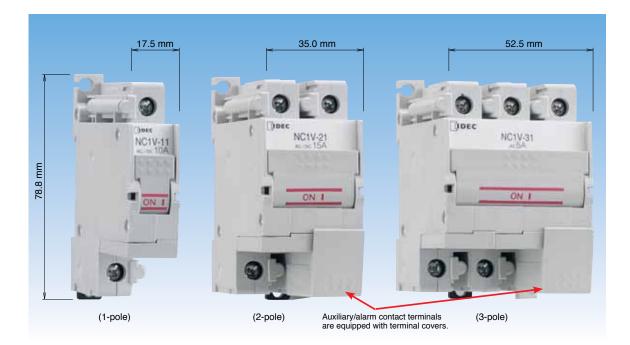


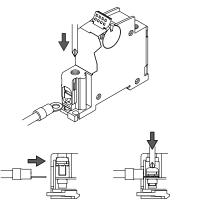
IDEC CORPORATION

IDEC's original Spring-up Terminals and Cover Provide IP20 Finger-safe Protection.



Finger-safe, spring-up terminals reduce wiring time.

Ring terminal tabs can be installed easily, and screws are held secure.

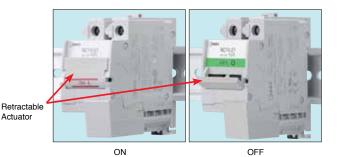


Main Circuit Terminals are Fingersafe (IP20)

Spring-up, fingersafe structure requires no terminal cover.

Retractable Actuator

The actuator retracts when the circuit protector turns on. Inadvertent operation, due to touching the actuator, is prevented. Status of the circuit protector can easily be confirmed by viewing the position of the actuator.



Slim Housing Saves Space

| 1-pole | 17.5mm Wide |
|--------|-------------|
| 2-pole | 35.0mm Wide |
| 3-pole | 52.5mm Wide |
| | |

Auxiliary/Alarm Contact Terminals are Equipped with a Terminal Cover

Voltage coil terminals on the relay trip version are also equipped with a terminal cover as standard.

Auxiliary/Alarm Contact, and Relay Trip Voltage Coil Terminals are Equipped with a Terminal Cover.

35mm-wide DIN Rail Mounting or Direct Panel Mounting



Distinguishing Characteristics

Wide variety of rated currents and tripping curves. One and 2-pole models are AC/DC compatible and allow for a reduction in inventory.

Rated Short-circuit Capacity 2500A

Available with Inertia Delay

Allows for use with large inrush currents such as motors and lamps.

Safe Trip-free Mechanism

The circuit remains open even when the operator is turned on after tripping (unit must be manually reset after removing the cause of the tripping).

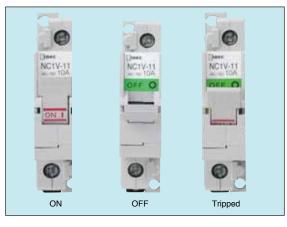
Available with Auxiliary or Alarm Contacts

Conforms to various international standards



After tripping, the retractable actuator is in the middle position.

Circuit protector must be turned off before it can be reset.





Auxiliary or Alarm Contact (Shown without terminal cover.)



NC1V Circuit Protectors

IDEC's original spring-up, fingersafe terminals enhance reliability and safety.

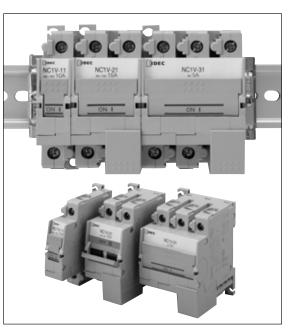
- Integrated electric shock protection structure (IP20).
- Auxiliary/alarm contact terminals and voltage coil terminals on the relay trip types are equipped with terminal covers.
- Spring-up, fingersafe terminals reduce wiring time.
- Ring terminals can be installed. Captive terminal screws.
- Available with inertia delay
- · Available with auxiliary or alarm contacts
- Rated short-circuit capacity: 2500A
- Slim, space-saving housing 1-pole: 17.5mm wide
 2-pole: 35.0mm wide
 3-pole: 52.5mm wide

