

| REVISIONS |     |                 |           |     |      |
|-----------|-----|-----------------|-----------|-----|------|
| P         | LTR | DESCRIPTION     | DATE      | DWN | APVD |
|           | A   | INITIAL RELEASE | 30JUL2019 | RV  | DH   |

7012

\*

\*

\*

| TERM. BLOCK PART NO.     |          |
|--------------------------|----------|
| 32650-02                 |          |
| HARDWARE ASSY PART NO.   |          |
|                          |          |
| STANDARD                 | 32694-03 |
| W/K COILS                | 32694-10 |
| W/L27 COIL               | 32694-14 |
| W/L7,L21,L22 & L24 COILS | 32694-04 |
| PACKAGING ASSY PART NO.  |          |
| 32707-01 (STANDARD)      |          |
| W/OPTION GZ              | 32707-06 |
| W/OPTION K               |          |
| W/OPTION P               |          |
| W/OPTION U               |          |
| W/OPTION W               |          |
| W/OPTION X               | 32849-01 |
| W/OPTION L               |          |
| W/OPTION LL              |          |
| W/OPTION T               |          |

| ENCL. CODE | NOMIAL VOLTAGE | FREQ. HZ | PART NO. |
|------------|----------------|----------|----------|
| A          | 120V           | 60       | 32274-01 |
| B          | 240V           | 60       | 32274-02 |
| C          | 480V           | 60       | 32274-03 |
| D          | 550V           | 60       | 32274-04 |
| E          | 24V            | 60       | 32274-05 |
| F          | 127V           | 50       | 32274-06 |
| G          | 240V           | 50       | 32274-07 |
| H          | 12V            | 60       | 32274-08 |
| I          | 6V             | 60       | 32274-09 |
| J          | 208V           | 60       | 32274-10 |
| K          | 120V<br>240V   | 60       | 32274-11 |
| K1         | 120V<br>240V   | 60       | 32274-12 |
| L1         | 12V            | 50       | 32274-13 |
| L2         | 24V            | 50       | 32274-14 |
| L3         | 48V            | 50       | 32274-15 |
| L4         | 380V           | 60       | 32274-16 |
| L5         | 208V           | 50       | 32274-17 |
| L6         | 380V           | 50       | 32274-18 |
| L7         | 120V           | 25-400   | 32274-19 |
| L8         | 110V           | 60       | 32274-20 |
| L9         | 220V           | 60       | 32274-21 |
| L10        | 440V           | 60       | 32274-22 |
| L12        | 110V           | 50       | 32274-23 |
| L13        | 220V           | 50       | 32274-24 |
| L15        | 415V           | 50       | 32274-25 |
| L16        | 440V           | 50       | 32274-26 |
| L17        | 500V           | 50       | 32274-27 |
| L18        | 550V           | 50       | 32274-28 |
| L19        | 48V            | 60       | 32274-29 |
| L20        | 70V            | 60       | 32274-30 |
| L21        | 208V           | 25-400   | 32274-31 |
| L22        | 240V           | 25-400   | 32274-32 |
| L23        | 32V            | 50       | 32274-33 |
| L24        | 440V           | 25-400   | 32274-34 |
| L25        | 120V           | 60       | 32274-35 |
| L26        | 277V           | 60       | 32274-36 |
| L27        | 208V<br>240V   | 60       | 32274-37 |
| L28        | 120V           | 60       | 32274-38 |

| TIME CODE | TIME RANGE  | TIME COMP. ASSY P/N | TIME HEAD ASSY P/N |
|-----------|-------------|---------------------|--------------------|
| A         | .1-1 SEC.   | 32302-01            | 32625-05           |
| B         | .5-5 SEC.   | 32302-02            | 32625-01           |
| C         | 1.5-15 SEC. | 32302-03            |                    |
| D         | 5-50 SEC.   | 32302-04            |                    |
| E         | 20-200 SEC. | 32302-05            |                    |
| F         | 1-10 MIN.   | 32302-06            |                    |
| H         | 3-30 MIN.   | 32302-07            | 32625-09           |
| I         | 6-60 MIN.   | 32302-08            |                    |
| J         | 3-120 CYC.  | 32302-09            |                    |
| K         | 1-300 SEC.  | 32302-10            | 32625-01           |

