

DC dual power switching relay-RUS-32B series

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DC dual power switching relay-RUS-32B series

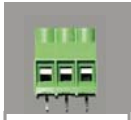
Product overview



DC dual power switching relay: RUS-32B series

Product application scene and features

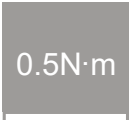
- The electrical equipment has two DC power supplies. When one input power supply failure or loses power, it needs to automatically switch to the other standby DC power supply.[Plants and stations with voltage levels above 220 kV provide two independent DC power supplies. The control loop or communication unit requires automatic switching of two DC power supplies.]
- The product provides input power monitoring contacts, and the contacts will close when the power lost.
- The product provides power monitoring signal and power supply circuit indication.
- Connection terminal: PHOEN X MKDS series
- Product installation size: 119.0mm(L)X60mm(W)X125.9mm(H)
- Installation method: DIN35 guide rail installation



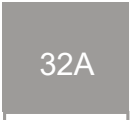
Connection terminal



Assembly and disassembly of single screwdriver



0.5N·m
Recommended moment



32A
Rated current



2.5mm²*1

Ordering data

RUS-32B series naming rules

Typical model	RUS	-32B	-H	/220V
Product series RUS=power switching relay series				
Relay output contact type and principle 32B=DC dual power switching relay				
Configuration H=Hight power DC dual power switch relay				
Rated input voltage of two power supplies 220V=220V rated DC voltage; 125V=125V rated DC voltage; 110V=110V rated DC voltage;				

RUS-32B series conventional models

Typical model	Application scene and type selection principle
RUS-32B-H/220V	In the case of two DC power supplies, automatically switching two power supplies as required.
RUS-32B-H/125V	
RUS-32B-H/110V	

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Product technical parameters and execution standards

Unless otherwise specified, all data are rated at T=25 °C

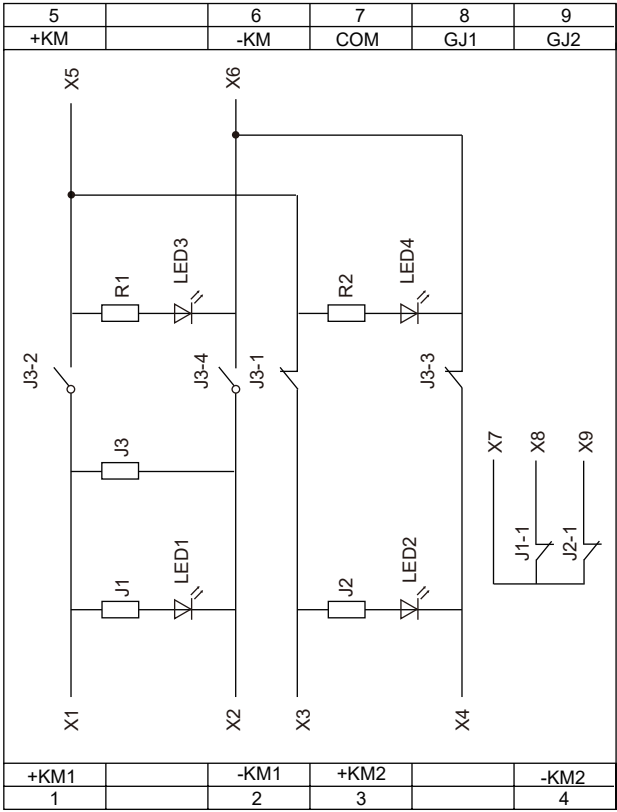
Input circuit - coil voltage rating		
DC voltage	220VDC、125VDC、110VDC	
Starting voltage range	55%~80%	
Allowable long-term operating voltage	1.2Un	
Output loop-relay contact output		
Number of contacts	Two pairs of contacts	
Output contact type	2NC	
Contact material	AgSnO2	
Contact disconnect load power*1	220V:500W	
	125V:500W	
	110V:500W	
Switching time(rated voltage)	≤20ms	
Isolation parameter		
Insulation Resistance	GB/T 14598.3-2006	Each loop to ground、each loop ≥100MΩ
Medium strength		AC 2kV, 1 min, leakage current 5mA
Impulse voltage		1.2/50μs, ±5kV, 3times
Electromagnetic compatibility(EMC)		
Electrostatic Discharge	GB/T 17626.1-2006	Level III (8kV/air discharge, 6kV/contact discharge)
Electrical fast transient immunity	GB/T 17626.4-2018	Level IV(±4kV input,output)
Surge	GB/T 17626.5-2019	Level IV(common mode:±4kV,differential mode:±4kV)
Product power consumption		
Whole power consumption	≤3W	
Screw type/tightening torque	M3/0.5~0.6Nm	
Design standard	GBT 14598.2-2011	General requirements for measuring relays and protection devices
Vibration and collision		
Vibration	GB/T 2423.10-2019	Electrical relays-Part 21:Vibration,shock,collision and seismic tests for measuring relays and protection devices. Part 1 : Vibration test(sine).
Vibration response	GB/T 11287-2000	Compatibility level: II , peak acceleration: 10m/s²
Vibration endurance		Compatibility level: II , peak acceleration: 20m/s²
Shock	GB/T 2423.5-2019	Shock and collision tests for measuring relays and protection devices
Shock response	GB/T 14537-1993	Compatibility level: II , peak acceleration: 98m/s²
Shock endurance		Compatibility level: II , peak acceleration: 294m/s²
Collision	GB/T 2423.6-2019	Shock and collision tests for measuring relays and protection devices
Collision response	GB/T 14537-1993	Compatibility level: II , peak acceleration: 196m/s²
Environmental data		
Environmental temperature	Work/Storage	-25℃~+55℃/-40℃~+70℃
Flame retardant		
Flame retardant level	UL94 V0 level flame retardant (750℃,30s)	

