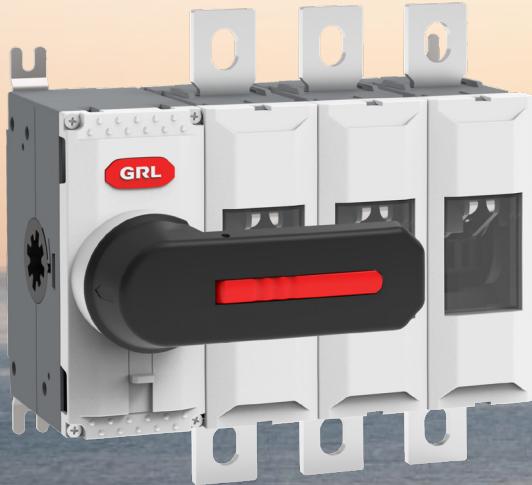




DNH40 Series Disconnector Switch

Product Catalog



About GRL



Founded in 2003



24 Invention Patents, 83 Utility Model Patents



National High-Tech Enterprise



Zhejiang Provincial "Specialized, Sophisticated, Distinctive, and Innovative" SME



Zhejiang Provincial Invisible Champion Enterprise



Zhejiang Provincial (Key) Enterprise Research Institute



Zhejiang Provincial Industrial Design Center



Wenzhou Green Factory



Zhejiang GRL Electric Co., Ltd. Established in 2003, GRL specializes in R&D, production, and sales of fuses, enclosed busway systems, and disconnectors. Our core products include high/low-voltage fuses, disconnectors, enclosed busway systems, new energy copper connections, and surge protectors. These products are widely used in energy storage, charging stations, power grids, photovoltaic/wind power generation, automotive manufacturing, machinery, marine power distribution, and building infrastructure. GRL has provided thousands of electrical components and solutions for new energy, industrial control, power systems, and new infrastructure, establishing itself as a leading brand in electrical connection and protection.

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GRL is committed to advancing electrical safety, reliability, and efficiency while adhering to green development principles and social responsibility. We continuously improve to become a globally respected electrical brand.



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DNH40 Series Disconnector Switch



Product Overview

The DNH40 series disconnector switch (hereinafter referred to as "the switch") is suitable for industrial power distribution systems with AC 50Hz/60Hz and rated insulation voltage up to 1000V. It is designed for infrequent circuit connection/disconnection and electrical isolation, widely used in construction, power, petroleum, chemical, and automation systems.

Note: Installation, debugging, and maintenance must be performed by qualified personnel in suitable environments. All operations must comply with this manual.

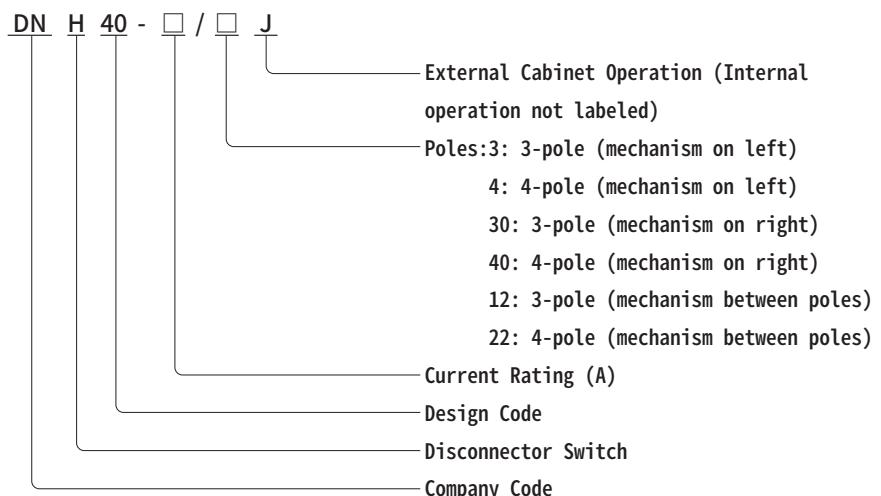
Applicable Standards

GB/T 14048.1、GB/T 14048.3

Certifications

TÜV、CCC、CE、CB、CCS (2000A~4000A)

Model Designation



Ordering Instructions

Provide the following details:

Product name, model, specifications, and quantity.

Special installation conditions or technical requirements must be communicated in advance.

Example: DNH40-250/3J Disconnector Switch, 250A, 3-pole, external cabinet operation.

DNH40 Series Disconnector Switch

DNH40-160~250



Key Technical Parameters

Model		DNH40-160	DNH40-200	DNH40-250
Conventional thermal current and rated operational current	A	160	200	250
Rated operational voltage (AC-20/DC-20)	V		1000	
Rated insulation voltage (Installation category IV)	Ui V		1000	
Dielectric strength	50Hz 1min kV		10	
Rated impulse withstand voltage	Uiimp kV		12	
Rated operational current (AC-21A)	690V A	160	200	250
Rated operational current (AC-22A)	690V A	160	200	250
Rated operational current (AC-23A)	690V A	160	200	250
Power loss per pole (at rated operational current)	W	3.2	4	6.5
Rated short-time withstand current	≤ 690V1s kA		8	
Rated short-circuit making capacity	≤ 690V kA		30	
Mechanical life	Oper		20000	
Operating torque (3-pole)	Nm		7	
Terminal screw specification	mm		M8×25	
Terminal tightening torque	Locking torque Nm		15 ~ 22	

Normal Operating Conditions

Ambient Temperature	Range: -5°C to +40°C, with a 24-hour average temperature not exceeding +35°C
Humidity	At maximum temperature (+40°C), relative humidity ≤50%.At lower temperatures (e.g., +20°C), higher humidity (up to 90%) is permissible.Special measures must be taken to address occasional condensation caused by temperature fluctuations.
Altitude	≤2000m
Pollution Degree	III
Installation Category	IV
Installation Requirements	The switch must be installed in a location free from significant vibration, mechanical shock, or exposure to rain/snow.The installation site must be free of explosive hazardous substances and corrosive gases/dust that could damage metal or insulation.