- Retractable actuator
- The trip-free mechanism maintains the circuit open even when the operator is turned on after tripping.

| Applicable Standards | Certification Mark | | Certification Organization (File No.) |
|--|--------------------|-----------------|--|
| UL1077 | 8 | °. | E68029 |
| CSA C22.2 No. 235 | (f) | • | LR83454 |
| EN60934 | e |) | B07 09 13332 063 |
| EN00934 | CE | | European Commission's Low Voltage Directive |
| GB17701-1999 | |) | No. 2008010307265840 |
| Electrical Applicance and Material Safety Law | Series Trip | ₽ S ■ | JET |
| Technical Standard | Relay Trip | PS | JEI |

Note: TÜV, CE, and CCC marks are applicable for series trip type only.

Specifications



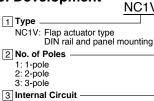
55°C 60°C

0.8 0.7

| Operator Style | | Retractable actuator | | | | |
|--|--|---|-------------------------------------|-------------------------|--|--|
| Internal Circuit | | Series trip (current trip), Relay trip (voltage trip) | | | | |
| Protection Method | | Hydraulic magnetic tripping system, Ma | agnetic tripping system (voltage tr | ip) | | |
| No. of Poles | | 1-pole | 2-pole | 3-pole | | |
| Rated Voltage (AC | /DC) (Note 1) | 250V AC 50/60Hz, 65V DC | 250V AC 50/60Hz, 125V DC | 250V AC, 50/60Hz | | |
| о. · т. | Rated Short-circuit Capacity | 250V AC, 2500A 65V DC, 2500A | 250V AC, 2500A 125V DC, 2500A | 250V AC, 2500A | | |
| Series Trip (Current Trip) | Rated Current | 0.1A, 0.3A, 0.5A, 1A, 2A, 3A, 5A, 7A, 1 | 0A, 15A, 20A, 25A, 30A | | | |
| | Operation Characteristics (Note 2) | Time delay curve curve M (slow), curve Curves M and A are avilable with inertia | | | | |
| Relay Trip | Rated Current | 30A | | | | |
| (Voltage Trip) (Note 3 |) Trip Voltage | 24 to 48V DC (at 25°C) Voltage application duration 10 sec ma | ximum, tripping time 0.1 sec max | imum (at rated voltage) | | |
| Auxiliary Contact/ | Contact Rating | 125V AC 3A (resistive load), 30V DC 2A (resistive load) | | | | |
| Alarm Contact | Minimum Applicable Load | 24V DC 1mA (resistive load, reference value) | | | | |
| Insulation Resistan | се | 100 MΩ minimum (500V DC megger) | | | | |
| Dielectric Strength | | 2000V AC, 1 minute (between terminals when main contacts are open, between live parts of different poles, between live and dead parts) 600V AC (between terminals when auxiliary circuits are open) | | | | |
| Vibration Resistand (with rated current | - | Damage limits: 147 m/s² (10 to 55 Hz) (1-pole, 2-pole), 78 m/s² (3-pole) Operating extremes: 98 m/s² (1-pole, 2-pole), 78 m/s² (3-pole) | | | | |
| | e: 80% rated current, ve: 100% rated current) | Damage limits: 490 m/s ² (1-pole, 2-pole), 297 m/s ² (3-pole) Operating extremes: 196 m/s ² (S, A, M types) | | | | |
| Electrical Life | | 10,000 cyles minimum (at rated curent), 10 operations per minute | | | | |
| Reference Temper | ature | 40°C | | | | |
| Operating Temppe | rature | -10 to +60°C (no freezing) Rated current is based on an ambient temperature of 40°C. When the operating temperature exceeds 40°C, derate the rated current by using the factors shown below. | | | | |
| Operating Humidity | / | 45 to 85% RH (no condensation) | | | | |
| | lain Circuit Terminal | Spring-up, fingersafe terminal: M4 scre | w (up to 20A), M5 screw (25A an | d 30A) | | |
| | inal Style Auxiliary/Alarm Contacts, Voltage Coil Terminal M3.5 screw | | | | | |
| Weight (approx.) | | 1-pole: 90g, 2-pole: 170g, 3-pole: 260g | | | | |

