

# MOOG

## NF123-207A1 Series Relay Card

### SPECIFICATIONS

#### Power Supply:

± 15VDC Regulated  
+ 24VDC

#### Relays:

##### K1:

consumption = 15 mA @ 24VDC  
contact rating = 2 A/30VDC  
contact = SPDT  
operate time = 10 ms max  
release time = 10 ms max

##### K2:

consumption = 25 mA @ 24VDC  
contact rating = 2 A/30VDC  
contacts = 4 x SPDT  
operate time = 3 ms max  
release time = 10 ms max

#### Temperature Range:

10°C to 50°C (50°F to 120°F)

#### Connector:

DIN 41612 style C

#### Form Factor:

Eurocard 100 x 160 mm, 7HP, 3 U

#### Weight:

0.28 lb. (0.127 kg)

The NF123-207A1 Relay Card contains a potentiometer and resistor voltage divider that allow adjustment of the output voltage from between +15V and -15V. The output voltage can also be switched with an externally controlled relay.

The NF123-207A1 relay card is a forward compatible replacement for the F123-207-A001.



### ADJUSTMENTS

#### P1 Output Voltages

R1, R2 and R3 for desired range and sensitivity.

#### Function Selection

Jumpers select input voltage for potentiometer:

- J1 – external voltage select applied to P1.
- J2 – +15V voltage select applied to P1.
- J3 – -15V voltage select applied to P1.

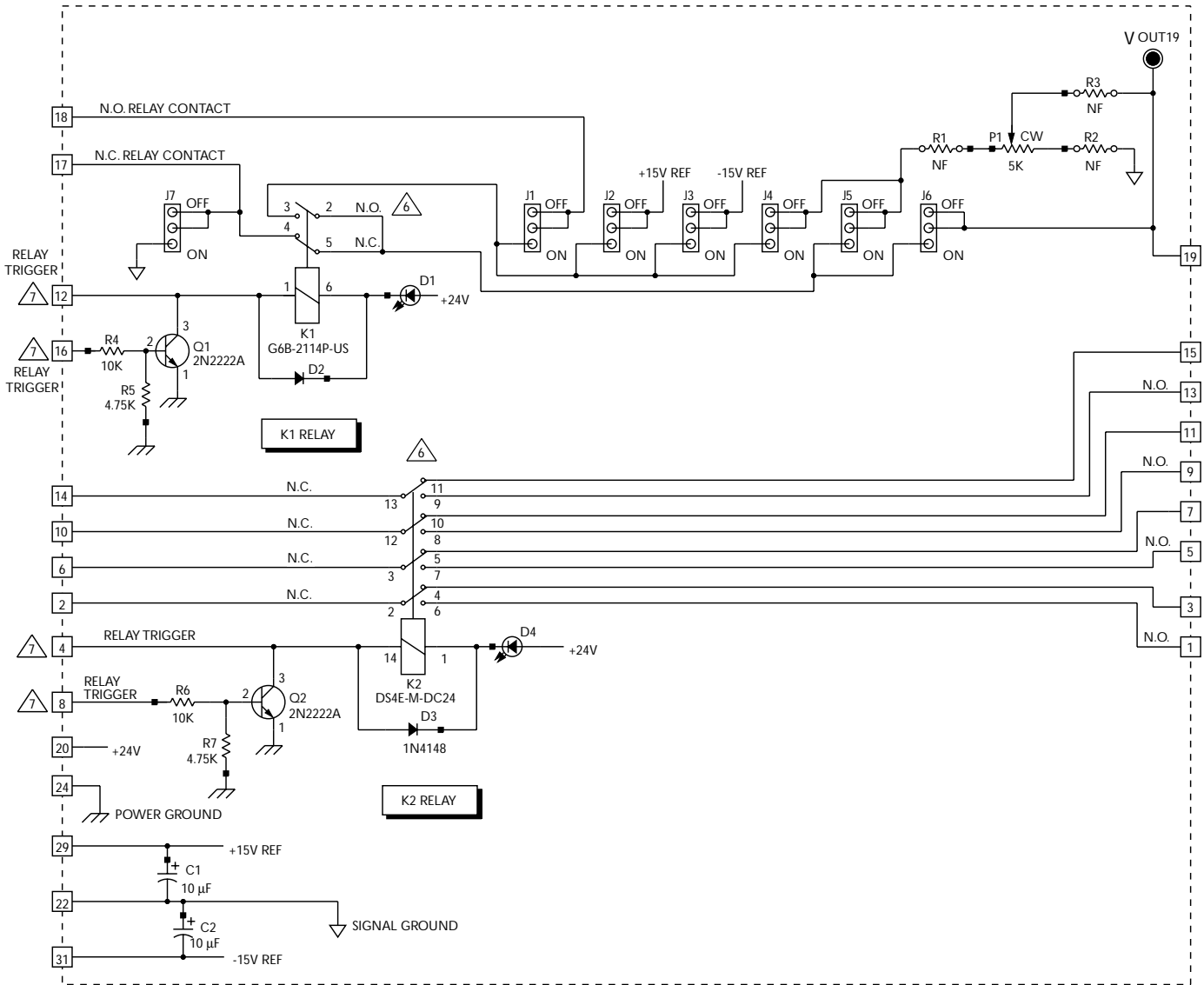
Jumpers select output voltage:

- J4 – output is potentiometer output direct.
- J5 – output is potentiometer switched by relay.
- J6 – output is input voltage switched by relay.
- J7 – relay latch/reset operation

### FEATURES

- One SPDT relay with permaset circuitry
- One 4PDT relay
- Active low or active high circuitry for both relays
- LED front panel relay status

# NF123-207A1 RELAY CARD SCHEMATIC



**NOTES:**

- 1. NF = NOT FURNISHED
- 2. ■ = PIN 1 (SQUARE PAD ON PCB)
- 3. ⊙ = COMPONENT MOUNTED ON STANDOFF
- 4. ● = TEST POINT (FRONT PANEL)
- 5. CW = CLOCKWISE
- △ N.O. - NORMALLY OPEN CONTACT
- ▽ N.C. - NORMALLY CLOSED CONTACT

**△ K1 & K2 - RELAY LOGIC OPERATION:**

RELAY K1 AND K2 MAY BE OPERATED IN EITHER OF TWO ACTIVATION STATES NAMEDLY ACTIVE-LOW OR ACTIVE HIGH. TO ENERGIZE RELAY IN **ACTIVE-LOW** STATE, CONNECT PIN-12 (OF K1 RELAY) OR PIN-4 (OF K2 RELAY) TO PIN-22 (SIG GND). FOR **ACTIVE-HIGH** STATE, CONNECT +5 TO +15VDC TO PIN-16 (BASE OF Q1) FOR K1 RELAY OR TO PIN-8 (BASE OF Q2) FOR K2 RELAY.

**NOTE:**

AN "EXTENDER CARD" IS HIGHLY RECOMMENDED TO GAIN ACCESS TO TEST POINTS AND ADJUSTMENTS WHILE CARDS ARE POWERED-UP WITHIN A EUROCARD RACK ASSEMBLY. (MOOG REF P/N A81750-1)

The products described herein are subject to change at any time without notice, including, but not limited to, product features, specifications, and designs.

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