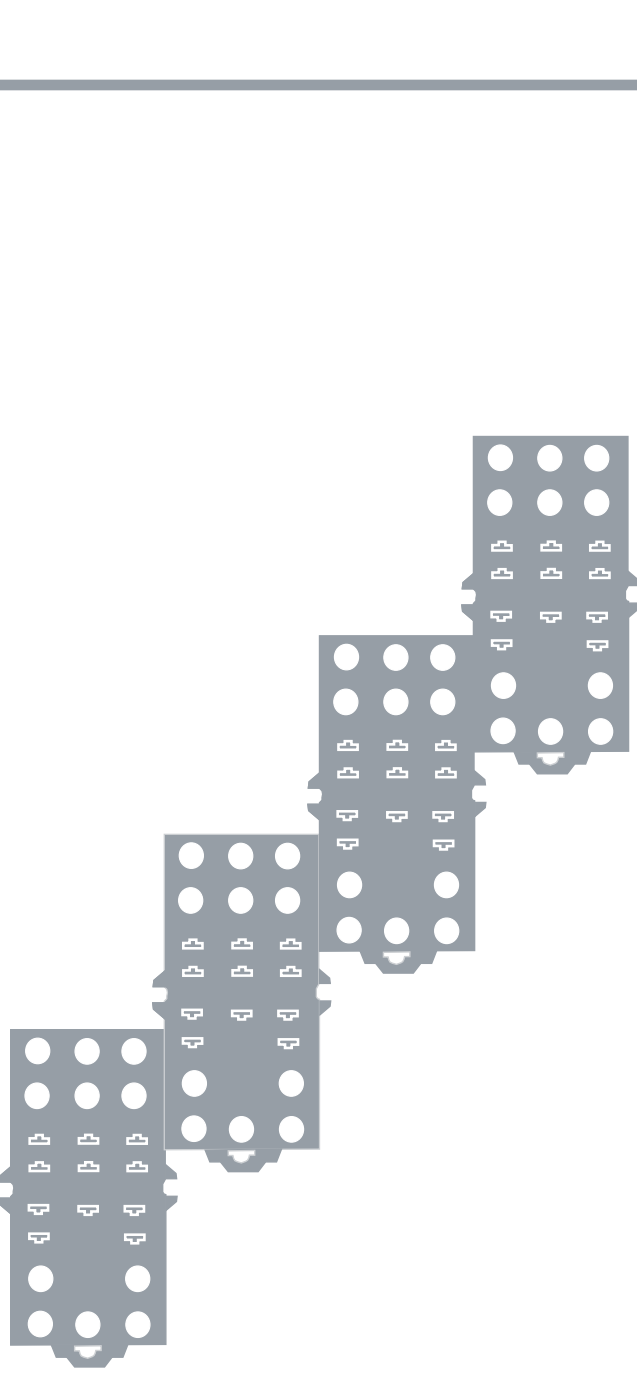


SECTION 7



SOCKETS AND ACCESSORIES

*5 TO 25 AMPERES
250 TO 600 VOLTS*



**SCREW TERMINAL "ICE CUBE"
SOCKETS**

**SCREW TERMINAL OCTAL
SOCKETS**

**SCREW TERMINAL SQUARE BASE
SOCKETS**

**CHASSIS MOUNT
SOCKETS**

**PRINTED CIRCUIT MOUNT
SOCKETS**

**SOCKET MODULES &
ACCESSORIES**

PRODUCT



70-781D-1



70-461-1



70-459-1

MANUFACTURED UNDER
ISO 9001

MANUFACTURED UNDER
ISO 9001

L X W X H (INCHES)

