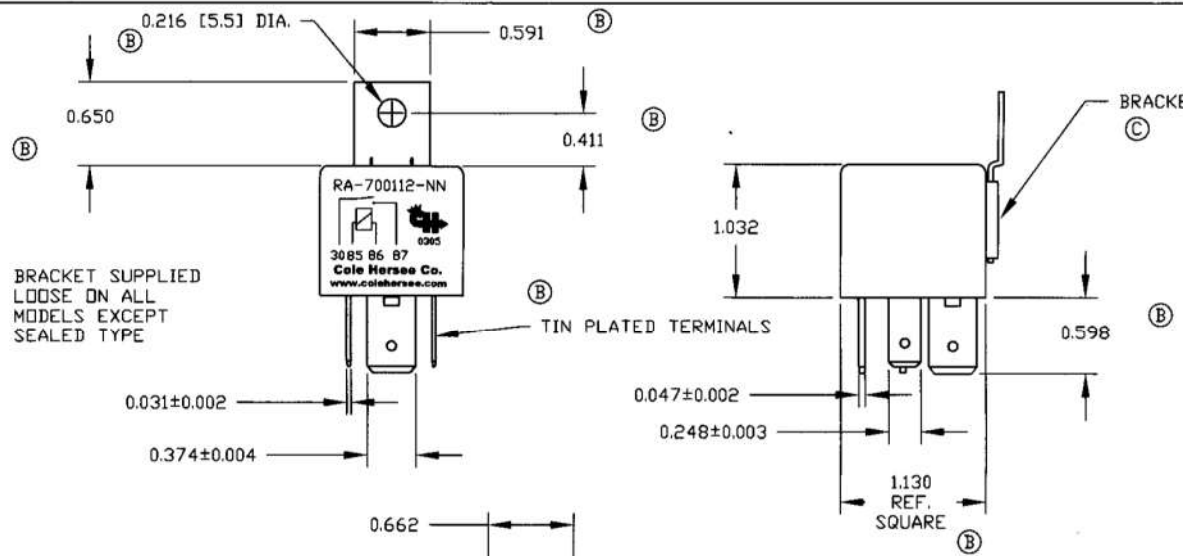


**Revision Control Record**

Rev.	Description of Change	ECN No.	Date
A	NEW REVISION	03267	7/22/03
B	DIMENSIONS & NOTES	03399	9/11/03
C	ADD MODELS WITHOUT BRACKET	04462	11-5-04

