

DNH12-125

Fuse-switch Disconnectors



Product Overview

The DNH12-125 series fuse-switch disconnectors (hereinafter referred to as switches) are mainly used in distribution circuits and motor circuits with high short-circuit currents, with a rated voltage of AC 400V/690V and a conventional free-air thermal current up to 125A. They serve as power switches, isolating switches, emergency switches, and for circuit protection, but are generally not intended for direct switching of individual motors.

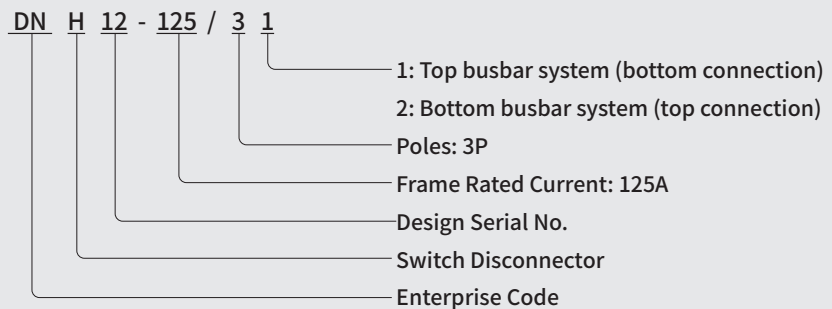
Applicable Standards

IEC 60947-3、GB/T 14048.3

Product Certification

CCC、CE、CB

Model and Meaning



Main Technical Parameters

Product Model	DNH12-125		
Frame Current (A)	80/125		
Conventional Thermal Current I_{th} (A)	80/125		
Rated Insulation Voltage U_i (V)	800		
Rated Impulse Withstand Voltage U_{imp} (kV)	6		
Rated Conditional Short-circuit Current I_q (kA)	120	80	
Rated Voltage AC (V)		400	690
DNH12-125 Rated Current (A)	AC-21B	/	80
	AC-22B	125	/
Fuse-link Current Rating	NT000 NT00C NTC00 NH000 NH00C NHC00	2/4//6/10/16/20/25/32/40/50/63/80 /100/125	2/4//6/10/16/20/25/32/40/50/63/80
Mechanical Endurance(operations)	1400		
Electrical Endurance(operations)	200		
Operating Force (N)	70		
Mounting Orientation	Plug-in Busbar Connection		
Degree of Protection	IP3X		
Power Consumption	≤ 12W		

Ordering Instructions

1. The ordering unit must specify the switch type characteristics, rated current, voltage level, quantity, etc.;
2. For special orders, please consult our company's technical department.

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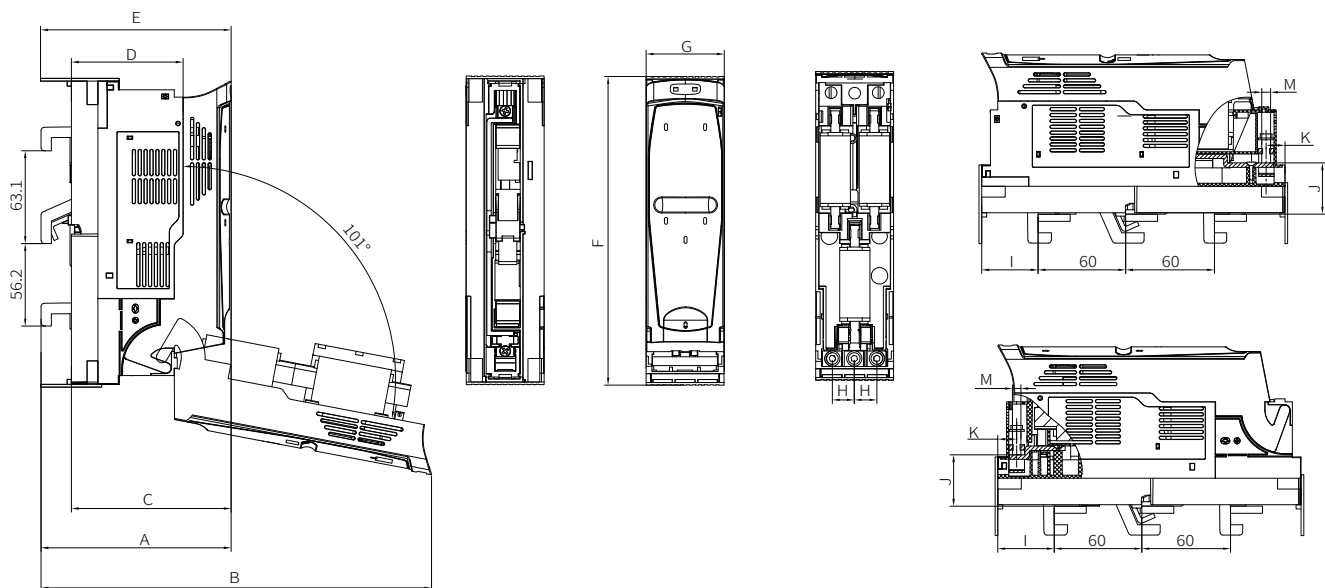
Normal Operating Conditions

Operating Temperature	-20°C ~ +40°C. If the ambient air temperature exceeds +75°C or is below -40°C, the user should consult the manufacturer.
Storage Temperature	-50°C~+85°C
Relative Humidity	The relative humidity of the atmosphere shall not exceed 50% at an ambient temperature of +40°C. A higher relative humidity is permissible at lower temperatures. For example, at an ambient air temperature of +20°C, the relative humidity may reach 90%. For occasional condensation due to temperature changes, the user should take special protective measures.
Altitude	≤4000m. Derating is required when installed at altitudes between 4000m and 5000m. Derating factors are shown in Table 1.
Pollution Degree	3
Installation Conditions	The switch shall be installed in a location free from significant shaking, impact vibration, and rain/snow intrusion. The installation site shall be free of explosive hazardous substances, and the medium shall contain no gases or dust sufficient to corrode metals or damage insulation.

Table 1: Altitude Derating Factors

Altitude(m)	4000	4500	5000
Current Derating Factor	1	0.94	0.9
Voltage Derating Factor	1	0.9	0.8

Overall Dimensions(mm)



A	B	C	D	E	F	G	H	I	J	K	M
129	265.8	108.7	76	130	210	53	15.7	38.5	35	13	6