2.66 x 0.791 x 1.12

2.55 x 1.21 x 1.015

2.02 x 1.18 x 1.236

FEATURES

✦ BLADE STYLE 5 PIN BASE
✦ DESIGNED FOR
35 MILLIMETER
DIN TRACK OR CHASSIS
MOUNT APPLICATIONS

✦ BLADE STYLE 14 PIN BASE
✦ DESIGNED FOR
35 MILLIMETER
DIN TRACK OR CHASSIS
MOUNT APPLICATIONS

✦ BLADE STYLE 8 PIN BASE
✦ DESIGNED FOR
35 MILLIMETER
DIN TRACK OR CHASSIS
MOUNT APPLICATIONS

FINGER SAFE PER IP 20

YES

NO

NO

WIRING TERMINATIONS

SCREW TERMINALS WITH
CLAMPING PLATES

SCREW TERMINALS WITH
CLAMPING PLATES

SCREW TERMINALS WITH
CLAMPING PLATES

CONSTRUCTION

UNITS

Width:
Module Compatible:
1 Piece Solderless Track
And Terminals System:
Logic Style: I-O Separation:
Coil Jumper Buss System Available:

mm

19.6

30.7

30

No

No

No

Yes

Yes

Yes

No

No

No

No

No

No

ELECTRICAL RATING

Nominal Voltage Rating:
Nominal Current Rating:

Volts
Amps

300
15

300
10

300
10

DIELECTRIC STRENGTH

Output to Adjacent Terminals:
Output to Input Terminals:
Terminals to Rail Chassis

V rms
V rms
V rms

2500
2500
2500

1600
1600
1600

2000
2000
2000

TEMPERATURE

Operating, Lower:
Operating, Lower:

°C
°C

-40
+80

-40
+80

-40
+80

MISCELLANEOUS

Protection Category (finger safe):
Weight:

IP
grams

20
32

N / A
42

N / A
50

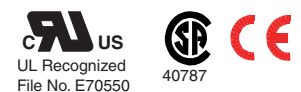
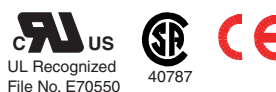
UL Listing Available:

UL Listed When Used With
781 Relay

UL Listed When Used With
782, 782H Relays

UL Listed When Used With
782 Relay

AGENCY APPROVALS



SCREW TERMINAL "ICE CUBE" SOCKET SELECTION GUIDE

70-782D-1



70-783D-1



70-784D-1



MANUFACTURED UNDER
ISO 9001

3.09 x 1.165 x 1.13

3.09 x 1.50 x 1.145

3.14 x 1.96 x 1.16

✦ BLADE STYLE 8 PIN BASE
✦ DESIGNED FOR
35 MILLIMETER DIN
TRACK OR 2 WAY CHASSIS
MOUNT APPLICATIONS

✦ BLADE STYLE 11 PIN BASE
✦ DESIGNED FOR
35 MILLIMETER DIN
TRACK OR 2 WAY CHASSIS
MOUNT APPLICATIONS

✦ BLADE STYLE 14 PIN BASE
✦ DESIGNED FOR
35 MILLIMETER DIN
TRACK OR 2 WAY CHASSIS
MOUNT APPLICATIONS

YES

YES

YES

SCREW TERMINALS WITH
CLAMPING PLATES

SCREW TERMINALS WITH
CLAMPING PLATES

SCREW TERMINALS WITH
CLAMPING PLATES

29.4

38

50

Yes

Yes

Yes

Yes

Yes

Yes

No

No

No

No

No

No

300

300

300

16 / 20

16

16

2000

2000

2000

2000

2000

2000

2000

2000

2000

-40

-40

-40

+80

+80

+80

20

20

20

55

62

77

UL Listed When Used With
782 Relay

UL Listed When Used With
783 Relay

UL Listed When Used With
784 Relay



PRODUCT

70-464-1 & 70-465-1



MANUFACTURED UNDER
ISO 9001

70-169-1 & 70-170-1



MANUFACTURED UNDER
ISO 9001

70-750D8-1 & 70-750D11-1



L X W X H (INCHES)