Note: If the switch is intended for use in ambient temperatures exceeding +40°C or below -5°C , the user must consult the manufacturer.

DNH40 Series Disconnector Switch

DNH40-315~400



Key Technical Parameters

Model		DNH40-315	DNH40-400
Conventional thermal current and rated operational current	A	315	400
Rated operational voltage (AC-20/DC-20)	V		1000
Rated insulation voltage (Installation category IV)	Ui V		1000
Dielectric strength	50Hz 1min kV		10
Rated impulse withstand voltage	Ui _{imp} kV		12
Rated operational current (AC-21A)	690V A	315	400
Rated operational current (AC-22A)	690V A	315	400
Rated operational current (AC-23A)	690V A	315	400
Power loss per pole (at rated operational current)	W	6.5	10
Rated short-time withstand current	≤ 690V1s kA		15
Rated short-circuit making capacity	≤ 690V kA		65
Mechanical life	Oper		16000
Operating torque (3-pole)	Nm		16
Terminal screw specification	mm		M10×30
Terminal tightening torque	Locking torque Nm		30 ~ 44

Normal Operating Conditions

Ambient Temperature	Range: -5°C to +40°C, with a 24-hour average temperature not exceeding +35°C
Humidity	At maximum temperature (+40°C), relative humidity ≤50%. At lower temperatures (e.g., +20°C), higher humidity (up to 90%) is permissible. Special measures must be taken to address occasional condensation caused by temperature fluctuations.
Altitude	≤2000m
Pollution Degree	III
Installation Category	IV
Installation Requirements	The switch must be installed in a location free from significant vibration, mechanical shock, or exposure to rain/snow. The installation site must be free of explosive hazardous substances and corrosive gases/dust that could damage metal or insulation.

Note: If the switch is intended for use in ambient temperatures exceeding +40°C or below -5°C, the user must consult the manufacturer.

DNH40 Series Disconnector Switch

DNH40-630~800



Key Technical Parameters

Model		DNH40-630	DNH40-800
Conventional thermal current and rated operational current	A	630	800
Rated operational voltage (AC-20/DC-20)	V		1000
Rated insulation voltage (Installation category IV)	Ui V		1000
Dielectric strength	50Hz 1min kV		10
Rated impulse withstand voltage	Uimp kV		12
Rated operational current (AC-21A)	690V A	630	800
Rated operational current (AC-22A)	690V A	630	800
Rated operational current (AC-23A)	690V A	630	800
Power loss per pole (at rated operational current)	W	25	40
Rated short-time withstand current	≤ 690V1s kA		20
Rated short-circuit making capacity	≤ 690V kA		80
Mechanical life	Oper		6000
Operating torque (3-pole)	Nm		27
Terminal screw specification	mm		M12×40
Terminal tightening torque	Locking torque Nm		50 ~ 75

Normal Operating Conditions

Ambient Temperature	Range: -5°C to +40°C, with a 24-hour average temperature not exceeding +35°C
Humidity	At maximum temperature (+40°C), relative humidity ≤50%.At lower temperatures (e.g., +20°C), higher humidity (up to 90%) is permissible.Special measures must be taken to address occasional condensation caused by temperature fluctuations.
Altitude	≤2000m
Pollution Degree	III
Installation Category	IV
Installation Requirements	The switch must be installed in a location free from significant vibration, mechanical shock, or exposure to rain/snow.The installation site must be free of explosive hazardous substances and corrosive gases/dust that could damage metal or insulation.

Note: If the switch is intended for use in ambient temperatures exceeding +40°C or below -5°C , the user must consult the manufacturer.

DNH40 Series Disconnector Switch

DNH40-1000~1600



Key Technical Parameters

Model		DNH40-1000	DNH40-1250	DNH40-1600
Conventional thermal current and rated operational current	A	1000	1250	1600
Rated operational voltage (AC-20/DC-20)	V		1000	
Rated insulation voltage (Installation category IV)	Ui V		1000	
Dielectric strength	50Hz 1min kV		10	
Rated impulse withstand voltage	Uimp kV		12	
Rated operational current (AC-21A)	690V A	1000	1250	1600
Rated operational current (AC-22A)	690V A	1000	1250	1600
Rated operational current (AC-23A)	690V A	1000	1250	1250
Power loss per pole (at rated operational current)	W	19	29	48
Rated short-time withstand current	≤ 690V1s kA		50	
Rated short-circuit making capacity	≤ 690V kA		110	
Mechanical life	Oper		6000	
Operating torque (3-pole)	Nm		70	
Terminal screw specification	mm		M12	
Terminal tightening torque	Locking torque Nm		50 ~ 75	
Normal Operating Conditions				
Ambient Temperature	Range: -5°C to +40°C, with a 24-hour average temperature not exceeding +35°C			
Humidity	At maximum temperature (+40°C), relative humidity ≤50%. At lower temperatures (e.g., +20°C), higher humidity (up to 90%) is permissible. Special measures must be taken to address occasional condensation caused by temperature fluctuations.			
Altitude	≤2000m			
Pollution Degree	III			
Installation Category	IV			
Installation Requirements	The switch must be installed in a location free from significant vibration, mechanical shock, or exposure to rain/snow. The installation site must be free of explosive hazardous substances and corrosive gases/dust that could damage metal or insulation.			
Note: If the switch is intended for use in ambient temperatures exceeding +40°C or below -5°C, the user must consult the manufacturer.				