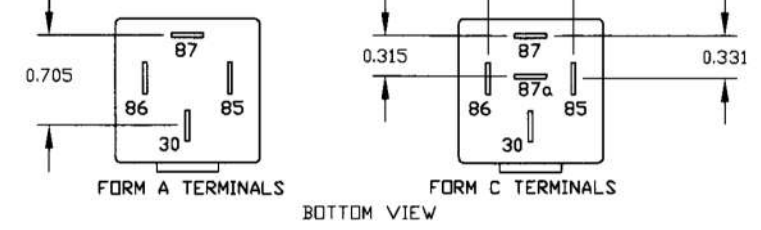


BRACKET SUPPLIED LOOSE ON ALL MODELS EXCEPT SEALED TYPE

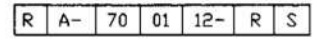
BRACKET RECEPTACLE

**SPECIFICATIONS:**

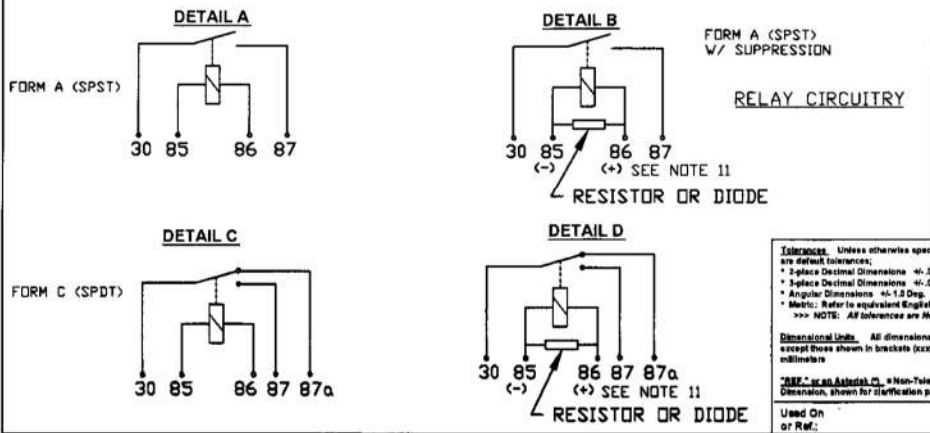
- PULL IN VOLTAGE 7.8 MAX. [ @ 12VDC ], 15.6 MAX. [ @ 24 VDC ]
- RELEASE VOLTAGE 1.2V MIN. [ @ 12VDC ], 2.4 MIN. [ @ 24VDC ]
- MAX VOLTAGE 18VDC FOR 12V RATED RELAY, 36VDC FOR 24VDC.
- TEMPERATURE -40DEG C TO 85 DEG C
- VIBRATION RESISTANCE 10-55 HZ, DOUBLE AMPLITUDE 1.5 MM
- OPERATION LIFE: 100,000 ELECTRICAL, 10,000,000 MECHANICAL
- CONTACT RATING: N.O. 70A @ 14VDC, N.C. 60A @ 14VDC, N.O. 35 @ 24VDC, N.C. 30A @ 24VDC RESISTIVE
- DIELECTRIC STRENGTH: 500V
- COIL RESISTANCE: 80 OHMS ± 10% FOR 12DC, 320 OHMS FOR 24VDC
- RATED CURRENT OF COIL 150mA @ 12VDC, 75mA @ 24VDC.
- POLARITY ONLY REQUIRED ON DIODE VERSION
- MODELS WITHOUT A BRACKET DO NOT HAVE BRACKET RECEPTACLE



**RELAY PART NUMBER STRUCTURE**



- S = SEALED
- N = NOTHING [NO SEALING]
- R = RESISTOR
- D = DIODE
- N = NOTHING [NO SUPPRESSION]
- 12 = 12VDC
- 24 = 24VDC
- 00 = NO BRACKET [NO BRACKET FOR SEALED TYPE]
- 01 = BRACKET
- 70 = 70A [12VDC]
- 35 = 35A [24VDC]
- A = FORM A [SPST]
- C = FORM C [DPDT]
- R = RELAY



**Tolerances:** Unless otherwise specifically noted, the following are default tolerances:  
 \* 3-place Decimal Dimensions -<math>\pm 0.25^\circ</math>  
 \* 3-place Decimal Dimensions -<math>\pm 0.25^\circ</math>  
 \* Angular Dimensions -<math>\pm 1.0\text{ Deg.}</math>  
 \* Metric: Refer to equivalent English Dimensional Tolerance  
 >>> NOTE: All tolerances are Non-Cumulative. <<<

**Dimensional Units:** All dimensions are expressed in inches except those shown in brackets (xxx) are expressed in millimeters

**REF. to an Asterisk (\*) = Non-Tolerance Reference Dimension, shown for clarification purposes only.**

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**DESIGN CONTROL:** It is the responsibility of the individual user/referencing this drawing to assure that the noted design revision level agrees with the revision level of the Controlled Document (Master Drawing). This is a NON-CONTROLLED DOCUMENT unless otherwise specifically noted.

**DO NOT SCALE:** Dimensional variation may occur during printing/reproduction.

**Essential Characteristics:**

- Critical Characteristics, relating to Safety and/or Regulatory Compliance
- Significant Characteristics relating to Process Control (SPC)
- Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

(Note that the identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.)

**Cole Hersee Co.**  
 20 Old Colony Ave., South Boston, MA, 02127  
 Phone: 617-268-2100 Web: www.colehersee.com

**Description:** RELAY, 70A SERIES

**Drawing / Part No.:** RA-70012-NN C

Scale: 1:1  
 Drawn By: JT  
 Date Drawn: 7/16/03  
 Responsible Engineer: JT  
 Page: Pg. 1 of 2

