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NFG50DK

DC relay



Series product photograph. Nameplate and configuration depend on the selected model.

Contactor Model	NFG50DK
Rated Control Current	50A at 450V DC-1
Coil Voltage	DC12V / DC24V / DC48V
Contacts	1NO
Contact Operating Voltage Range	12-1000V DC; see load-life conditions

NewTrend NFG50DK DC Relay

50A at 450V DC-1 · Normally open main contact

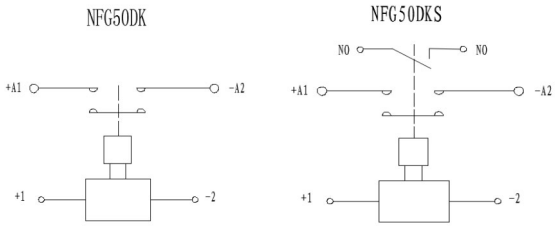
Main contact form	One normal open
Operating voltage of contact (V (DC))	12–1000
Rated control capacity	50A 450V (DC-1)
Rated short-time withstand current and duration	100A 300s
Additional short-time withstand condition	200A 30s
contact voltage drop (mV)	≤80@50A
Action time (including contact bounce) (ms)	≤25
release time (ms)	≤12
Contact bounce time (ms)	≤6
Maximum breaking current (only one breaking allowed)	350A, 80V
Load life (non-polarized, pure resistive load) (time)	50A, 450V / 5000
Additional load-life condition	50A, 750V / 2000
Additional load-life condition	50A, 1000V / 1000
insulation resistance (MΩ)	100 (under the condition of 500V (DC))
Withstand Voltage (V (AC))	2200V (AC) 50 Hz/60 Hz (Leakage current ≤1mA)
Operating Temperature (°C)	-40–+85
Operating Humidity	5%–90%
Impact, 11ms, 1/2 sine wave, peak value (G)	20
Vibration, sine wave, 80~2000Hz, peak value (G)	20
Rated duty cycle	Continuous working duty
Weight (approximately) (g)	170
Installation method	arbitrary

Coil specifications

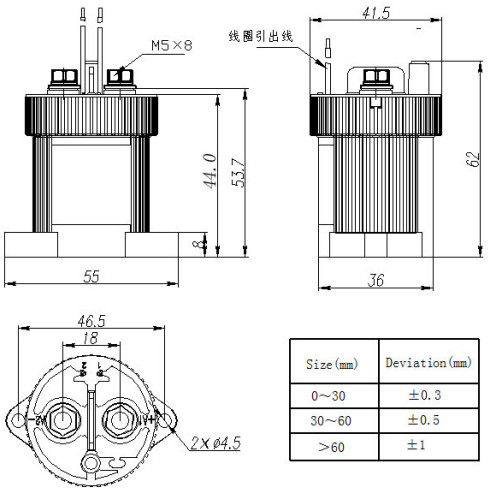
Coil type	Non-energy-saving type
Rated voltage of coil (Us)	12V (DC) / 24V (DC) / 48V (DC)
Operating voltage range (@20°C)	85%Us–110%Us
Pickup voltage (V (DC)) @20°C	≤9 / ≤18 / ≤36
Release voltage (V (DC)) @20°C	≥1 / ≥2 / ≥4
Maximum surge current of coil (A)	/ / / / /
Maximum surge time (ms)	/ / / / /
Coil holding current (A) @20°C	≤0.6 / ≤0.3 / ≤0.15
Coil holding power (W) @20°C	≤6 / ≤6 / ≤6

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Connection and mounting drawings

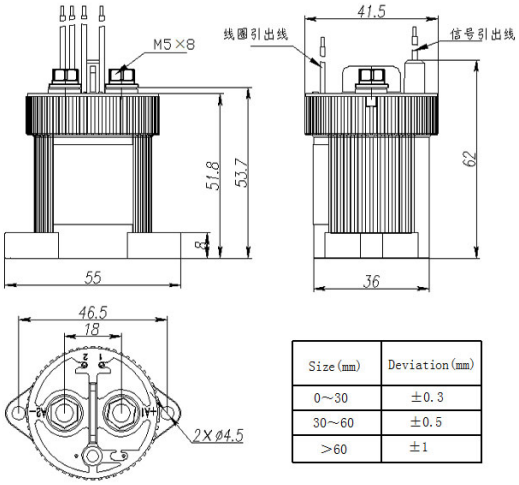


1）NFG50DK



Size(mm)	Deviation(mm)
0～30	±0.3
30～60	±0.5
>60	±1

2）NFG50DKS



Size(mm)	Deviation(mm)
0～30	±0.3
30～60	±0.5
>60	±1

Supplementary technical sheet compiled from the exact manufacturer web product data.