DNH40 Series Disconnector Switch

DNH40-2000~2500



Key Technical Parameters

Model		DNH40-2000	DNH40-2500
Conventional thermal current and rated operational current	A	2000	2500
Rated operational voltage (AC-20/DC-20)	V		1000
Rated insulation voltage (Installation category IV)	Ui V		1000
Dielectric strength	50Hz 1min kV		10
Rated impulse withstand voltage	Uimp kV		12
Rated operational current (AC-21A)	690V A	2000	2500
Rated operational current (AC-22A)	690V A	2000	2500
Power loss per pole (at rated operational current)	W	55	85
Rated short-time withstand current	≤ 690V1s kA		55
Rated short-circuit making capacity	≤ 690V kA		176
Mechanical life	Oper		6000
Operating torque (3-pole)	Nm		70
Terminal screw specification	mm		M12
Terminal tightening torque	Locking torque Nm		50 ~ 75

Normal Operating Conditions

Ambient Temperature	Range: -5°C to +40°C, with a 24-hour average temperature not exceeding +35°C
Humidity	At maximum temperature (+40°C), relative humidity ≤50%.At lower temperatures (e.g., +20°C), higher humidity (up to 90%) is permissible.Special measures must be taken to address occasional condensation caused by temperature fluctuations.
Altitude	≤2000m
Pollution Degree	III
Installation Category	IV
Installation Requirements	The switch must be installed in a location free from significant vibration, mechanical shock, or exposure to rain/snow.The installation site must be free of explosive hazardous substances and corrosive gases/dust that could damage metal or insulation.

Note: If the switch is intended for use in ambient temperatures exceeding +40°C or below -5°C , the user must consult the manufacturer.

DNH40 Series Disconnector Switch

DNH40-3200~4000



Key Technical Parameters

Model	DNH40-3200		DNH40-4000
Conventional thermal current and rated operational current	A	3200	4000
Rated operational voltage (AC-20/DC-20)	V	1000	
Rated insulation voltage (Installation category IV)	Ui V	1000	
Dielectric strength	50Hz 1min kV	10	
Rated impulse withstand voltage	Uimp kV	12	
Rated operational current (AC-21B)	400/415/500V A	3200	4000
Rated operational current (AC-22B)	400/415/500V A	3200	4000
Power loss per pole (at rated operational current)	W	95	130
Rated short-time withstand current	≤ 690V1s kA	60	
Rated short-circuit making capacity	≤ 690V kA	176	
Mechanical life	Oper	5000	
Operating torque (3-pole)	Nm	70	
Terminal screw specification	mm	M12	
Terminal tightening torque	Locking torque Nm	50 ~ 75	

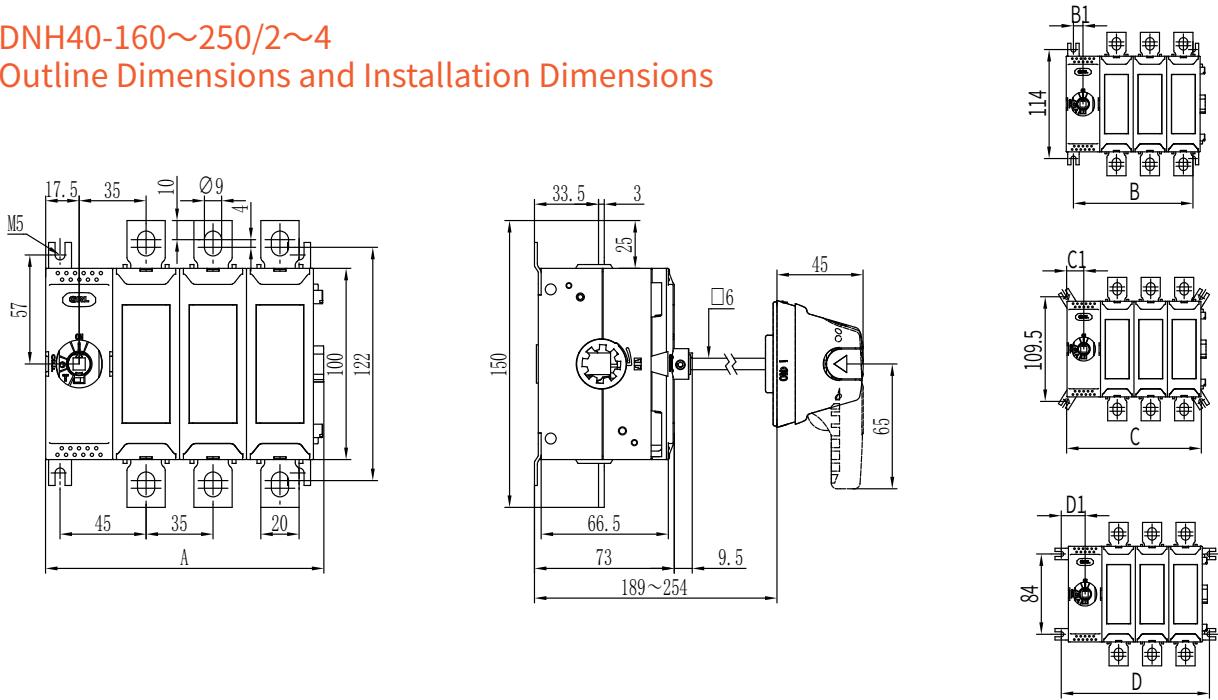
Normal Operating Conditions

Ambient Temperature	Range: -5°C to +40°C, with a 24-hour average temperature not exceeding +35°C
Humidity	At maximum temperature (+40°C), relative humidity ≤50%.At lower temperatures (e.g., +20°C), higher humidity (up to 90%) is permissible.Special measures must be taken to address occasional condensation caused by temperature fluctuations.
Altitude	≤2000m
Pollution Degree	III
Installation Category	IV
Installation Requirements	The switch must be installed in a location free from significant vibration, mechanical shock, or exposure to rain/snow.The installation site must be free of explosive hazardous substances and corrosive gases/dust that could damage metal or insulation.