**Revision Control Record**

Rev.	Description of Change	ECN No.	Date
	<b>SEE PAGE ONE FOR REVISION LEVEL</b>		

ⓑ	RC-350124-RN	DETAIL D	35A	FORM C	YES	24 VDC	RESISTOR	NO
ⓒ	RC-350024-RN	DETAIL D	35A	FORM C	NO	24 VDC	RESISTOR	NO
ⓑ	RC-350124-DN	DETAIL D	35A	FORM C	YES	24 VDC	DIODE	NO
ⓒ	RC-350024-DN	DETAIL D	35A	FORM C	NO	24 VDC	DIODE	NO
ⓑ	RC-350124-NN	DETAIL C	35A	FORM C	YES	24 VDC	NONE	NO
ⓒ	RC-350024-NN	DETAIL C	35A	FORM C	NO	24 VDC	NONE	NO
ⓑ	RA-350124-RN	DETAIL B	35A	FORM A	YES	24 VDC	RESISTOR	NO
ⓒ	RA-350024-RN	DETAIL B	35A	FORM A	NO	24 VDC	RESISTOR	NO
ⓑ	RA-350124-DN	DETAIL B	35A	FORM A	YES	24 VDC	DIODE	NO
ⓒ	RA-350024-DN	DETAIL B	35A	FORM A	NO	24 VDC	DIODE	NO
ⓑ	RA-350124-NN	DETAIL A	35A	FORM A	YES	24 VDC	NONE	NO
ⓒ	RA-350024-NN	DETAIL A	35A	FORM A	NO	24 VDC	NONE	NO
	RC-700112-RN	DETAIL D	70A	FORM C	YES	12 VDC	RESISTOR	NO
ⓒ	RC-700012-RN	DETAIL D	70A	FORM C	NO	12 VDC	RESISTOR	NO
	RC-700112-DN	DETAIL D	70A	FORM C	YES	12 VDC	DIODE	NO
ⓒ	RC-700012-DN	DETAIL D	70A	FORM C	NO	12 VDC	DIODE	NO
	RC-700112-NN	DETAIL C	70A	FORM C	YES	12 VDC	NONE	NO
ⓒ	RC-700012-NN	DETAIL C	70A	FORM C	NO	12 VDC	NONE	NO
	RA-700112-RN	DETAIL B	70A	FORM A	YES	12 VDC	RESISTOR	NO
ⓒ	RA-700012-RN	DETAIL B	70A	FORM A	NO	12 VDC	RESISTOR	NO
	RA-700112-DN	DETAIL B	70A	FORM A	YES	12 VDC	DIODE	NO
ⓒ	RA-700012-DN	DETAIL B	70A	FORM A	NO	12 VDC	DIODE	NO
	RA-700112-NN	DETAIL A	70A	FORM A	YES	12 VDC	NONE	NO
ⓒ	RA-700012-NN	DETAIL A	70A	FORM A	NO	12 VDC	NONE	NO
	<b>PART NUMBER</b>	<b>CIRCUITRY</b>	<b>RATING</b>	<b>TERMINAL LAYOUT</b>	<b>BRACKET</b>	<b>VOLTAGE</b>	<b>SUPPRESSION</b>	<b>SEALING</b>

**Tolerances.** Unless otherwise specifically noted, the following are default tolerances:  
 \* 2-place Decimal Dimensions  $\pm .02"$   
 \* 3-place Decimal Dimensions  $\pm .005"$   
 \* Angular Dimensions  $\pm 1.0$  Deg.  
 \* Metric: Refer to equivalent English Dimension Tolerance  
 >>> NOTE: All tolerances are Non-Cumulative. <<<

**Dimensional Units.** All dimensions are expressed in inches except those shown in brackets (xx) are expressed in millimeters

"REF." or an Asterisk (\*) = Non-Tolerance Reference Dimension, shown for clarification purposes only.

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**DO NOT SCALE** - Dimensional variation may occur during printing/reproduction.

**Special Characteristics:**

Critical Characteristic, relating to Safety and/or Regulatory Compliance

Significant Characteristic relating to Process Control (SPC)

Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

(Note that the Identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.)

**Cole Hersee Co.**  
 20 Old Colony Ave., South Boston, MA, 02127  
 Phone: 617-288-2100 Web: www.colehersee.com

Description: **RELAY 70A SERIES**

Drawing/Part No.: **RA-700112-NN**

SEE PG. 1 FOR REV.

Used On or Ref:

Scale: **1:1**

Drawn By: **JT**

Date Drawn: **6/16/03**

Responsible Engineer: **JT**

Pg. 2 of 2