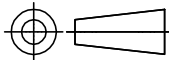
| OPTION CODE | OPTION *                  | OPTION PART NO. | OUTLINE & DIM.DWG. |
|-------------|---------------------------|-----------------|--------------------|
| A1          | SINGLE Q.C. TERMINALS     | 32728-01        | SS-625             |
| A2          | DOUBLE Q.C. TERMINALS     | 32729-01        | SS-626             |
| B           | PLUG-IN TERMINALS         | 32730-01        | SS-627             |
| BC          | PLUG-IN & RECEPT. (ST)    | 32731-01        | SS-628             |
| BD          | PLUG-IN & RECEPT. (Q.C)   | 32732-01        | SS-629             |
| GZ          | ENCLOSURE, NEMA 2         | 32733-01        | SS-633             |
| I1          | TIME HEAD CAP (BLACK)     | 32734-01        | SS-634             |
| I2          | TIME HEAD CAP (CLEAR)     | 32734-02        | SS-634             |
| K           | EXPL. PROOF ENCLOSURE     | 32807-01        | N/A                |
| M           | DUST TIGHT GASKETS        | 32737-01        | SS-631             |
| P           | OCTAL PLUG-IN             | 32738-01        | SS-630             |
| S           | DIAL STOPS                | 32741-01        | SS-632             |
| T           | AUX.SWITCH T.S. TIMING    | 32742-01        | SS-641             |
| U           | DUST TIGHT ENCLOSURE      | 32744-01        | SS-636             |
| W           | WATER-TIGHT ENCL.NEMA 4   | 32745-01        | SS-635             |
| X           | PANEL MOUNT               | 32748-01        | N/A                |
| Y1          | HORIZ. CALIB. W/O X       | 32726-01        | N/A                |
| Y2          | HORIZ. CALIB. W/COMP.SPG. | 32727-01        | N/A                |
| L           | AUX.SW. (INST. XFER)      | 32739-01        | SS-638             |
| LL          | (2) AUX.SW. (INST. XFER)  | 32739-03        | SS-638             |

| FIELD INSTALLATION KITS |          |                                |          |
|-------------------------|----------|--------------------------------|----------|
| CATALOG NUMBER          | KIT CODE | DESCRIPTION                    | PART NO. |
| 700062                  | I1       | TAMPER-PROOF COVER (BLACK)     | 32708-01 |
| 700071                  | I2       | TAMPER-PROOF COVER (CLEAR)     | 32708-02 |
| 700034                  | K        | ENCLOSURE, EXPL.PROOF          | 32736-01 |
| 700099                  | W        | ENCLOSURE, WATER-TIGHT, NEMA 4 | 32746-01 |
| 700077                  | B        | PLUG-IN MOUNTING               | 32725-01 |
| 700042                  | GZ       | ENCLOSURE, NEMA 2              | 32913-01 |
| 700047                  | L        | AUX. SWITCH (INST. XFER)       | 32740-01 |
| 700097                  | P        | OCTAL PLUG ADAPTER             | 32912-01 |
| 700121                  | T        | AUX. SWITCH (TWO-STEP TIMING)  | 32743-01 |
| 700041                  | X        | PANEL MOUNTING                 | 32749-01 |
| 700030                  | -        | SWITCH BLOCK ASSY              | 32911-01 |
| 700137                  | -        | PLUG-IN RECEPT. (SCREW TERM.)  | 32324-01 |
| 700141                  | -        | PLUG-IN RECEPT. (Q.C. TERM.)   | 32324-02 |
| 700048                  | LL       | DOUBLE AUX. SWITCH KIT         | 32026-01 |

\* CAUTION SHOULD BE EXERCISED IN ORDERING (ASSIGNING) MULTIPLE OPTIONS - CONSULT PRODUCT MANAGER FOR VERIFICATION IF NECESSARY.

NOTES:

- ① WHEN L7, L21, L22 OR L24 COILS ARE SPECIFIED, SUBSTITUTE TIME HEAD ASSY AS FOLLOWS:  
USE 32625-06 IN PLACE OF 32625-05  
USE 32625-02 IN PLACE OF 32625-01  
USE 32625-10 IN PLACE OF 32625-09  
AND TEST PER TP-TRE-05.
2. DIELECTRIC TEST PER TP-TRE-01.
3. PERFORMANCE TEST PER TP-TRE-02 (REF. ES-TRE-01 & ES-TRE-02)

|                                                                                       |                  |                                                                                                                              |  |                                                                                                                  |  |            |                |                             |                    |                 |          |
|---------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------|--|------------|----------------|-----------------------------|--------------------|-----------------|----------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |                  | DWN<br>RV<br>30JUL2019                                                                                                       |  | <div> TE Connectivity</div> |  |            |                |                             |                    |                 |          |
|                                                                                       |                  | CHK<br>RV<br>30JUL2019                                                                                                       |  |                                                                                                                  |  |            |                |                             |                    |                 |          |
| DIMENSIONS:<br>INCHES                                                                 |                  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:<br><br>0 PLC ± -<br>1 PLC ± -<br>2 PLC ± -<br>3 PLC ± -<br>4 PLC ± -<br>ANGLES ± - |  | APVD<br>DH<br>30JUL2019                                                                                          |  | NAME       |                |                             |                    |                 |          |
|  | PRODUCT SPEC     |                                                                                                                              |  | 7000 SERIES TIMING RELAY                                                                                         |  |            |                |                             |                    |                 |          |
|                                                                                       | —                |                                                                                                                              |  | —                                                                                                                |  |            |                |                             |                    |                 |          |
|                                                                                       | APPLICATION SPEC |                                                                                                                              |  | —                                                                                                                |  |            |                |                             |                    |                 |          |
|                                                                                       | —                |                                                                                                                              |  |                                                                                                                  |  |            |                |                             |                    |                 |          |
| MATERIAL                                                                              |                  | FINISH                                                                                                                       |  | WEIGHT<br>0                                                                                                      |  | SIZE<br>A3 | CAGE CODE<br>— | DRAWING NO<br>C=7000—SERIES | RESTRICTED TO<br>— |                 |          |
| —                                                                                     |                  | —                                                                                                                            |  | CUSTOMER DRAWING                                                                                                 |  |            |                |                             | SCALE<br>NTS       | SHEET<br>1 OF 3 | REV<br>A |

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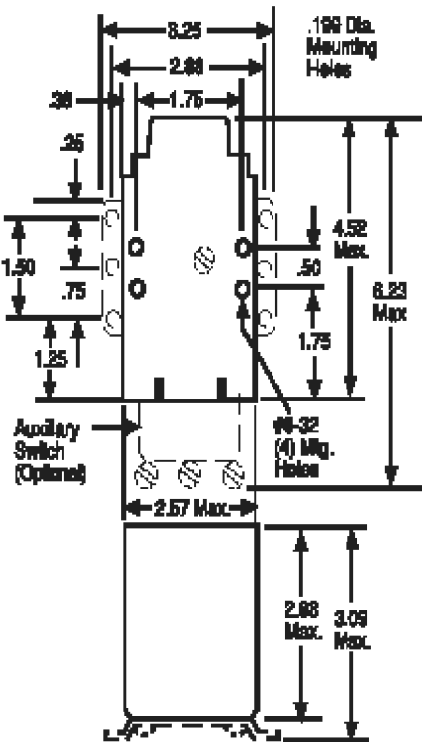
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REVISIONS

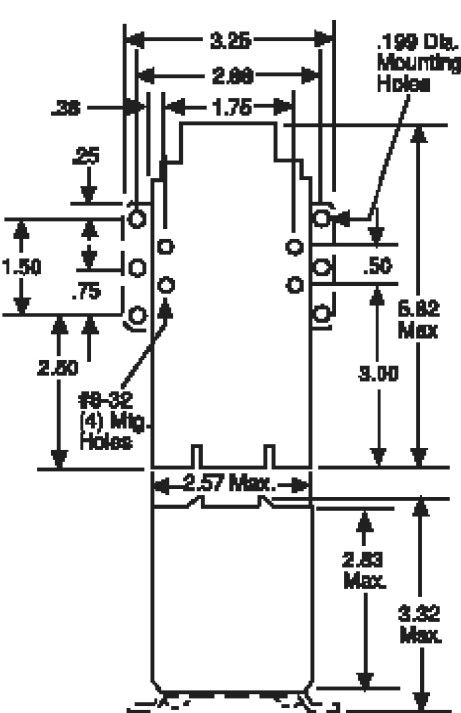
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|-----|-------------|------|-----|------|
|   | —   | SEE SHEET 1 | —    | —   | —    |

Outline Dimensions (Dimensions in inches)