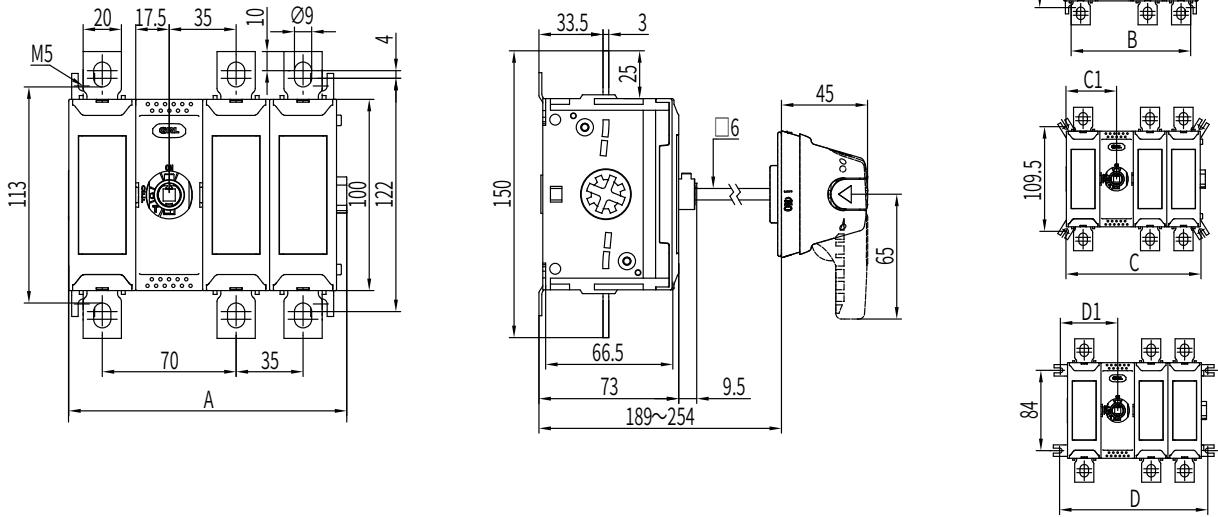
Note: If the switch is intended for use in ambient temperatures exceeding +40°C or below -5°C , the user must consult the manufacturer.

DNH40 Series Disconnector Switch

DNH40-160~250/2~4 Outline Dimensions and Installation Dimensions



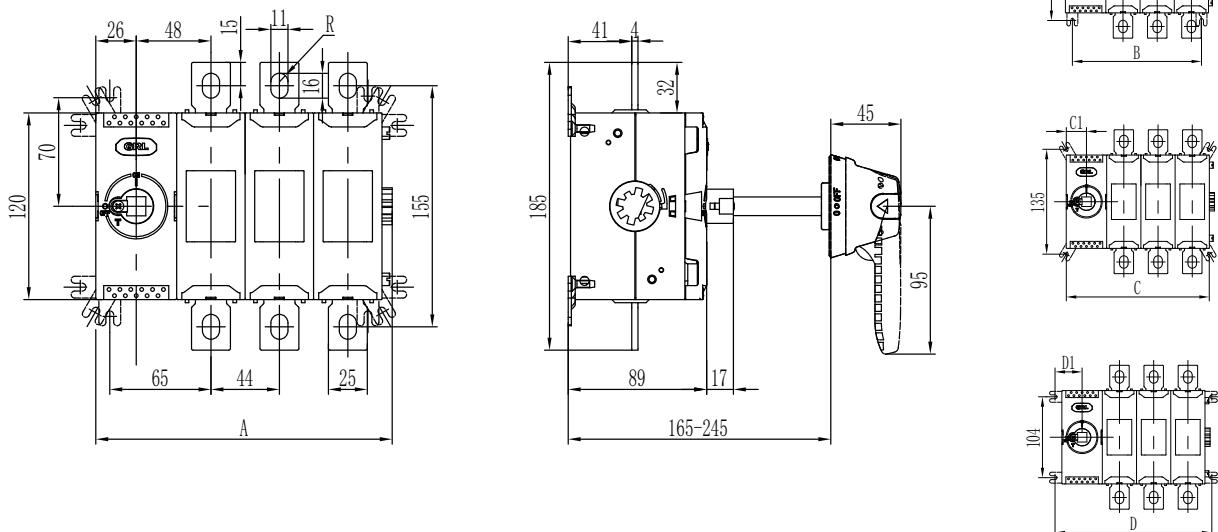
DNH40-160~250/11~22 Outline Dimensions and Installation Dimensions



