

DNH41-80 Dual Power Automatic Transfer Switch(ATS)

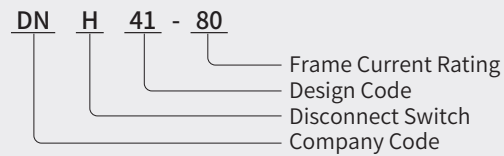


Scope of Application

DNH41-80 Dual Power Transfer Switch (Hereinafter Referred to as the Switch) The DNH41-80 Dual Power Transfer Switch is suitable for a rated insulation voltage of AC500V and a frequency of 50Hz/60Hz, with an operating voltage of AC230V. It is primarily used for switching between two low-voltage circuits or between mains power and generator circuits. The switch features an aesthetically pleasing, modern, concise, and design.

Compliance Standards: GB/T14048.3, GB/T14048.11, IEC60947-3, IEC60947-11,

Model Number and Description



Normal Operating Conditions

1. Ambient Air Temperature: Range: -5°C to +55°C, with a 24-hour average not exceeding +35°C. Normal operating temperature range: -5°C to +40°C.
2. Altitude: The installation site altitude should not exceed 2000 meters.
3. Humidity: The relative humidity of the atmosphere should not exceed 50% when the ambient air temperature reaches +40°C. At lower temperatures, higher relative humidity is acceptable. For example, 90% at 20°C, with consideration given to the elimination of condensation on the product surface due to temperature changes.
4. Pollution Degree: The surrounding environment should have a pollution degree of Level 2.
5. Installation Specifications: Mounting on DIN Rail (35*7.5mm).
6. Installation Conditions: The switch should be installed vertically in a location free from significant shaking, impact, vibration, and exposure to rain or snow. The installation site should be free from explosive hazardous substances, and the environment should not contain gases or dust that could corrode metal or damage insulation.

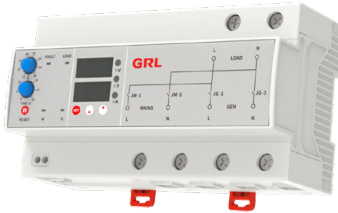
Structural Features

1. Adjustable Current Alarm: Current adjustment range: 10-80A. Overload alarm function.
2. Real-Time Voltage and Current Display: The dual power transfer switch can display real-time line voltage and current.
3. Pre-Set Power Switching Time: In case of main power failure, the switch transfers to the backup power within 3 seconds. When the main power is restored, the switch returns to the main power after a pre-set delay of 1-30 seconds.
4. Installation Method: Mounting on DIN Rail (35*7.5mm).

DNH41-80

Dual Power

Automatic Transfer Switch(ATS)

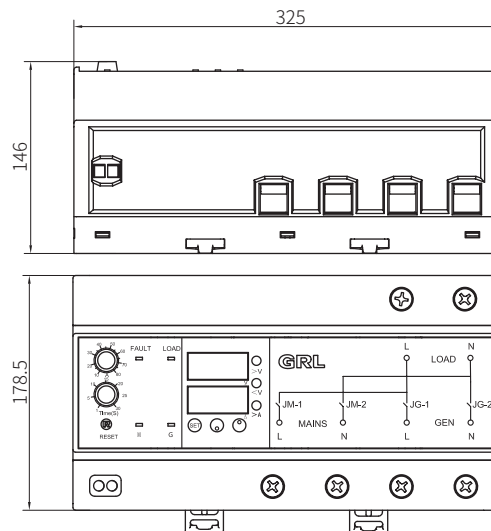


Technical Specifications

Number of Poles	1P+N
Number of Connected Generators	1
Frame Rated Operational Current	10-80A Tunable
Rated Operational Voltage	AC230V
Operating Voltage Range	0.75-1.15Un
Rated Frequency	50/60Hz
Power Consumption	4.5VA, AC230V
Rated Insulation Voltage	500V
Rated Impulse Withstand Voltage	1.5kV
Dielectric Strength	2kv
LED Indicator	Mains:Blue; Generator:Blue; Load:Green; Fault:Red
Transfer Delay Time	Main Power to Generator: 3s; Generator to Main Power: 1~30s (Adjustable)
Utilization Category	AC-21A (IEC 60947-3),AC-31B (IEC60947-6)
Ambient Temperature	-5~55°C
Pollution Degree	2
Ingress Protection (IP) Rating	IP20
Installation Specifications	DIN rail(35*7.5mm)
Wiring Capacity	16-25mm ²

Dimensions and Installation Specifications

DNH41-80 Dual Power Transfer Switch - Dimensions and Installation Specifications (mm)



Ordering Information

1. Ordering Information

When placing an order, please specify the model, current rating, number of poles, wiring method, and quantity.

Example 1: For a DNH1-630/30G fuse-disconnect switch with a rated current of 63A, 3 poles, with fuses, without auxiliary contacts, and a quantity of 100 units, the order should be written as: DNH1-630G-300A, 100 units.

2. Using Product Selection Table for Ordering

Alternatively, you can place an order using the part number from the product selection table (Table 7).

Example 2: For a DNH1-630/30G fuse-disconnect switch with a rated current of 300A, voltage AC400/690V, 3 poles, with fuses, one auxiliary contact, monitoring function, without a protective cover, and a quantity of 100 units, refer to Table 7 to obtain the part number DN15201310. The order should be written as: DNH1-630/30G, Part Number DN15201310, 100 units.

3. Special Installation Conditions or Usage Environments

If there are special installation conditions or specific usage environments, please provide the relevant technical documentation or consult with our company for further discussion.