2.02 x 1.28 x .83 / 2.05 x 1.96 x 0.97

2.25 x 2.0 x 0.62 / 2.59 x 2.52 x 0.62

3.04 x 1.42/1.40 x 1.11/1.44

FEATURES

✦ OCTAL STYLE
8 & 11 PIN BASE
✦ DESIGNED FOR
35 MILLIMETER
DIN TRACK OR CHASSIS
MOUNT APPLICATIONS

✦ LOW PROFILE OCTAL
STYLE 8 & 11 PIN BASE
✦ DESIGNED FOR
CHASSIS MOUNT
APPLICATIONS

✦ OCTAL STYLE
8 & 11 PIN BASE
✦ DESIGNED FOR
35 MILLIMETER
DIN TRACK OR CHASSIS
MOUNT APPLICATIONS

FINGER SAFE PER IP 20

NO

NO

YES

WIRING TERMINATIONS

SCREW TERMINALS WITH
CLAMPING PLATES

SCREW TERMINALS WITH
CLAMPING PLATES

SCREW TERMINALS WITH
CLAMPING PLATES

CONSTRUCTION

UNITS

Width:
Module Compatible:
1 Piece Solderless Track
And Terminals System:
Options:
Logic Style: I-O Separation:
Coil Jumper Buss System Available:

mm

32.7 & 50

50.8 & 64.2

36 & 38

No

No

Yes

Yes

Yes

Yes

No

No

Yes

No

No

Yes

ELECTRICAL RATING

Nominal Voltage Rating:
Nominal Current Rating:

Volts

Amps

300 / 600

15 / 10.5

300

15

300 / 600

16 / 5

DIELECTRIC STRENGTH

Output to Adjacent Terminals:
Output to Input Terminals:
Terminals to Rail Chassis

V rms

V rms

V rms

2000

2000

2000

2000

2000

2000

2500

2500

2500

TEMPERATURE

Operating, Lower:
Operating, Lower:

°C

°C

-40

+80

-40

+80

-40

+80

MISCELLANEOUS

Protection Category (finger safe):
Weight:

IP

grams

N / A

40 or 57

N / A

40 or 70

20

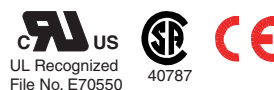
60 or 78

UL Listing Available:

UL Listed When Used With
211, 750 Relays

UL Listed When Used With
750 Relay

AGENCY APPROVALS



SCREW TERMINAL OCTAL SOCKET SELECTION GUIDE

70-750E8-1 & 70-750E11-1



MANUFACTURED UNDER
ISO 9001

2.95 x 1.49 x 1.03

70-750EL8-1 & 70-750SL8-1



MANUFACTURED UNDER
ISO 9001

3.60 x 1.42 x 2.48

70-750EL11-1 & 70-750SL11-1



MANUFACTURED UNDER
ISO 9001

3.60 x 1.42 x 2.48

- ✦ OCTAL STYLE 8 & 11 PIN BASE
- ✦ DESIGNED FOR 35 MILLIMETER DIN TRACK OR CHASSIS MOUNT APPLICATIONS

- ✦ OCTAL STYLE 8 PIN BASE
- ✦ DESIGNED FOR 35 MILLIMETER DIN TRACK OR CHASSIS MOUNT APPLICATIONS

- ✦ OCTAL STYLE 11 PIN BASE
- ✦ DESIGNED FOR 35 MILLIMETER DIN TRACK OR CHASSIS MOUNT APPLICATIONS

YES

YES

YES

RISING ELEVATOR BOX
TERMINALS

RISING ELEVATOR BOX TERMINALS (EL),
SCREW TERMINALS WITH CLAMPING
PLATES (SL)

RISING ELEVATOR BOX TERMINALS (EL),
SCREW TERMINALS WITH CLAMPING
PLATES (SL)