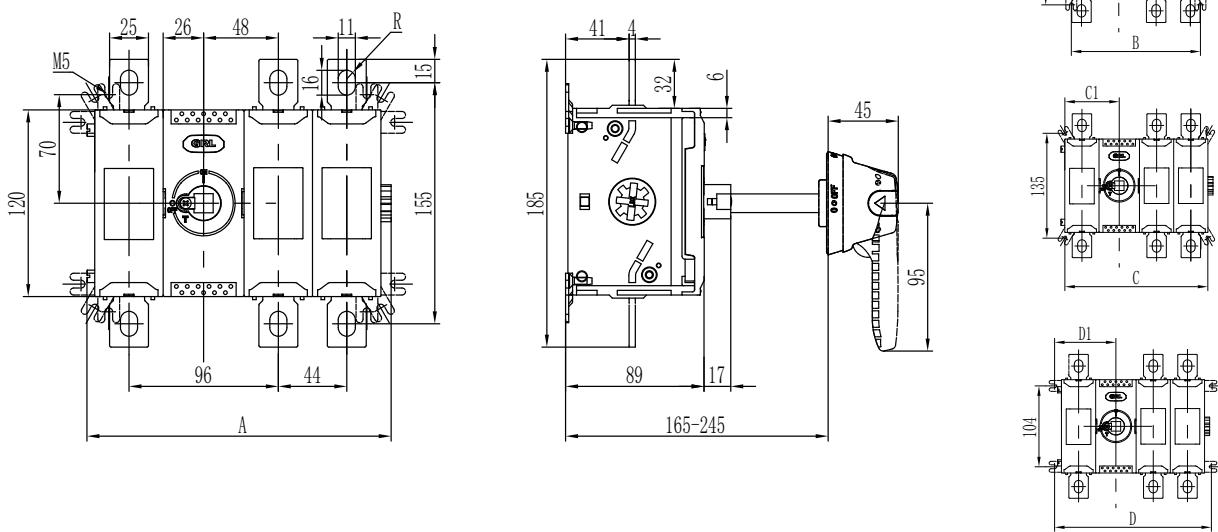
Model	Outline Dimensions	Installation Dimensions			Operating Position			
		In	A	B	C	D	B1	
DNH40-160、200、250/2	110.5		90	106	120	10	18	25
DNH40-160、200、250/3	145.5		125	141	155	10	18	25
DNH40-160、200、250/4	180.5		160	176	190	10	18	25
DNH40-160、200、250/12	145.5		125	141	155	45	53	60
DNH40-160、200、250/13	180.5		160	176	190	45	53	60
DNH40-160、200、250/22	180.5		160	176	190	80	88	95

DNH40 Series Disconnector Switch

DNH40-315~400/2~4 Outline Dimensions and Installation Dimensions



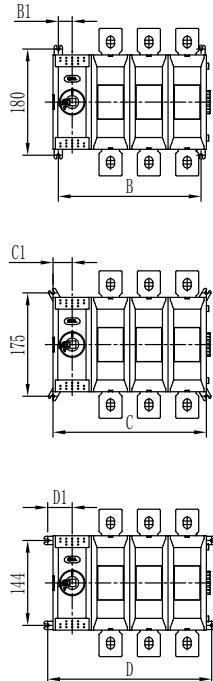
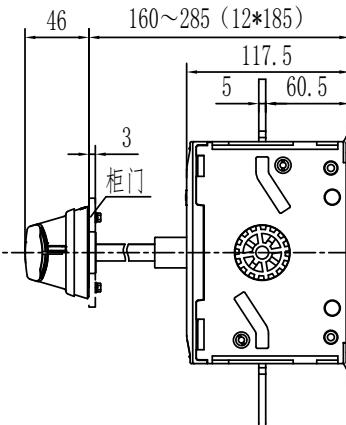
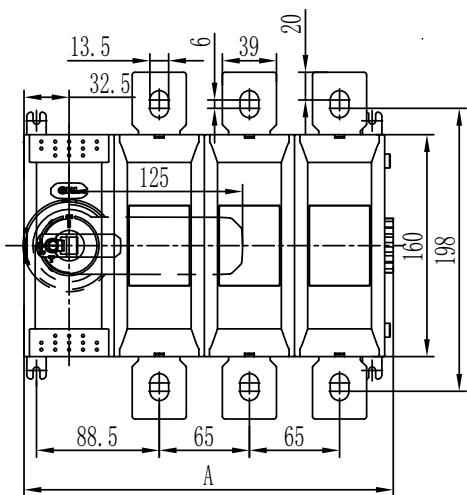
DNH40-315~400/11~33 Outline Dimensions and Installation Dimensions



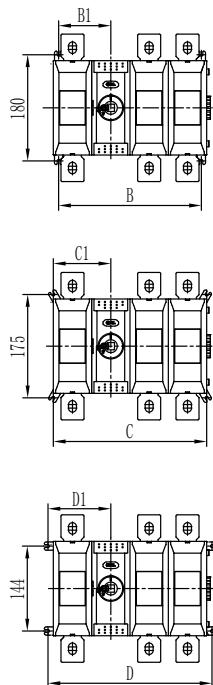
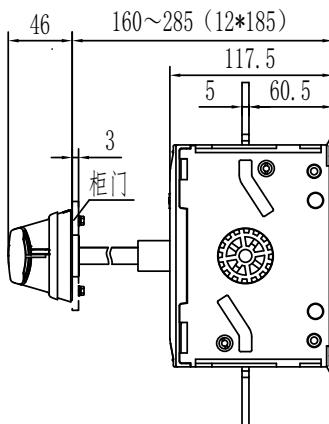
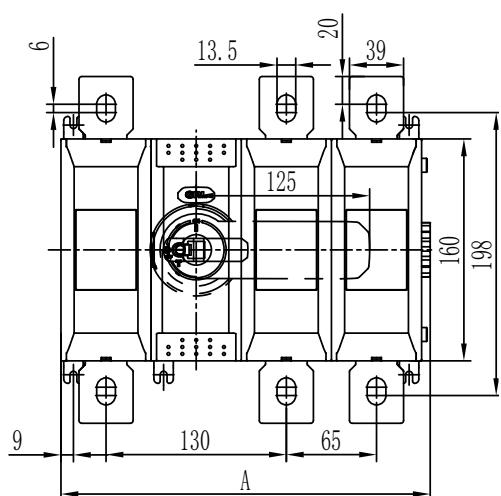
Model	Outline Dimensions	Installation Dimensions			Operating Position		
		A	B	C	D	B1	C1
In							D1
DNH40-315、400/2	147	122	140	158	17	26	35
DNH40-315、400/3	191	166	184	202	17	26	35
DNH40-315、400/4	235	210	228	246	17	35	35
DNH40-315、400/12	196	166	184	202	61	70	79
DNH40-315、400/13	240	210	228	246	61	70	79
DNH40-315、400/22	240	210	228	246	105	114	123
DNH40-315、400/23	284	254	272	290	105	114	123
DNH40-315、400/33	328	298	316	334	149	158	167