To avoid unnecessary tripping, do not use in circuits where inrush currents may be present. Note 3: Relay trip (voltage trip) type is not equipped with an overcurrent trip function. • Do not use the NC1V circuit protectors in environments where they are exposed to extreme temperature, humidity, dust, corrosive gases, vibration, shock, or in a circuit where inrush current may be present, otherwise unnecessary operations and damage may occur.

Type No. Development

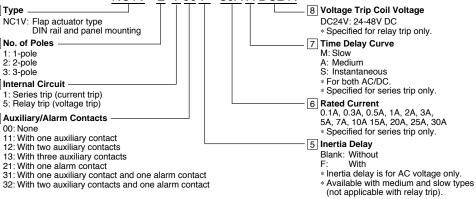


1: Series trip (current trip) 5: Relay trip (voltage trip)

4 Auxiliary/Alarm Contacts

00: None 11: With one auxiliary contacts 12: With two auxiliary contacts 13: With three auxiliary contacts

NC1V - 2 1 00 F - 30A A DC24V



Types

• Specity rated current, time delay curve, or voltage trip coil voltage in place of 6 78 in the Ordering Type No.

| Internal | No. of | Inertia | Auxiliary Contact | | | | Code | |
|-------------------------------|--------|---------|---|-------------------|----------------------|------------------------|---|--------------------------------|
| Circuit | Poles | Delay | Alarm Contact | Ordering Type No. | Applicable Standards | 6 Rated Current | 7 Time Delay Curve | 8 Voltage Trip Coil Voltage |
| | | | - | NC1V-1100-67 | ₽¥@.@((@⊘ | | | |
| | | - | One Auxiliary Contact | NC1V-1111-67 | ₽¥@.@((@@⊘ |] | | |
| | 1 0010 | | One Alarm Contact | NC1V-112167 | ₽¥@.@((@@⊘ |] | | |
| | 1-pole | | - | NC1V-1100F-67 | ₽¥@.@((@⊘ | 1 | | |
| | | With | One Auxiliary Contact | NC1V-1111F-67 | <i>₽</i> ¥@.@((@@⊘ | 1 | | |
| | | | One Alarm Contact | NC1V-1121F-67 | ₽¥@.@((@@⊘ |] | | |
| | | | - | NC1V-2100-67 | ₩@.@((@) |] | | |
| | | | One Auxiliary Contact | NC1V-2111-67 | <i>₽</i> ¥@.@((@@⊘ | 1 | | |
| | | _ | Two Auxiliary Contacts | NC1V-2112-67 | R @.@((<> | 1 | | |
| | | | One Alarm Contact | NC1V-2121-67 | <i>₽</i> ¥@.@((@@⊘ | 1 | | |
| | | | One Auxiliary Contact and One Alarm Contact | NC1V-2131-67 | ₽₩@.@((♦ | | | |
| | 2-pole | | - | NC1V-2100F-67 | ₩@.@((@) | 1 | | |
| | | | One Auxiliary Contact | NC1V-2111F-67 | %®.@((@) | 0.1A 0.3A | M (slow) A (medium) S (instantaneous) | |
| | | With | Two Auxiliary Contacts | NC1V-2112F-67 | FN:@.@((<> | 0.5A 1A | | |
| | | | One Alarm Contact | NC1V-2121F-67 | ₩@.@((@) | 2A 3A | | |
| Series Trip (Current Trip) | | | One Auxiliary Contact and One Alarm Contact | NC1V-2131F-67 | <i>FN</i> @.@((| 5A 7A 10A 15A | | - |
| | | | _ | NC1V-3100-67 | ₽¥@.@((@) | | | |
| | | | One Auxiliary Contact | NC1V-3111-67 | ₽¥@.@((@⊘ | 20A 25A | | |
| | | | Two Auxiliary Contacts | NC1V-3112-67 | \$10.0((| 30A | | |
| | | _ | Three Auxiliary Contacts | NC1V-3113-67 | ₩®.@(€ <> |] | | |
| | | | One Alarm Contact | NC1V-3121-67 | ₽₩®.0((@) | | | |
| | | | One Auxiliary Contact and One Alarm Contact | NC1V-3131-67 | <i>¶</i> V@.@((<> | | | |
| | 0 | | Two Auxiliary Contacts and One Alarm Contact | NC1V-3132-67 | FN:@.@((|] | | |
| | 3-pole | | - | NC1V-3100F-67 | <i>₽</i> ¥@.@(€@(\$ | 1 | | |
| | | | One Auxiliary Contact | NC1V-3111F-67 | ₩@.@((@) | 1 | | |
| | | | Two Auxiliary Contacts | NC1V-3112F-67 | R @.@((* | 1 | | |
| | | With | Three Auxiliary Contacts | NC1V-3113F-67 | FN:@.@((<> | 1 | | |
| | | | One Alarm Contact | NC1V-3121F-67 | ₩@.@((@) | 1 | | |
| | | | One Auxiliary Contact and One Alarm Contact | NC1V-3131F-67 | ₽₩@.@((♦ | | | |
| | | | Two Auxiliary Contacts and One Alarm Contact | NC1V-3132F-67 | <i>FN</i> @.@((| 1 | | |
| | 1-pole | | | NC1V-1500-8 | FL () | | | |
| Relay Trip (Voltage Trip) | 2-pole | _ | - | NC1V-2500-8 | 91 (B . (P) |] – | - | DC24V |
| · ···· | 3-pole | | | NC1V-3500-8 | FN () |] | | |