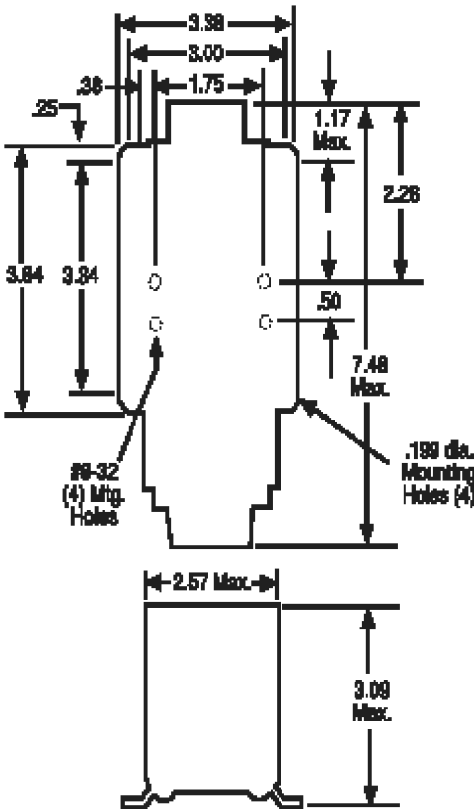
Models 7012, 7022



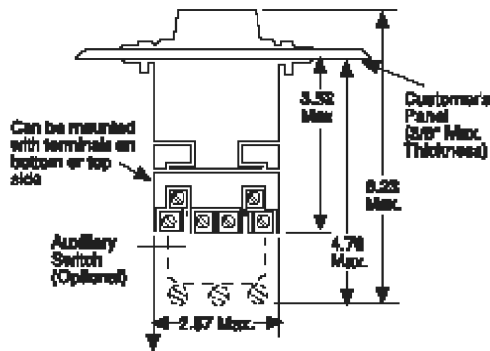
Models 7014, 7024



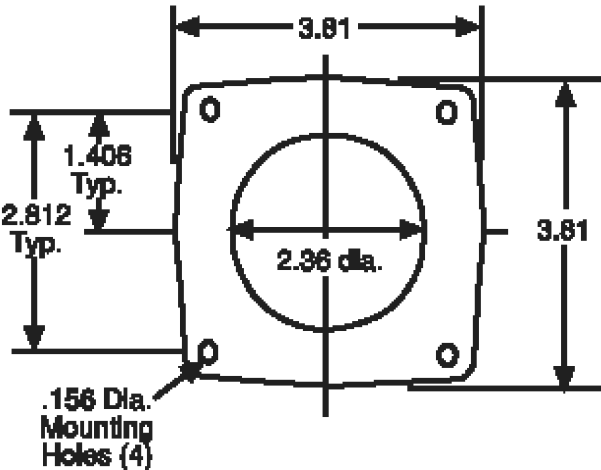
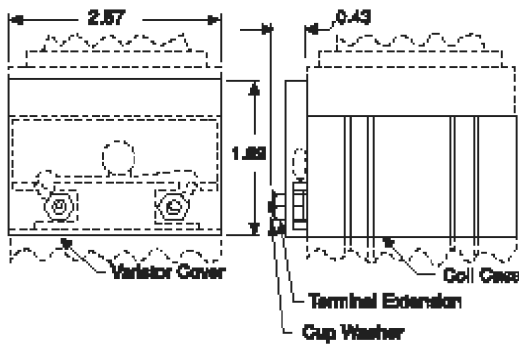
Model 7032



Panel Mount Option "X"

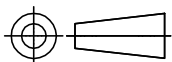


Surge/Transient Protection Option



THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
INCHES



MATERIAL

TOLERANCES UNLESS  
OTHERWISE SPECIFIED:

0 PLC ± —  
1 PLC ± —  
2 PLC ± —  
3 PLC ± —  
4 PLC ± —  
ANGLES ± —

FINISH

DWN 30JUL2019

RV 30JUL2019

CHK RV 30JUL2019

APVD DH 30JUL2019

PRODUCT SPEC

APPLICATION SPEC

WEIGHT 0

CUSTOMER DRAWING



TE Connectivity

NAME 7000 SERIES TIMING RELAY

SIZE A3 CAGE CODE — DRAWING NO. C=7000—SERIES RESTRICTED TO —

SCALE NTS SHEET 2 of 3 REV A

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REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|-----|-------------|------|-----|------|
|   | —   | SEE SHEET 1 | —    | —   | —    |