DNH40 Series Disconnector Switch

DNH40-630~800/3~4 Outline Dimensions and Installation Dimensions



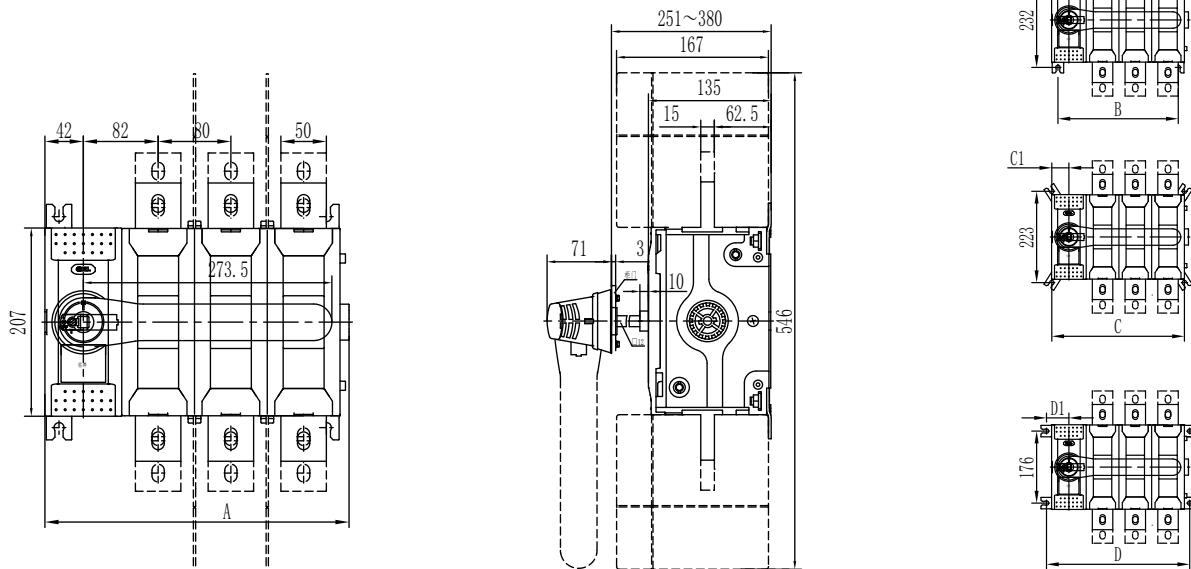
DNH40-630~800/12~22 Outline Dimensions and Installation Dimensions



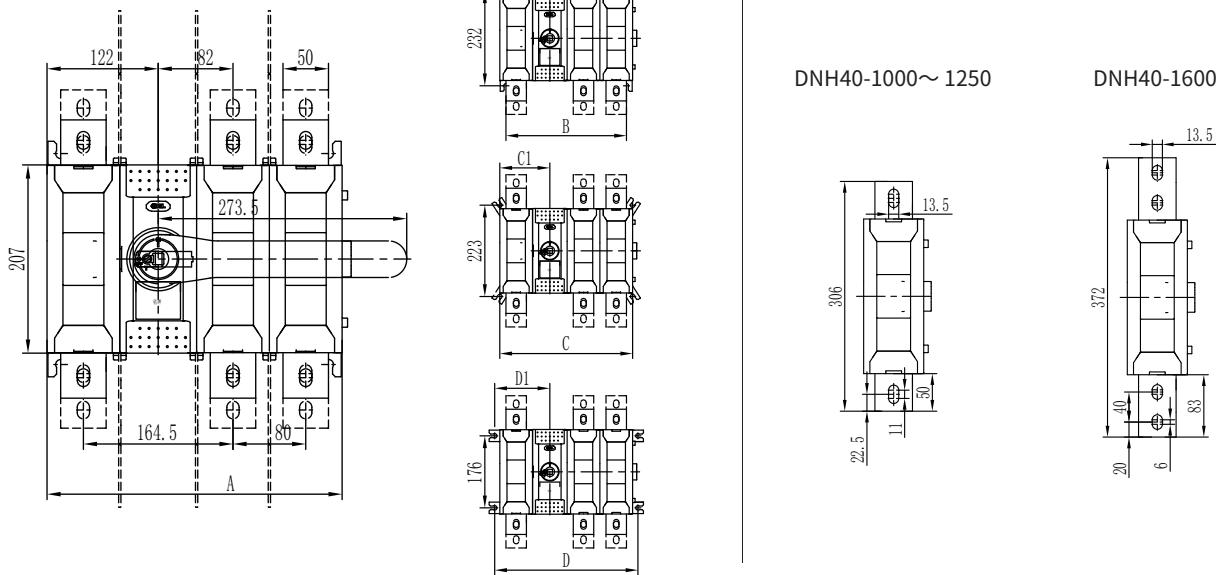
Model	Outline Dimensions	Installation Dimensions				Operating Position		
		A	B	C	D	B1	C1	D1
DNH40-630、800/30		266	242	260	278	218.5	227.5	236.5
DNH40-630、800/3		266	242	260	278	23.5	32.5	41.5
DNH40-630、800/12		266	242	260	278	88.5	97.5	106.5
DNH40-630、800/4		331	307	325	343	23.5	32.5	41.5
DNH40-630、800/22		331	307	325	343	153.5	162.5	171.5
DNH40-630、800/40		331	307	325	343	283.5	292.5	301.5