Note 1: Long-term product load greater than 500W, will lead to product heating, device damage.

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Product terminal definition

RUS-32B product terminal definition



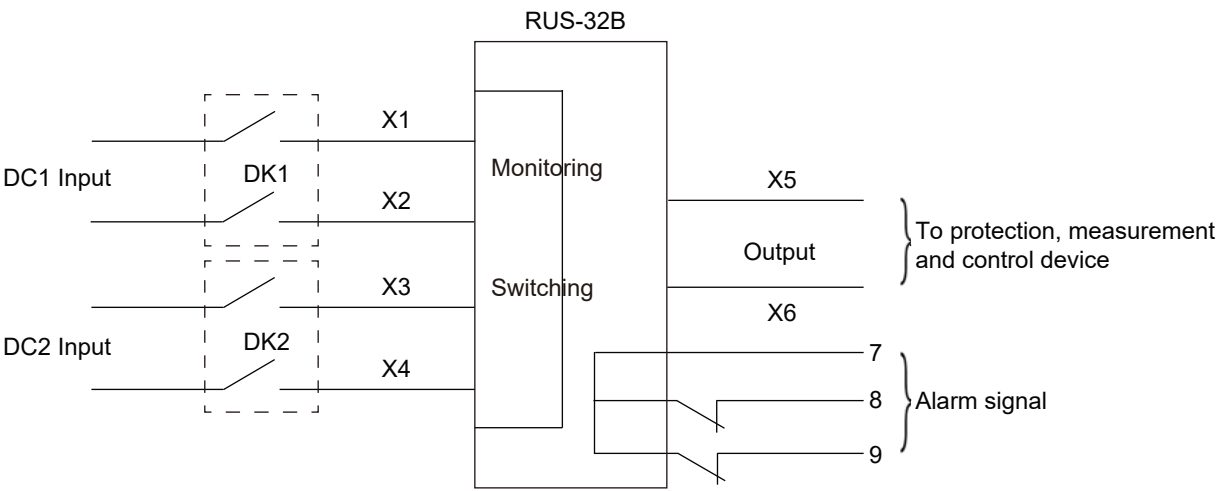
Port definition description

- 1:group 1 DC+; 2:group 1 DC-
- 3:group 2 DC+; 4:group 2 DC-
- 5:output+; 6:output-
- 7:common port; 8:group 1 voltage loss; 9:group 2 voltage loss

DC dual power switching relay-RUS-32B series

Product wiring schematic diagram

RUS-32B product wiring schematic diagram



DC dual power switching relay-RUS-32B series

Product installation size drawing(mm)

