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NFG500A

DC relay



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

Contactor Model	NFG500A
Rated Control Current	500A at 450V DC-1
Coil Voltage	DC12V / DC24V
Contacts	1NO
Contact Operating Voltage Range	12-1000V DC; see load-life conditions

NewTrend NFG500A DC Relay

500A at 450V DC-1 · Normally open main contact

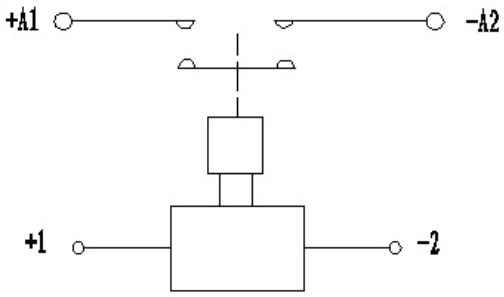
Main contact form	One normal open
Contact working voltage (V (DC))	12–1000
Rated control capacity	500A 450V (DC-1)
Rated short-time withstand current and duration	600A 1200s
Additional short-time withstand condition	800A 300S
contact voltage drop (mV)	≤ 80 @ 100A current
Action time (including contact bounce) (ms)	40 Max.
release time (ms)	12 Max.
Contact bounce time (ms)	6 Max.
Maximum breaking current (only once on/off)	5000; 100V
Transform the electrical life of the load (non-polar, purely resistive load) (time)	500A, 450V / 5000 times
Additional load-life condition	500A, 750V / 1500 times
Additional load-life condition	500A, 1000V / 1000 times
Auxiliary contact (Optional) (contact form)	/ / one normal open
Contact load rating	2A/30V (DC), 3A/125V (AC)
Minimum value of contact load	100mA/8V
insulation resistance (MΩ)	100 (under 500V (DC) conditions)
Withstand Voltage (V (AC))	3500V (AC) 50 Hz/60 Hz (leakage current ≤ 1mA) 1000V (AC) 50Hz/60Hz (between auxiliary contacts)
Operating Temperature (°C)	-40–+85
Operating Humidity	5%–90%RH
altitude (m)	4000
Shock, 11ms, 1/2 sine wave, peak value (G)	20
Vibration, sine wave, 80-2000Hz, peak value (G)	20
Rated working duty	Continuous working duty
Weight (approximately) (g)	922
Installation method	arbitrary

Coil specifications

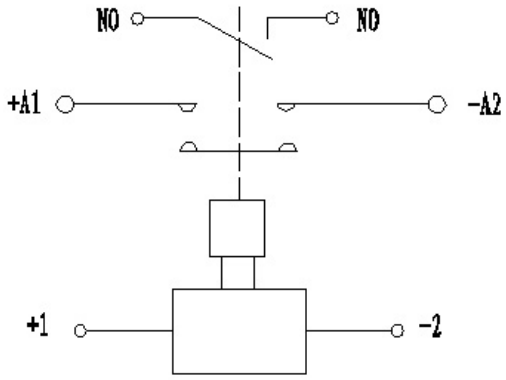
Working voltage of coil (V (DC))	12 / 24
Maximum coil voltage (V (DC))	36 / 36
Maximum surge current of coil (A)	4.5 / 4.5
Maximum surge time (ms)	≤110 / ≤110
Coil maintenance power (W)	≤10 / ≤10
Pick up voltage (V (DC))	≤9 / ≤9
Release voltage (V (DC))	≤6 / ≤6
Coil polarity	non-polarity

Connection and mounting drawings

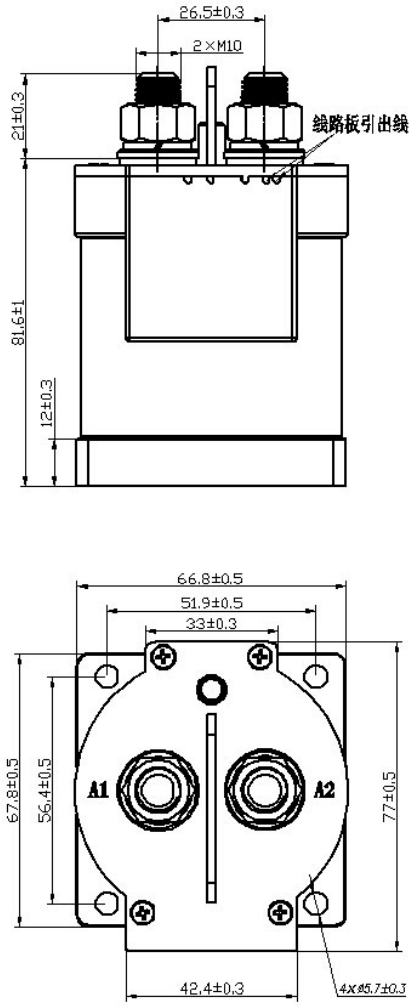
NFG500A



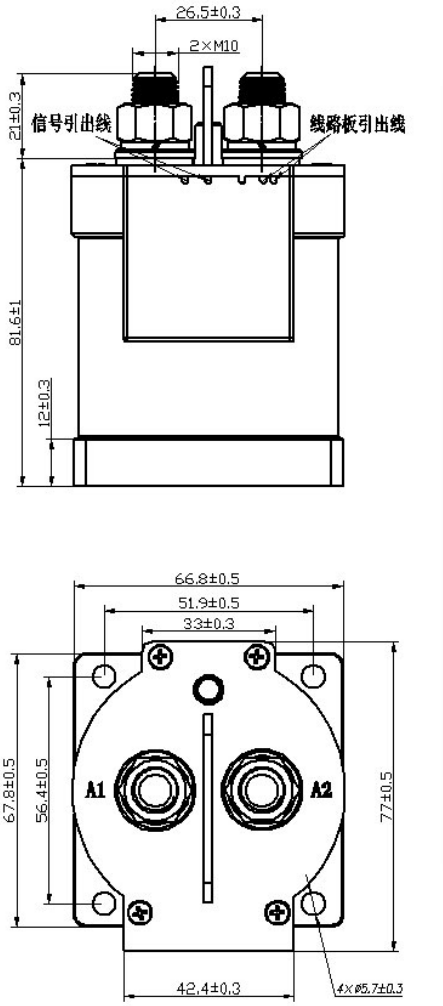
NFG500AS



1）NFG500A



2）NFG500AS



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