38

36

36

Yes

Yes

Yes

Yes

Yes

Yes

Optional Flip Up Plastic
ID Tag System

Optional Flip Up Plastic
ID Tag System

Optional Flip Up Plastic
ID Tag System

No

Yes

Yes

No

Yes

Yes

300

300 / 600

300 / 600

10

16 / 5

16 / 5

2000

2500

2500

2000

2500

2500

2000

2500

2500

-40

-40

-40

+80

+80

+80

20

20

20

46 or 50

50

90 or 85

UL Listing Pending

UL Listing Pending

UL Listing Pending



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PAGE 24



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PRODUCT

70-463-1



70-788EL11-1
70-788SL11-1



MANUFACTURED UNDER
ISO 9001

27390D &
33377D



MANUFACTURED UNDER
ISO 9001

L X W X H (INCHES)

3.00 x 1.70 x 1.03

3.60 x 1.42 x 2.48

2.65/3.10 x 2.18 x 0.78

FEATURES

✦ BLADE STYLE
11 PIN BASE
✦ DESIGNED FOR
35 MILLIMETER
DIN TRACK OR CHASSIS
MOUNT APPLICATIONS

✦ BLADE STYLE
11 PIN BASE
✦ DESIGNED FOR
35 MILLIMETER
DIN TRACK OR CHASSIS
MOUNT APPLICATIONS

✦ ROUND PIN STYLE
12 & 14 PIN BASE
✦ DESIGNED OR
CHASSIS MOUNT
APPLICATIONS

FINGER SAFE PER IP 20

NO

YES

YES

WIRING TERMINATIONS

SCREW TERMINALS
WITH
CLAMPING PLATES

RISING ELEVATOR BOX
TERMINALS (EL),
SCREW TERMINALS WITH
CLAMPING PLATES (SL)

SCREW TERMINALS
WITH
CLAMPING PLATES

CONSTRUCTION

UNITS

Width: mm

43.1

36

55.3

Module Compatible:

No

Yes

No

1 Piece Solderless Track
And Terminals System:

Yes

Yes

Yes

Options:

Optional Flip Up Plastic
ID Tag System

Logic Style: I-O Separation:

No

Yes

No

Coil Jumper Buss System Available:

No

Yes

No

ELECTRICAL RATING

Nominal Voltage Rating: Volts

300

300 / 600

600

Nominal Current Rating: Amps

15

25 / 5

10

DIELECTRIC STRENGTH

Output to Adjacent Terminals: V rms

2000

2500

2000

Output to Input Terminals: V rms

2000

2500

2000

Terminals to Rail Chassis V rms

2000

2500

2000

TEMPERATURE

Operating, Lower: °C

-40

-40

-40

Operating, Upper: °C

+80

+80

+80

MISCELLANEOUS

Protection Category (finger safe): IP

N / A

20

20

Weight: grams

51

90 or 85

102 or 129

UL Listing Available:

UL Listed with Relays
UL Listed When Used With
788, A283, 388 Relay

UL Listing pending

UL Listed When Used With
219 Relay

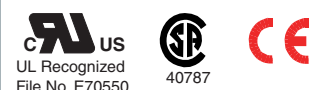
AGENCY APPROVALS



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PAGE NUMBER

CHASSIS MOUNT SOCKET SELECTION GUIDE

70-781F-1



70-401-1 &
70-378-1



MANUFACTURED UNDER
ISO 9001

70-124-1 &
70-124-2



MANUFACTURED UNDER
ISO 9001

70-303-1
70-305-1
70-307-1
70-309-1



70-TR-6, 8 & 12



NEW

1.22 x 0.709 x 0.750

1.158 x 0.850 x 0.750/0.627

SEE PAGE 31

SEE PAGE 32

SEE PAGE 33

✦ BLADE STYLE
5 PIN BASE
✦ DESIGNED OR
CHASSIS MOUNT
APPLICATIONS

✦ BLADE STYLE
8 OR 14 PIN BASE
✦ DESIGNED FOR
CHASSIS MOUNT
APPLICATIONS

✦ BLADE STYLE
11 PIN BASE
✦ DESIGNED FOR
CHASSIS MOUNT
APPLICATIONS

✦ BLADE STYLE
8 TO 26 PIN BASE
✦ DESIGNED FOR
CHASSIS MOUNT
APPLICATIONS

✦ 6, 8 & 12 PIN BASE
✦ DESIGNED FOR
CHASSIS MOUNT
APPLICATIONS

0.110 & 0.149 SOLDER
TERMINALS (EL),

0.187 OR 0.110
QC/SOLDER TERMINALS

0.187 QC/SOLDER
TERMINALS

0.110 QC/SOLDER
TERMINALS

0.190 SOLDER
TERMINALS

18

21.6

38.1

19.5

27.5

No

No

No

No

No

Yes

Yes

Yes

Yes

Yes

No

No

No

No

No

No

No

No

No

No

300

300

300

300

250

15

10 or 5

15

10 or 5

15

2500

1500

2500

1500

2500

2500

1500

2500

1500

2500

2500

1500

2500

1500

2000

-40

-40

-40

-40

-40

+80

+80

+80

+80

+150

N / A

N / A

N / A

N / A

N / A

6

6.5

12.1

4.3 to 6.9

35, 45, 50

PRODUCT

70-781T-1



70-402-1 & 70-379-1



MANUFACTURED UNDER
ISO 9001

70-178-1 & 70-178-2



MANUFACTURED UNDER
ISO 9001

70-304-1
70-306-1
70-308-1
70-310-1



L X W X H (INCHES)

1.22 x 0.709 x 0.739

SEE PAGE 35

SEE PAGE 36

SEE PAGE 37

FEATURES

✦ PC STYLE
5 PIN BASE
✦ DESIGNED FOR
PC BOARD MOUNT
APPLICATIONS

✦ PC STYLE
8 OR 14 PIN BASE
✦ DESIGNED FOR
PC BOARD MOUNT
APPLICATIONS

✦ PC STYLE
11 PIN BASE
✦ DESIGNED FOR PC
BOARD MOUNT
APPLICATIONS

✦ PC STYLE
8 TO 26 PIN BASE
✦ DESIGNED FOR
PC BOARD MOUNT
APPLICATIONS

FINGER SAFE PER IP 20

-

-

-

-

WIRING TERMINATIONS

0.080 x 0.010
PC TERMINALS

0.080 X 0.010 (8 PIN) PC
OR 0.060 X 0.010
(14 PIN) PC TERMINALS

0.060 X 0.030
PC TERMINALS

0.070 X 0.030
PC TERMINALS

CONSTRUCTION

UNITS

Width:
Module Compatible:
1 Piece Solderless Track
And Terminals System:
Logic Style: I-O Separation:
Coil Jumper Buss System Available:

mm

18

21.6

38.1

19.5

No

No

No

No

Yes

Yes

Yes

Yes

No

No

No

No

No

No

No

No

ELECTRICAL RATING

Nominal Voltage Rating:
Nominal Current Rating:

Volts

Amps

300

300

300

300

15

10

15

10

DIELECTRIC STRENGTH

Output to Adjacent Terminals:
Output to Input Terminals:
Terminals to Rail Chassis

V rms

V rms

V rms

2500

2000

2000

2500

2500

1000

1000

TEMPERATURE

Operating, Lower:
Operating, Lower:

°C

°C

-40

-40

-40

-40

+80

+80

+80

+80

MISCELLANEOUS

Protection Category (finger safe):
Weight:

IP

grams

N / A

N / A

N / A

N / A

51

3.1 to 6.2

102 or 129

4.3 to 9.6

AGENCY APPROVALS



PAGE NUMBER

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PRODUCT

70-SM



16-700DIN



16-DCLIP-1



L X W X H (MILLIMETERS)

34.7 or 12.4 WIDE

35 x 1000

9.27 WIDE

FEATURE

- ✦ PROTECTION MODULES
- ✦ PLUG - IN COMPATIBLE WITH SELECTED SOCKETS
- ✦ MOV MODULES PROTECT BY SHUNTING DAMAGING ELECTRICAL SPIKES AWAY FROM COIL
- ✦ LED MODULES VERIFY POWER AT THE COIL TERMINALS
- ✦ DIODE MODULE PROTECT EXTERNAL CIRCUITS FROM INDUCTIVE VOLTAGES
- ✦ R/C CIRCUIT SNUBS BACK EMF OF RELAY COIL
- ✦ MODULES FIT WITHIN MAXIMUM WIDTH DIMENSIONS OF THE SOCKET