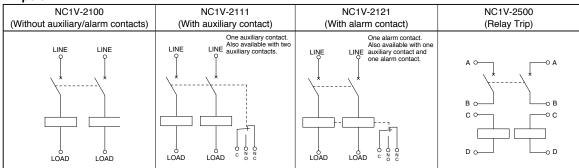
Note: Inertia delay is for AC circuit. Also, time delay curve of S (instantaneous) is not available with inertia delay.

Internal Circuit

• 1-pole

| NC1V-1100 | NC1V-1111 | NC1V-1121 | NC1V-1500 |
|------------------------------------|-----------------------------|-------------------------|---------------------------------------|
| (Without auxiliary/alarm contacts) | (With auxiliary contact) | (With alarm contact) | (Relay Trip) |
| | LINE One auxiliary contact. | LINE One alarm contact. | × × × × × × × × × × × × × × × × × × × |

• 2-pole



Note: Those with two auxiliary contacts and with one auxiliary contact and one alarm contact have been applied for UL and CCC.

• 3-pole

| NC1V-3100 (Without auxiliary/alarm contacts) | NC1V-3111 (With auxiliary contact) | NC1V-3121 (With alarm contact) | NC1V-3500 (Relay Trip) | |
|---|---|--|---|--|
| | One auxiliary contact. Also available with two or three auxiliary contacts. | One alarm contact. Also available with one auxiliary and one alarm contacts, and two auxiliary and one alarm contacts. | | |
| LINE LINE LINE | LINE LINE LINE , , , , , , , , , , , , , , , , , , , | LINE LINE LINE | A O A A A A A A A A A A A A A A A A A A | |