DNH40 Series Disconnector Switch

DNH40-1000~1600/3~4 Outline Dimensions and Installation Dimensions



DNH40-1000~1600/12~22 Outline Dimensions and Installation Dimensions

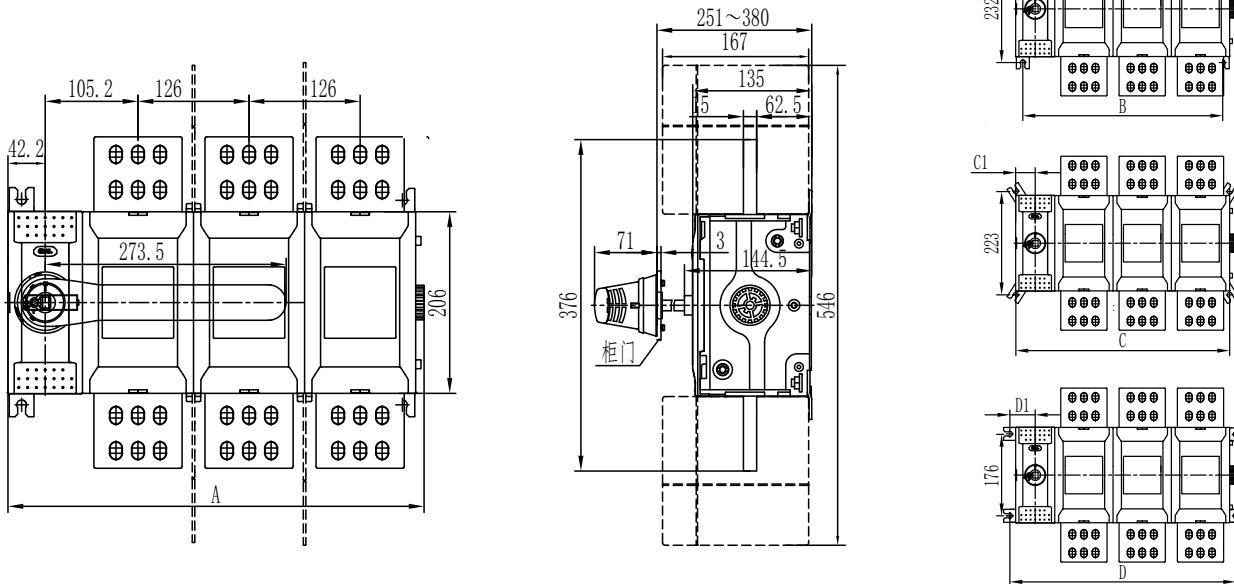


DNH40-1000~1600
Single-Pole Outline Dimensions and
Installation Dimensions

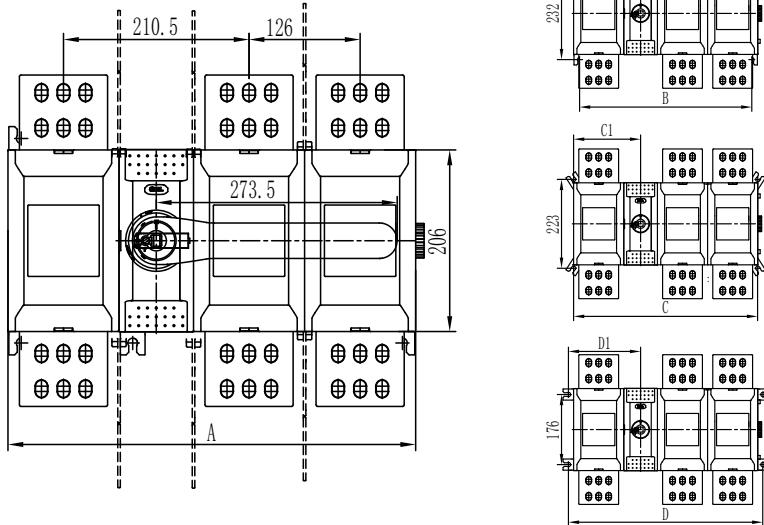
Model	Outline Dimensions	Installation Dimensions				Operating Position		
		A	B	C	D	B1	C1	D1
DNH40-1000、1250、1600/30	334.5	294	324	350	267	282	295	
DNH40-1000、1250、1600/3	334.5	294	324	350	27	42	55	
DNH40-1000、1250、1600/12	334.5	294	324	350	107	122	135	
DNH40-1000、1250、1600/4	414.5	374	404	430	27	42	55	
DNH40-1000、1250、1600/22	414.5	374	404	430	187	202	215	
DNH40-1000、1250、1600/40	414.5	374	404	430	347	362	375	

DNH40 Series Disconnector Switch

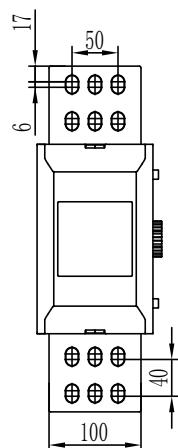
DNH40-2000~2500/3~4 Outline Dimensions and Installation Dimensions



DNH40-2000~2500/12~22 Outline Dimensions and Installation Dimensions



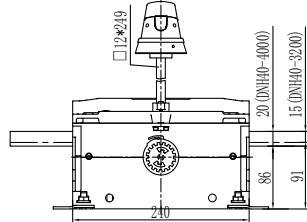
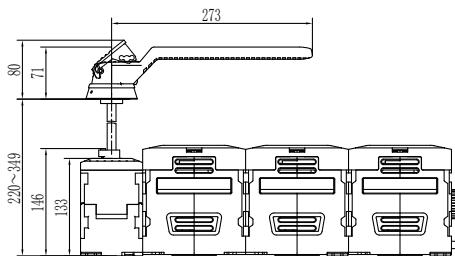
DNH40-2000~2500 Single-Pole Outline Dimensions and Installation Dimensions