- ✦ DIN RAIL
- ✦ EXTRUDED ALUMINUM
- ✦ 0.095 (2.41) X 0.984 (25) SLOTS FOR SCREW MOUNTING

- ✦ DIN RAIL END CLIP
- ✦ PLASTIC
- ✦ DESIGNED FOR USE WITH ALL 35 MILLIMETER DIN RAIL
- ✦ DIN RAIL LOCKING SCREW PREVENTS DEVICES FROM MOVING ON DIN RAIL

ELECTRICAL RATING

UNITS

Nominal Voltage Rating:

Volts

24, 120 / 240, 250

N / A

N / A

MATING SOCKETS:

70-750D8-1, 70-750D11-1,
70-750E8-1, 70-750E11-1, 70-
750EL8/SL8-1, 70-750EL11/SL11-1,
788EL11/SL11-1, 70-782D-1,
70-783D-1, 70-784D-1,

70-750D8-1, 70-750D11-1,
70-750E8-1, 70-750E11-1,
70-750EL8/SL8-1,
70-750EL11/SL11-1,
788EL11/SL11-1, 70-782D-1,
70-783D-1, 70-784D-1,
70-781D-1, 70-464-1, 70-465-1,
70-463-1, 27390D, 33377D

AGENCY APPROVALS



168986



LISTED
E234203

PAGE NUMBER

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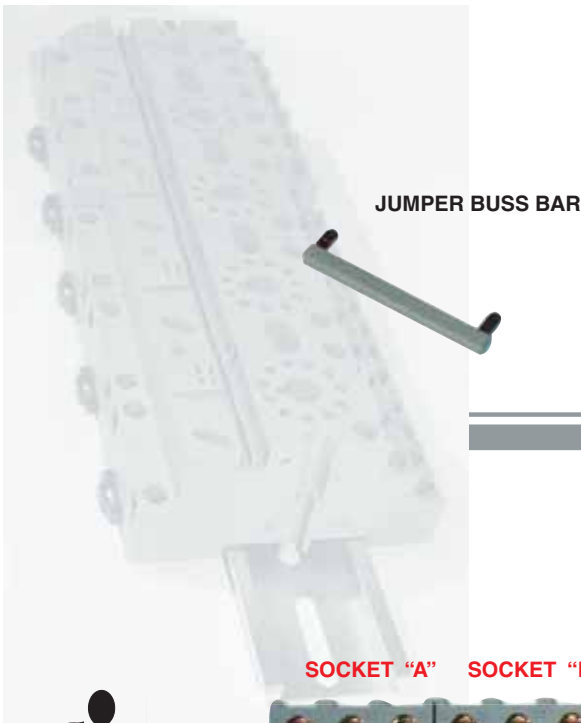
WIRE MANAGEMENT BREAK-THROUGH