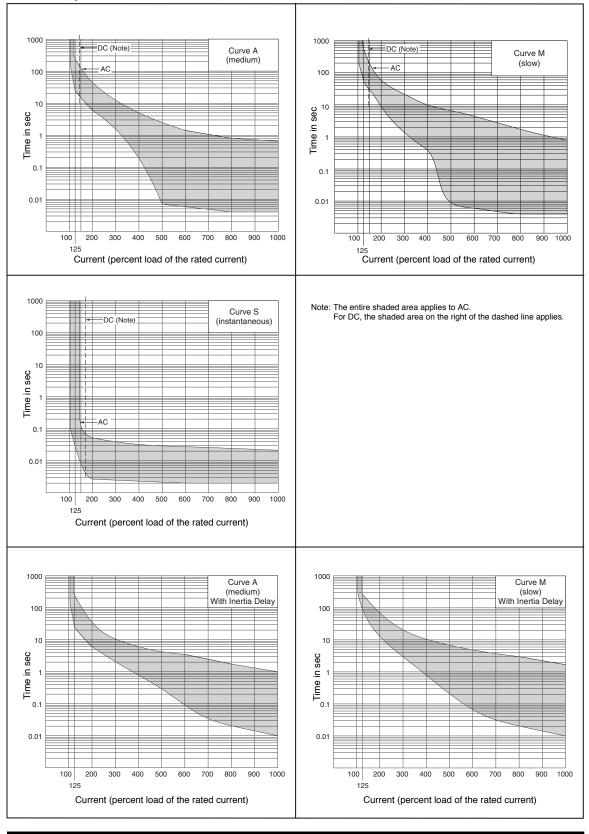
Note: Those with two or three auxiliary contacts, with one auxiliary contact and one alarm contact, and with two auxiliary contacts and one alarm contacts have been applied for UL and CCC.

Overcurrent-Time Delay Characteristics (sec at 40°C) [vertical mounting]

| Item Time Delay Curve | | Percent of Rated Current | | | | | | | | |
|-----------------------|----------------------------------|--------------------------|------------|------------------|------------------|-------------------|------------------|-------------------|-------------------|-------------------|
| itein | Time Delay Curve | 100% | 125% | 150% | 175% | 200% | 400% | 600% | 800% | 1000% |
| | S (instantaneous) | NO TRIP | — | *0.005 to 0.1 | 0.003 to 0.06 | 0.0027 to 0.05 | 0.002 to 0.03 | 0.002 to 0.028 | 0.002 to 0.025 | 0.002 to 0.022 |
| AC (50/60 Hz)/DC | A (medium) | NO TRIP | *25 to 240 | 16 to 140 | _ | 6 to 32 | 0.4 to 4 | 0.0055 to 1.5 | 0.004 to 0.8 | 0.004 to 0.65 |
| | M (slow) | NO TRIP | *60 to 600 | 30 to 200 | — | 9 to 60 | 0.4 to 10 | 0.006 to 4.5 | 0.004 to 1.8 | 0.004 to 0.8 |
| | With Inertia Delay A (medium) | NO TRIP | 25 to 240 | _ | _ | 6 to 32 | 0.8 to 6 | 0.09 to 3.5 | 0.02 to 1.8 | 0.01 to 1.0 |
| AC (50/60 Hz) | With Inertia Delay M (slow) | NO TRIP | 60 to 600 | — | _ | 10 to 60 | 0.8 to 10 | 0.06 to 4.5 | 0.02 to 3 | 0.01 to 1.75 |

*: MAY TRIP on DC

Time Delay Curves at 40°C

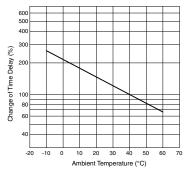


Time Delay Curve and Ambient Temperature

NC1V circuit protectors employ an electromagnetic tripping system, where the rated current (trip current) is not affected by ambient temperatures. But the time delay may vary with the oil viscosity in the oil dash pot. Lower oil viscosity at higher temperatures results in a shorter delay, whereas at lower temperatures the delay will be longer.

Temperature Correction Curve

The time delay curves on the preceding page are measured at 40°C. With reference to the following curves, time delays can be corrected according to ambient temperature.



