

AUTOMATIC PROTECTION RELAY

Introduction

Automatic relay protection is a device used in power systems to automatically detect and respond abnormal conditions such as overcurrent, overvoltage, ground faults, etc. Alarms to protect electrical systems and equipment from potential hazards and ensure safe operation of electrical systems.

Blue Jay's power distribution safety-related products include Arc flash protection relays, Motor protection relays, WSK series, DH series switchgear temperature and humidity control equipment, etc. Products have miniature intelligence, high integration, high sensitivity and high precision, and has higher anti-electromagnetic interference performance and higher IP protection level. It is suitable for various monitoring sites to ensure electricity safety.

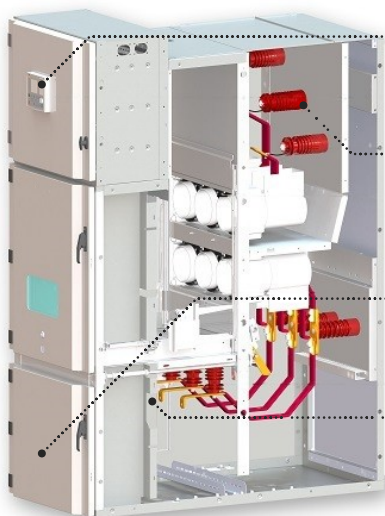


Main Features

- Automatic control, high reliability.
- Ability to record and analyze failure events.
- Modular design, convenient and quick installation and maintenance.
- Quick response: detect and cut off the faulty circuit in time to effectively prevent accidents.
- High-precision measurement and judgment ability, accurately judge the type and location of the fault.
- Versatility: such as overload protection, short circuit protection, ground fault protection, etc.
- 24 hours real-time monitoring, RS485 remote control.

Application

- Industrial automation system.
- Large municipal engineering project.
- UPS system, battery system.
- Real-time monitoring and alarm of power system.
- Substations, power plants, transmission lines, distribution lines.
- Protects motors from overloads, short circuits and motor failures.



Integrated CB control panel

- CB switch status indicate
- CB switching operation
- Integrate PMD and other functions

Thermal Monitoring (SCM-W3000)

- Surface touch or infrared sensor
- Cable terminations
- CB contact fingers
- Busbar joints

Partial Discharge Monitoring (SCM-PD3000)

- TV and ultrasonic sensor
- PD detection
- PD localization

Arc Flash Protective (AFR)

- High precision fiber probe
- Arc detection
- Arc localization
- Fault protection

WSK SERIES CABINET THERMOSTAT

CABINET ENVIRONMENT MONITORING

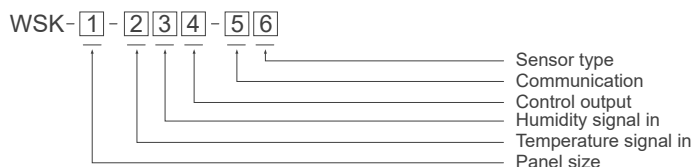


Introduction

The WSK Series Cabinet Thermostat is designed for temperature and humidity control. It integrates a humidity control module, collects real-time sensor data, and sends it to the processor for precise, automatic regulation.

Featuring fast-response load relay output, PID auto-tuning, multiple output types, and Modbus communication, it ensures stable, reliable operation even in harsh environments, making it ideal for industrial and electrical cabinet applications requiring continuous, accurate climate control.

Ordering Information

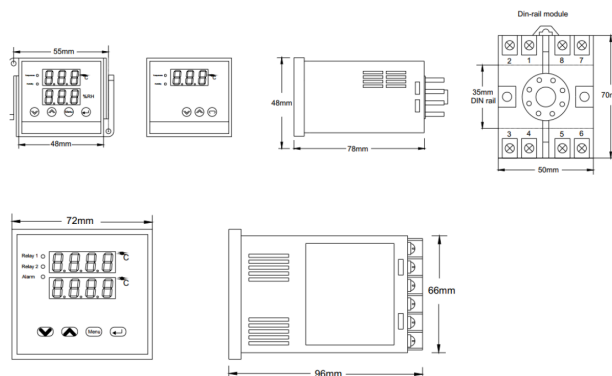


Num.	Code	Description
1	Blank	Standard 48(W) x 48(H)mm
	72	72(W) x 72(H)mm
2	W1	One channel temperature sensor input
	W2	Two channels temperature sensor input
3	S1	One channel humidity sensor input
	S2	Two channels humidity sensor input
4	K1	One channel output
	K2	Two channels output
5	Blank	Without this function
	R	One channel RS-485 communication port
6	Blank	Default model: WD01, SD01 (Refer to "related accessories")
	T	Thermocouple (-K,-J,-T,-E,-N,-R,-S,-B,-L,-U,-YXK)
	P	Platinum RTD(-PT100,-PT1000)
	L	Linear signal (0~5V,0~10V,0~20mA,4~20mA,0~50mV)

Main Features

- 3 digital or 4 digital LED screens.
- Built-in digital filter reduces interference.
- RS485 MODBUS RTU Communication .
- Standard panel size 48x48mm / 72x72mm.
- Optional 35mm DIN rail (only 48X48mm mode).
- Heat/ Fan control mode free to the configuration.
- Sensor length max 10 meters (default 3 meters).
- Accuracy temperature within 1°C & humidity within 5%.

Dimension



Related Accessories



Model: WD01

- 2-pin temperature sensor
- Temperature range: -50~80°C; accuracy $\pm 1^\circ\text{C}$;
- Dimension: 59*40*19mm



Model: SD01

- 3-pin humidity sensor
- Humidity range: 0~80%RH; accuracy $\pm 5\%\text{RH}$;
- Dimension: 59*40*19mm



Model: WK04-D/ WK05-D

- 3-pin/4pin temp.+ humid. integrated type
- Temperature: -40~80°C, accuracy $\pm 1^\circ\text{C}$
- Humidity: 0~99%RH, accuracy $\pm 5\%\text{RH}$



Model: jly01

- High-accuracy temp. and humid. Integrated sensor
- Temperature range: -40~120°C, accuracy $\pm 0.3^\circ\text{C}$
- Humidity range : 0~100%, accuracy $\pm 3\%\text{RH}$

Technical Characteristics

Basic parameters	
Power supply	85V~265VAC/DC 50Hz, optional 24/48VDC
Power consumption	≤ 5VA
Dimension (W*H)	48*48mm / 72*72mm
Input	
Temperature	-40~99°C
Temp.sensor accuracy	+/-0.2 °C
Humidity	1~98%RH
Hum.sensor accuracy	+/-3.0%RH
Cable length	2 m.(3m option)
Sampling rate	400 msec/per scan
Output	
Relay output	2-channels, 250VAC, 5A 1PH, resistive load
RS485 communication	MODBUS RTU, 4800/9600 baud rates
Display	
Waterproof degree	IP40
Display	2-line x 3 character 7-segment LED display
Keypads	Menu, Enter, Increase, Decrease
Environment	
Protection	Anti-containing acid, alkali, salt gas
Storage temperature	-10~55°C
Storage humidity	20 ~ 93%RH, Non-condensing