HOW TO USE THE COIL BUSS JUMPER SYSTEM

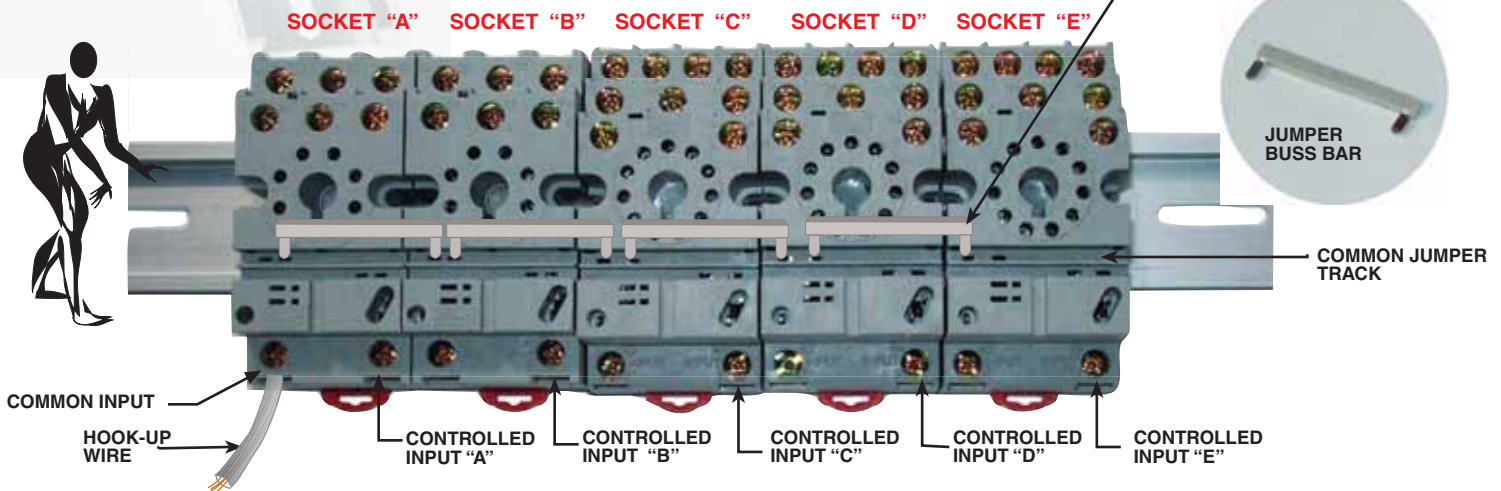


TOP PLUG-IN STYLE JUMPER BUSS SOCKET TO SOCKET CONNECTION EXAMPLE

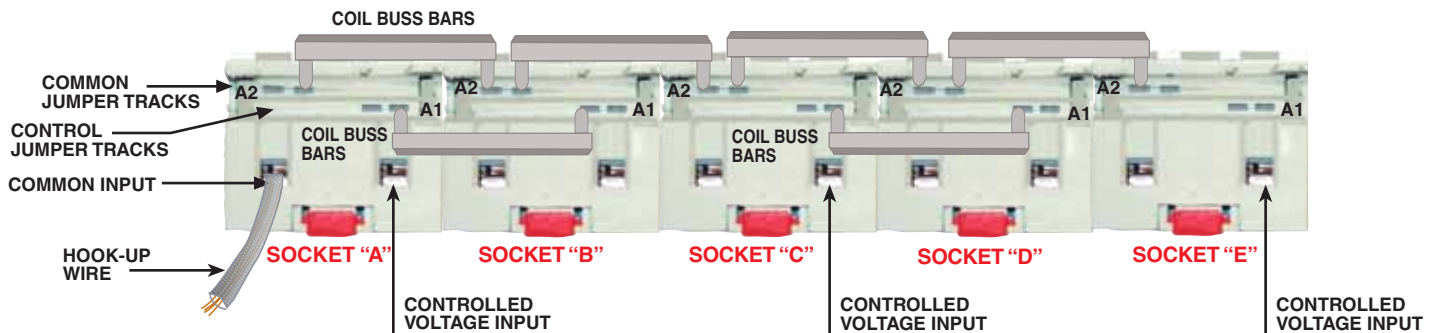
THE OPTIONAL JUMPER BUSS BARS MAY BE CONFIGURED IN AN INFINITE NUMBER OF COMBINATIONS TO CONTROL MULTIPLE RELAY COILS AND VOLTAGE COMBINATIONS. JUMPERS ELIMINATE THE NEED TO INSERT STRIPPED JUMPER WIRES INTO THE INPUT TERMINALS. JUMPER BUSS BARS INSTALL QUICKLY AND REQUIRE NO TOOLS.