The time delay is based on an ambient temperature of 40° C. Time delays at other temperatures are corrected according to the temperature correction curve. The time delay of the instantaneous time delay curve (S) is not affected by the ambient temperature.

When operating temperature exceeds 40°C, derate the rated current by multiplying the derating factor shown on the right.

| Operating Temp. | Derating Factor |
|--------------------|--------------------|
| 50°C | 0.9 |
| 55°C | 0.8 |
| 60°C | 0.7 |

at 25°C

at 25°C

Impedance and Coil Resistance

• Series Trip (Current Trip)

| Rated Current | For AC 50/60 Hz Impedance (Ω) | | | DC Ince (Ω) | | |
|------------------|----------------------------------|-------------|---------|----------------|--|--|
| Guilent | Curve S | Curves A, M | Curve S | Curves A, M | | |
| 0.1A | 66.0 | 116.0 | 43.0 | 106.0 | | |
| 0.3A | 6.6 | 11.0 | 4.1 | 10.0 | | |
| 0.5A | 1.92 | 3.65 | 0.86 | 3.40 | | |
| 1A | 0.50 | 0.93 | 0.25 | 0.90 | | |
| 2A | 0.16 | 0.27 | 0.11 | 0.25 | | |
| ЗA | 0.07 | 0.12 | 0.050 | 0.11 | | |
| 5A | 0.025 | 0.050 | 0.015 | 0.045 | | |
| 7A | 0.014 | 0.027 | 0.011 | 0.025 | | |
| 10A | 0.007 | 0.021 | 0.005 | 0.020 | | |
| 15A | 0.006 | 0.010 | 0.005 | 0.009 | | |
| 20A | 0.005 | 0.006 | 0.004 | 0.005 | | |
| 25A | 0.004 | 0.005 | 0.004 | 0.005 | | |
| 30A | 0.003 | 0.004 | 0.003 | 0.004 | | |

Tolerance: ±25% (up to 20A), ±50% (25A and 30A)

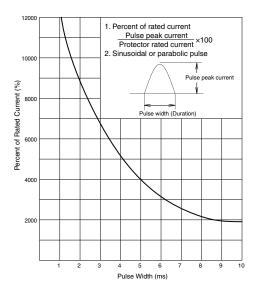
Relay Trin (Voltage Trin)

| • Relay Thp (Voltag | |
|---------------------|--------------------------|
| Tripping Voltage | For DC Resistance (Ω) |
| 24-48V | 100.0 |

Tolerance: ±25%

Inertia Delay

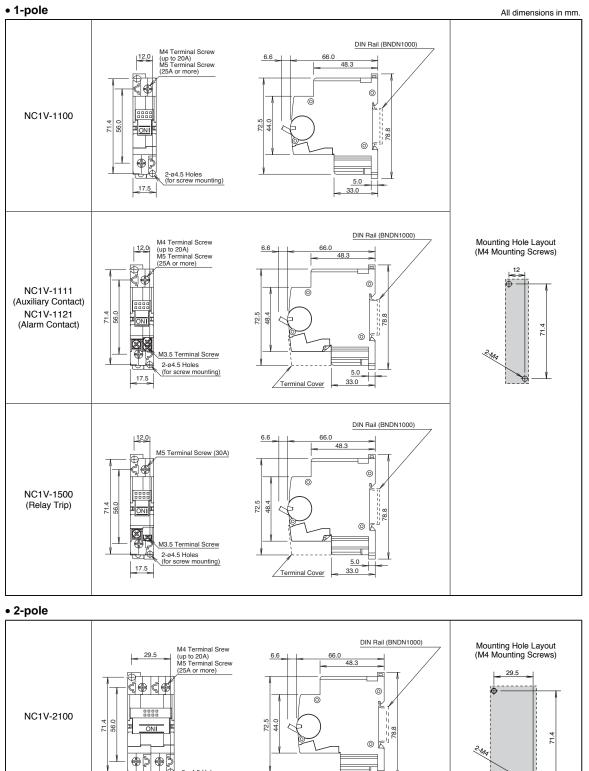
Inertia delay is designed not to trip on a non-repeating single pulse of 20 times the rated current (peak value) for a duration of 8 ms. In addition, circuit protectors equipped with inertia delay do not respond to high inrush currents caused by transformer or lamp loads, but perform the specified interruption on the subsequent overcurrents. Inertia delay is available on AC circuits, and is not available with the series trip curve S (instantaneous).



