high-quality powder paint coating, corrosion protection to increase security. In addition, body grounding, provides shielding electromagnetic fields arising from switching large currents. This makes protection equipment and safety. Also added a built-in disconnecter that allows you to increase the safety of this equipment during engine maintenance.

The control cabinet SAU-PPV (SAU-SPV) is provided to connect a special fire safety contact, which when activated SAU-PPV (SAU-SPV) control cabinet blocks the fan motor. Connecting fire safety is mandatory for fan control

OPERATION AND INSTALLATION

The main purpose of SAU-PPV (SAU-SPV) control cabinet - fine tuning to the requirements of the specific network. It is known that the regulations and the PBU is not recommended to use the standard motor protection circuit breakers and fuses, as they have only one installation and set them to a specific engine load is not possible. In contrast, the thermal relay settings may be changed to 50%.

TUNING ALGORITHM. When connecting the load, you must first set the maximum value of the relay settings. This value is then changed to decrease until the moment when the relay is not triggered. Thus, to determine the exact value of the threshold switch. Thereafter, the value is changed a third time - slightly above the threshold. For more precise threshold settings, this procedure can be repeated several times.

SHARP TUNING is very important for low loads, specifically for engines of ventilation systems. Proper configuration of the relay will protect the motor from overloading, which can be caused by the aging of components, deterioration of insulation resistance, the drying up of grease in the bearings.

RESTART. When the protection is activated the fan start button "Start" does not happen. In order to make the re-launch of the fan must be open SAU-PPV (SAU-SPV) control box, press the forced return to a working state thermal relay "R", close the SAU-PPV (SAU-SPV) control cabinet and run the fan after pressing the "Start" button.

RELAY TYPE	SETTING RANGE, A
РТЛ 1001(М)	0,10-0,17
РТЛ 1002(М)	0,16-0,26
РТЛ 1003(М)	0,24-0,40
РТЛ 1004(М)	0,38-0,65
РТЛ 1005(М)	0,61-1,00
РТЛ 1006(М)	0,95-1,60
РТЛ 1007(М)	1,50-2,60

RELAY TYPE	SETTING RANGE, A
РТЛ 1008(М)	2,40-4,00
РТЛ 1010(М)	3,80-6,00
РТЛ 1012(М)	5,50-8,00
РТЛ 1014(М)	7,00-10,00
РТЛ 1016(М)	9,50-14,00
РТЛ 1021(М)	13,00-19,00



ATTENTION! THE MAIN DIFFERENCE OF THE SAU-PPV FROM SAU-SPV IS AVAILABILITY OF POWER SERVICE DISCONNECT SWITCH VOLTAGE. IT IS RECOMMENDED TO USE A CABINET WITH MAINTENANCE SWITCH SAU-PPV, IN ORDER TO INCREASE OPERATING SAFETY AND MAINTENANCE OF THE FAN. ADDITIONAL INFORMATION ABOUT THE TYPE OF SERVICE SWITCH IN CATALOGUE "DUCT EQUIPMENT".

THE COMPANY RESERVES THE RIGHT WITHOUT NOTICE TO CHANGE DESIGN AND PACKAGING PRODUCTS, WHILE KEEPING THEIR CONSUMER PROPERTIES

ATTENTION! PRODUCTION IS SUPPORTED IN A WAREHOUSE
INFORMATION ABOUT THE AVAILABILITY CHECK WITH THE MANAGER

