

WRDQ3NX-A/C Type Controller

Basic Structure

This controller is a simple controller developed as per to market demand, have the features of simple operation, suitable functions and display intuitive etc.



Characteristic

Modularized installation mode with main body.

A, C type controller all have under voltage and voltage missing monitor function.

A, C type controller all can arbitrary interchange with single phase and three phase circuit.

A, C type controller all have Auto/Manual two working mode.

Technical Data

- Working voltage range: AC150~265V
- Ambient Temperature: -20°C ~+60°C
- Power consumption: ≤5W
- Transfer delay: 0.2s
- Recovery delay: 0.2s

WRDQ3NX-B/D Type Controller

Basic Structure

This controller is a multi-function electric monitor device, it is a collection of monitor, analysis, control, protection etc. many functions as a integration, widely used in highly automation genset control system and electric power automatic control system.



Characteristic

Setting the controller working mode and transfer delay time through the pull switch.

Fire linkage control function: B type controller with a set of passive fire-fighting signal input terminal. The input signal using opto-coupler isolation, have strong anti-interference ability; And also have a set of passive feedback signal output terminals, can send the switching position back to fire-fighting control equipment.

Generator start/stop control function : Controller with a relay contact point to control the generator start and stop.

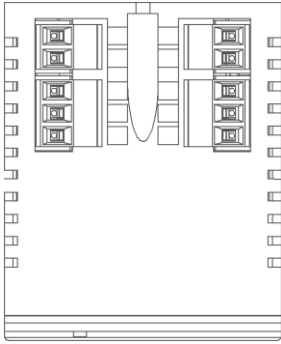
D type based on B type single phase voltage monitoring change as three phase monitoring.

Technical Data

- Working voltage range: AC150~265V
- Ambient Temperature: -20°C ~+60°C
- Power consumption: ≤5W
- Transfer delay: 0s~30s adjustable
- Recovery delay: 0s~30s adjustable

WRDQ3NX-A/B/C/D Series

Terminal Wiring Instruction



① : 101、102 three pole switch main power common null line (can connect to any one)

② : 201、202 three pole switch backup power common null line (can connect to any one)

③ : 301~303 main power external indicator light signal output (AC220V 0.5A);

301-Indicator light common null line

302-Main power signal output

303-Main power ON signal output

④ : 401~403 backup power external indicator light signal output (AC220V 0.5A);

401-Indicator light common null line

402-backup power signal output

403-backup power ON signal output

⑤ : 501~503 Generator start control output terminals

When the backup power is Auto start generator, users can connecting the 501~503 terminals to the generator controller to achieve the generator auto start function, inside 501~503 terminal, there is a set of 3A passive relay contact point, 503 is the relay common terminal, 501 is relay NC point, 502 is relay NO point; When main power normal, 503 and 501 is closed, 503 and 502 open, if main power failure and backup power no electricity, 503 and 502 close, and meanwhile

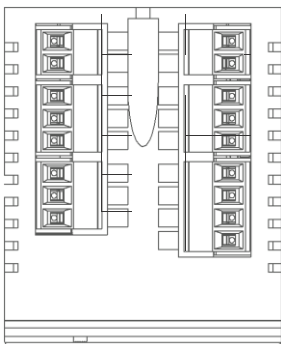
503 and 501 open to send the generator start signal, after generator start successfully, it auto transfer to the backup power supply, during the backup power supply normal and if main power recovery, then after the recovery delay control, it transfers to main power supply, main power circuit breaker ON, then after 3s delay 503 and 501 closed, 503 and 502 open to send generator stop signal.

⑥ : 601~604 fire linkage control terminals; These terminals are used for remote control of the switch off the power supply after the fire alarm.

601~602—Fire linkage control signal input terminal, this terminal external only connect to a set of NO passive contact point (if the signal from fire-fighting equipment is an active signal, must first pass through a small relay, then connect the relay NO point to controller, otherwise will burn the controller), when the external contact point closed, the controller immediately control the switch transfer to OFF position to switch off the load power supply, at same time through 603 and 604 terminal to send the signal back to fire-fighting control center;

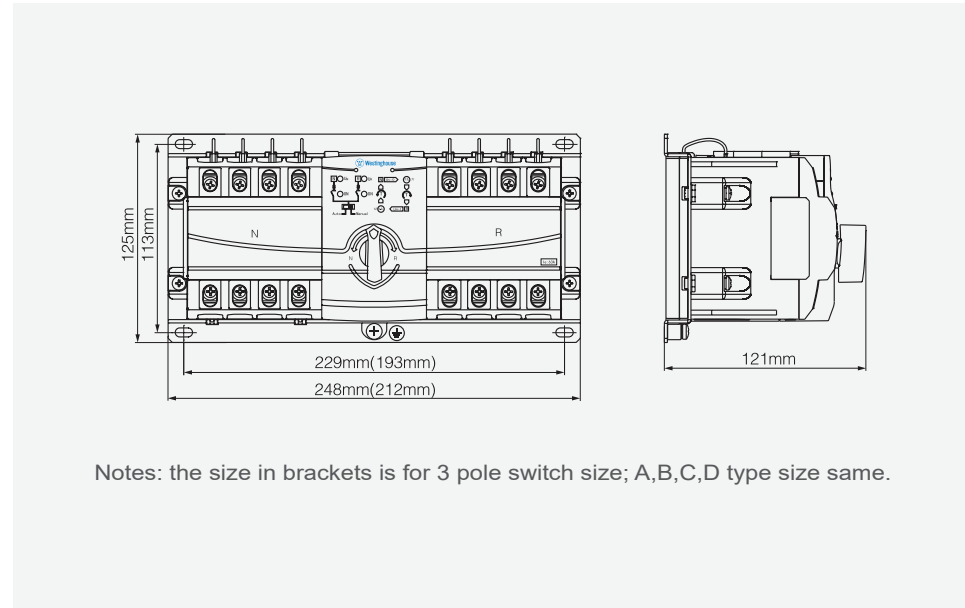
603~604—inside is a set of NO relay contact point, used for sending the fire-fighting movement signal back; When it is normal, the contact is NO status, when there is fire-fighting signal input to the controller, and the switch transfer to OFF position, the 603 and 604 closed.

Notes: when the fire linkage function is active, the ATS will stop working, if want the ATS to working again, must first clear up the fire-fighting signal and then switching the Auto/Manual control switch one time, the ATS will recovery normal working.



WRDQ3NX-A/B/C/D Series

Outline and Installation Dimensions(mm)



2
DUAL POWER (ATS)

Terminal Wiring