Voltage Drop Due to Coil Resistance or Impedance

The internal resistance or impedance of a circuit protector tends to be larger for a smaller rated current. Therefore, when circuit protectors of a small rated current are used, voltage drop should be taken into consideration. Internal resistance also varies with time delay curves, which should also be considered during installation.

Dimensions



9

Ф

2-ø4.5 Holes (for screw mounting)

J.C.

35.0

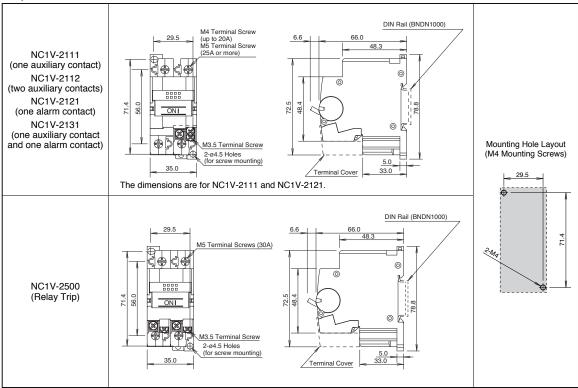
Ŧ

33.0

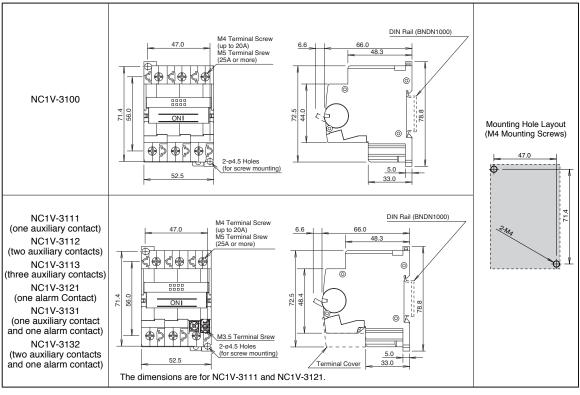
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NC1V Circuit Protectors

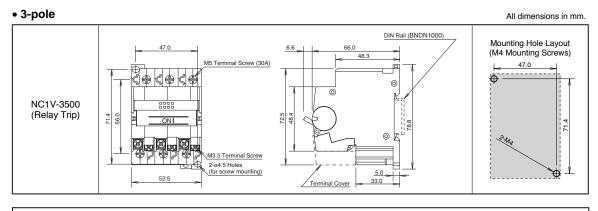




• 3-pole



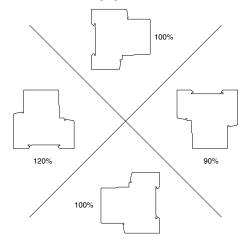
IDEC



Instructions

• Installation Angle

Tripping method is hydraulic magnetic. Minimum operating current varies with installation angle. Operating currents are influenced by the weight of movable iron core. With reference to the following figures, correct the rated current.



Minimum operating current is calculated from the following formula:

(Minimum operating current) = (Rated current) \times (Correction factor by installation angle) \times (Reference minimum tripping current rate)

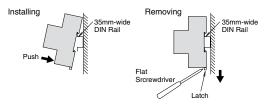
• DIN Rails

[Installation on DIN Rail]

- 1. Fasten the DIN rail securely.
- 2. With the latch facing downward, install the NC1V circuit protector on the DIN rail as shown below.

[Removal from DIN Rail]

Using a flat screwdriver, pull the latch on the circuit protector to remove from the DIN rail.