Ordering Information

Typical Part No. ➤

70

1

2

A

D

GZ

1. Basic Series:

70 = 7000 series electropneumatic timing relay

2. Operation:

1 = On-delay  
2 = Off-delay  
3 = On-delay, off-delay (double head)

3. Contact Arrangement:

2 = 2PDT (2 form C)  
\*\*4 = 4PDT (4 form C)

4. Coil Voltage:

| AC Coils                            | DC Coils                            |
|-------------------------------------|-------------------------------------|
| A = 120VAC, 60 Hz.; 110VAC, 50Hz.   | M = 28VDC                           |
| B = 240VAC, 60 Hz.; 220VAC, 50Hz.   | N = 48VDC                           |
| C = 480VAC, 60 Hz.                  | O = 24VDC                           |
| D = 550VAC, 60 Hz.                  | P = 125VDC                          |
| E = 24VAC, 60 Hz.                   | Q = 12VDC                           |
| F = 127VAC, 50 Hz.                  | R = 60VDC                           |
| G = 240VAC, 50Hz.                   | S = 250VDC                          |
| H = 12VAC, 60 Hz.                   | T = 550VDC                          |
| K = Dual voltage (combines A & B)   | U = 16VDC                           |
| L = Special AC coils (L1, L2, etc.) | V = 32VDC                           |
|                                     | W = 96VDC                           |
|                                     | Y = 6VDC                            |
|                                     | Z = 220VDC                          |
|                                     | X = Special DC coils (X1, X2, etc.) |

5. Timing Range:

Models 7012, 7022 & 7024

A = .1 to 1 sec.  
B = .5 to 5 sec.  
C = 1.5 to 15 sec.  
D = 5 to 50 sec.  
E = 20 to 200 sec.  
F = 1 to 10 min.  
H = 3 to 30 min.  
I = 6 to 60 min.  
J = 3 to 120 cyc.  
K = 1 to 300 sec.

†Models 7014 & 7032

For model 7032 specify separate time range code for each head. Example: AB.  
Any two ranges may be selected.  
A = .2 to 2 sec.  
B = .7 to 7 sec.  
C = 2 to 20 sec.  
D = 10 to 100 sec.  
E = 30 to 300 sec.  
F = 1.5 to 15 min.  
H = 3 to 30 min.

6. Options:

A1 = Single quick-connect terminals (note 4).  
A2 = Double quick-connect terminals (note 4).  
B = Plug-in connectors (note 4).  
GZ = Enclosure with bottom knockouts (note 1).  
H2 = Hermetically sealed enclosure, 8 pin solder (notes 1 & 4).  
H3 = Hermetically sealed enclosure, 8 pin octal (notes 1 & 4).  
H4 = Hermetically sealed enclosure, 8 screw terminal block (notes 1 & 4).  
\*H6 = Hermetically sealed enclosure, 11 pin solder (notes 1 & 4).  
\*H7 = Hermetically sealed enclosure, 11 pin octal (notes 1 & 4).  
\*H8 = Hermetically sealed enclosure, 11 screw terminal block (notes 1 & 4).  
I1 = Tamper-proof Cap, opaque black (Cannot be combined with Option X).  
I2 = Tamper-proof Cap, transparent (Cannot be combined with Option X).  
L = Auxiliary Switch, instant transfer. 7012 only (notes 2 & 6).  
LL = Two Aux. Switches, instant transfer. On Model 7014 Factory Installed Only. (notes 2 & 6)  
M = Dust-tight Gasketing (notes 4 & 5).  
P = Octal Plug Adapter. Can be combined only with options I1, I2, M, S, X, or Y1. (note 4).  
S = Dial Stops.  
T = Auxiliary Switch, two-step timing (notes 2 & 6).  
V = Transient/Surge Protection (for DC coil voltage only).  
X = Panelmount includes hardware and adjustment for horizontal operation (note 4).  
Y1 = Horizontal testing, for horizontal operation without panel mounting (note 4).  
Y2 = Horizontal testing, with Compensating Spring for vertical operation (note 4).