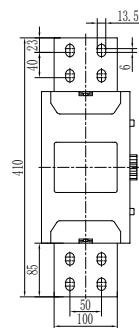
Model	Outline Dimensions	Installation Dimensions				Operating Position		
		A	B	C	D	B1	C1	D1
In								
DNH40-2000、2500/3	472	432	462	488	405	420	433	
DNH40-2000、2500/12	472	432	462	488	27	42	55	
DNH40-2000、2500/30	472	432	462	488	153	168	181	
DNH40-2000、2500/4	598	558	588	614	27	42	55	
DNH40-2000、2500/22	598	558	588	614	279	294	307	
DNH40-2000、2500/40	598	558	588	614	513	546	559	

DNH40 Series Disconnector Switch

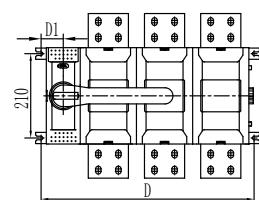
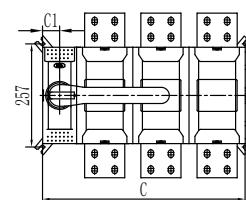
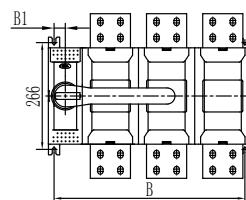
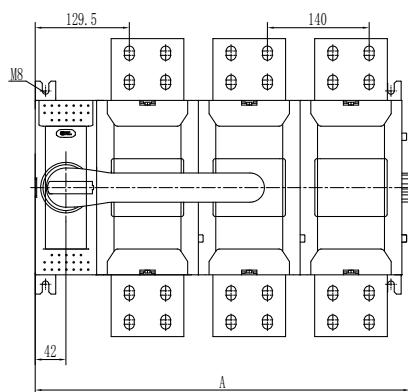
DNH40-3200~4000 Outline Dimensions and Installation Dimensions



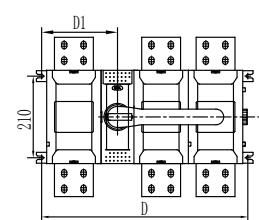
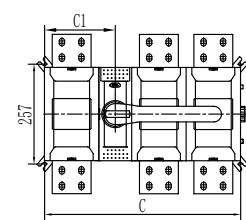
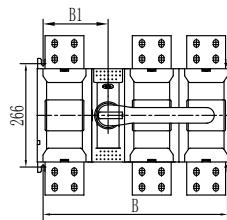
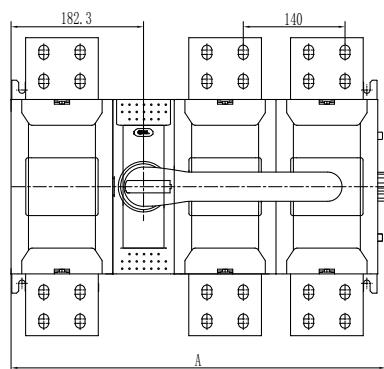
DNH40-2000~2500 Single-Pole Outline Dimensions and Installation Dimensions



DNH40-3200~4000/3~4 Outline Dimensions and Installation Dimensions



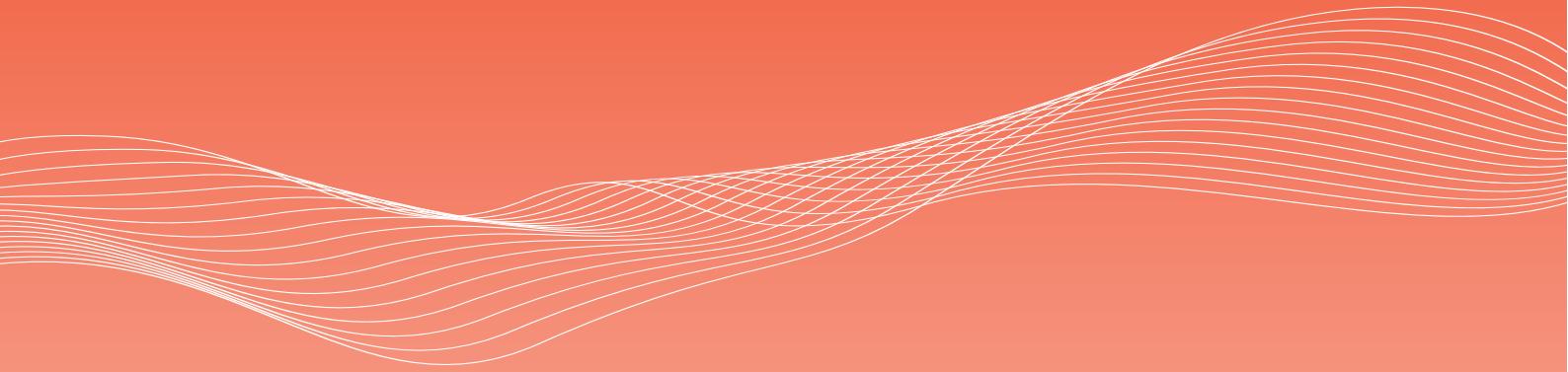
DNH40-3200~4000/12~22 Outline Dimensions and Installation Dimensions



Model In	Outline Dimensions A	Installation Dimensions			Operating Position		
		B	C	D	B1	C1	D1
DNH40-3200、4000/3	514	475	506.5	532.5	28	42.5	55
DNH40-3200、4000/12	514	475	506.5	532.5	167	181.5	195
DNH40-3200、4000/4	654	615	646	672	28	42.5	55
DNH40-3200、4000/22	654	615	646	672	307	321.5	355

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