• Applicable Wire and Crimp Terminal

| Applicable the and entip terminal | | | | | |
|---|--|--|------------------------------------|-------------------------------|--|
| Terminal | Terminal Screw | Connectable Wire Size (mm ²) | Applicable Crimping Terminal | Tightening Torque (N·m) | |
| | Spring-up, fingersafe, | 0.25 to 1.65 | R1.25-4 | | |
| s uit | slotted Phillips screw with square washer | 1.04 to 2.63 | R2-4 | 1 to 1.4 | |
| Dirc | (up to 20A) | 2.63 to 6.64 | R5.5-4 | | |
| Main Circuit Terminals | Spring-up fingersafe | 0.25 to 1.65 | R1.25-5 | | |
| ΒĻ | terminal | 1.04 to 2.63 | R2-5 | 1.8 to 2.2 | |
| | (25A and 30A) | 2.63 to 6.64 | R5.5-5 | | |
| Auxiliary Contact Auxiliary Contact Alatem Contact Alatem contact Terminals I Terminals I Terminals | | 0.25 to 1.65 | R1.25-3.5 | 0.7 to 0.9 | |
| Auxiliary Alarm (Voltag Term | with square washer | 1.04 to 2.63 | R2-3.5 | 0.7 10 0.9 | |
| | For wiring the main circuit terminal, use the applicable crimp terminals and | | | | |

• For wiring the main circuit terminal, use the applicable crimp terminals and tighten to the recommended torque.

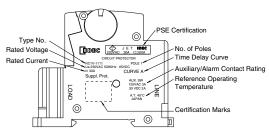
 When using the NC1V circuit protector as CSA-certified product, use with CSAcertified crimp terminal.

When using the NC1V circuit protector as UL-listed product, use with UL-listed crimp terminal.

Panel Mounting Screw (not supplied)

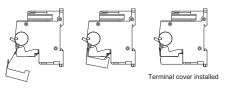
| - | | | |
|---|-----------|-------------------|---------------|
| | Srew Type | Tightening Torque | Shape |
| | M4 | 0.8 to 1.0 N·m | Spring Washer |

Product Markings (Example: NC1V-1111-30AA)



Installation of Auxiliary/Alarm Terminal Cover

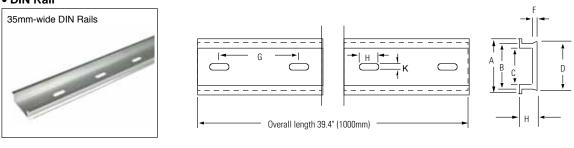
After wiring the terminals, install the terminal cover by aligning with the circuit protector as shown below.



IDEC

Accessories

• DIN Rail



| Length | Part No. | Material |
|--------|----------|----------|
| 1000mm | BNDN1000 | Aluminum |

• End Clip

| OB S | Part No. | Applicable Rail | Material | Package Quantity |
|---|----------|-----------------|--|------------------|
| The second se | BNL6 | BNDN1000 | Galvanized Trivalent Chromate Treatment | 10 |
| 9mm wide 🐂 | | | | |

Auxiliary/Alarm Terminal Cover



| Type No. Material Package Qua | | Package Quantity |
|-------------------------------|--------------|------------------|
| NC1V-AUX-CV | Nylon (PA66) | 1 |

• Miscellaneous Accessories (available 2009)

| Type No. | Description | |
|-----------|---|--|
| NC9Z-MA11 | Panel Cut-Out Mounting bracket for 1-pole mode | |
| NC9Z-MA21 | Panel Cut-Out Mounting bracket for 2-pole model | |
| NC9Z-MA31 | Panel Cut-Out Mounting bracket for 3-pole model | |
| NC9Z-TA1 | Fast-On Tab terminal Adapter | |
| NC9Z-PW1 | Marking Plate | |
| NC9Z-LK1 | Lock-Out Bracket | |

Specifications and other descriptions in this catalog are subject to change without notice.

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