Notes:

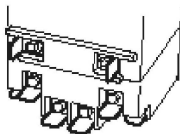
1. Cannot be combined with B, P or X Options  
2. Cannot be combined with B, P or Y2 Options  
3. Cannot be combined with GZ, H, I1, I2, K, W or Y1 Options  
4. Not Avail. on 4-Pole Models  
5. Not Available with L, T or LL options.  
6. Not Available on hermetically sealed units.  
\* Sized to accommodate one L or T Auxiliary Switch  
\*\* Not available on 7032 model.  
† Available with letter graduated dials only. Upper end of time range may be twice the value shown  
†† 120 cycles = 2 sec.

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

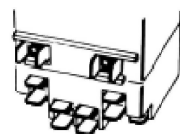
|        |        |         |        |         |        |        |         |        |
|--------|--------|---------|--------|---------|--------|--------|---------|--------|
| 7012AA | 7012AE | 7012ACL | 7012PB | 7012PJ  | 7022AA | 7022AE | 7022AJ  | 7022PA |
| 7012AB | 7012AF | 7012BC  | 7012PC | 7012PK  | 7022AB | 7022AF | 7022AKT | 7022PB |
| 7012AC | 7012AH | 7012NC  | 7012PD | 7012PKX | 7022AC | 7022AH | 7022BC  | 7022PC |
| 7012AD | 7012AK | 7012PA  | 7012PF | 7012PJX | 7022AD | 7022AI | 7022BK  | 7022PK |

Ordering Options — Can only be ordered as factory installed options (Dimensions, where shown, are in inches)

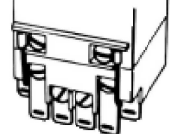
A1 – Single Quick-Connect Terminals



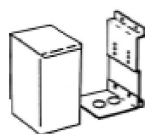
A2 – Double Quick-Connect Terminals



B – Plug-In Connectors  
Use with Accessory "C" or "D" below.



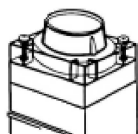
GZ – Metal Enclosure  
With knockouts for bottom connection.  
3.16" W x 3.84" D x 7.63"H



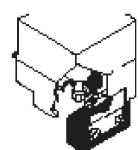
H – Hermetically Sealed Enclosure



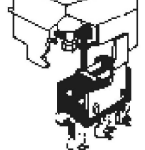
I – Tamper-Proof Cover



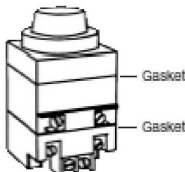
L – Auxiliary Switch



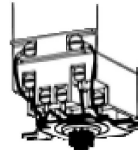
LL – Auxiliary Switch



M – Dust tight



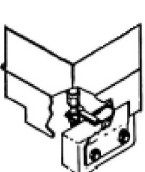
P – Octal Plug Adapter



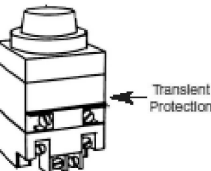
S – Dial Stops



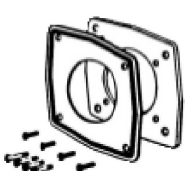
T – Auxiliary Switch



V – Transient/Surge Protection



X – Panelmount Kit  
Mounting hardware included.



Accessories (Not available for 7032 models)

Plug-In Receptacle (Accessory C)



Screw Terminals  
Catalog No. 700137.  
For use with "B" Option.

Plug-In Receptacle (Accessory D)



Quick Connect Terminals  
Catalog No. 700141.  
For use with "B" Option.

Ordering options can only be ordered as factory installed options.

|                                        |  |                  |           |                          |           |               |               |
|----------------------------------------|--|------------------|-----------|--------------------------|-----------|---------------|---------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN RV           | 30JUL2019 | TE Connectivity          |           |               |               |
|                                        |  | CHK RV           | 30JUL2019 |                          |           |               |               |
| DIMENSIONS:<br>INCHES                  |  | APVD DH          | 30JUL2019 | NAME                     |           |               |               |
|                                        |  | PRODUCT SPEC     | —         | 7000 SERIES TIMING RELAY |           |               |               |
|                                        |  | APPLICATION SPEC | —         | —                        |           |               |               |
| MATERIAL                               |  | WEIGHT           | 0         | SIZE                     | CAGE CODE | DRAWING NO    | RESTRICTED TO |
| —                                      |  | FINISH           | —         | A3                       | 00779     | ©=7000—SERIES | —             |
| CUSTOMER DRAWING                       |  |                  |           | SCALE                    | NTS       | SHEET         | REV           |
|                                        |  |                  |           |                          |           | 3 of 3        | A             |

# Mouser Electronics

Authorized Distributor

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