IN THE EXAMPLE BELOW, THE COMMON JUMPER BUSS BARS ALLOW ALL SOCKETS TO BE JUMPERED TO THE ADJACENT SOCKETS USING ONLY ONE HOOK UP WIRE AND FOUR (4) JUMPER BUSS BARS TO COMPLETE THE CIRCUIT.



END PLUG-IN STYLE JUMPER BUSS SOCKET TO SOCKET CONNECTION EXAMPLE



THE EXAMPLE ABOVE SHOWS SOCKETS "A" AND "B" OPERATING 2 COILS FROM ONE CONTROLLED VOLTAGE SOURCE. SOCKETS "C" AND "D" ARE OPERATING 2 RELAYS FROM ANOTHER CONTROLLED VOLTAGE SOURCE, AND SOCKET "E" IS OPERATING A SINGLE RELAY CONTROLLED FROM ONE CONTROLLED VOLTAGE SOURCE... WITH THE COMMON COIL BUSS BARS CONNECTING ALL SOCKETS.



COMPLIES WITH REQUIREMENTS OF

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT



15 AMPS, 300 VOLTS

FEATURES

HEAVY DUTY 1 PIECE TRACK AND CONTACT SYSTEM:

IMPROVED CONTACT DESIGN:

FINGER SAFE:

PLASTIC HOLD DOWN CLIP AND I.D TAG SYSTEM:

STANDARD DIN RAIL MOUNTING:

BENEFITS

ALLOWS FOR GREATER HEAT DISSIPATION AND LOWER CONTACT RESISTANCE AT THE RELAY TERMINALS.

ALLOWS FOR MORE AREA OF CONTACT ON RELAY TERMINALS, RESULTING IN LOWER CONTACT RESISTANCE AT RELAY TERMINALS.

PREVENTS SHOCK TO OPERATORS BY KEEPING FINGERS AWAY FROM LIVE CIRCUITS.

ALLOWS FOR QUICK LOCKING OF RELAY IN TO SOCKETS AND REMAINS WITH SOCKET IF RELAY IS REMOVED. I.D. TAG IS IDEAL FOR CIRCUIT OR RELAY IDENTIFICATION.

FITS ALL STANDARD 35 MILLIMETER DIN TRACKS.

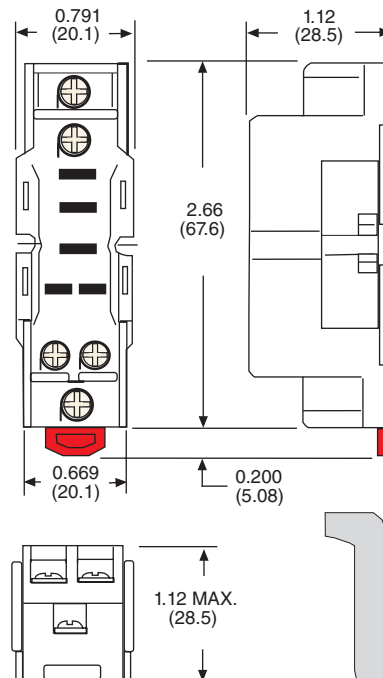
DESIGNED FOR PANEL OR DIN MOUNT.

GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	
		5
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	
Nominal Current Rating:	Amps	300
		15
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	
Output to Input Terminals:	V rms	2500
Terminals to Rail Chassis:	V rms	2500
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	IP20
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3.5 x 0.06 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	8 / 0.90
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	7 - 8 / 0.79 - 0.90
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 12 / 0.5 - 3.0
Body Color:		Light gray
DIN Locking Clip Color:		Red
Weight:	grams	32

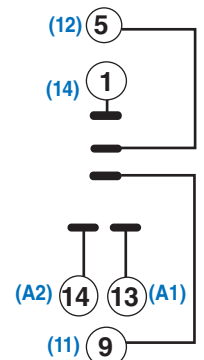
OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



HOLD DOWN CLIP INCLUDED

WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA OR IEC () NUMBERS VIEWED FROM PIN SIDE

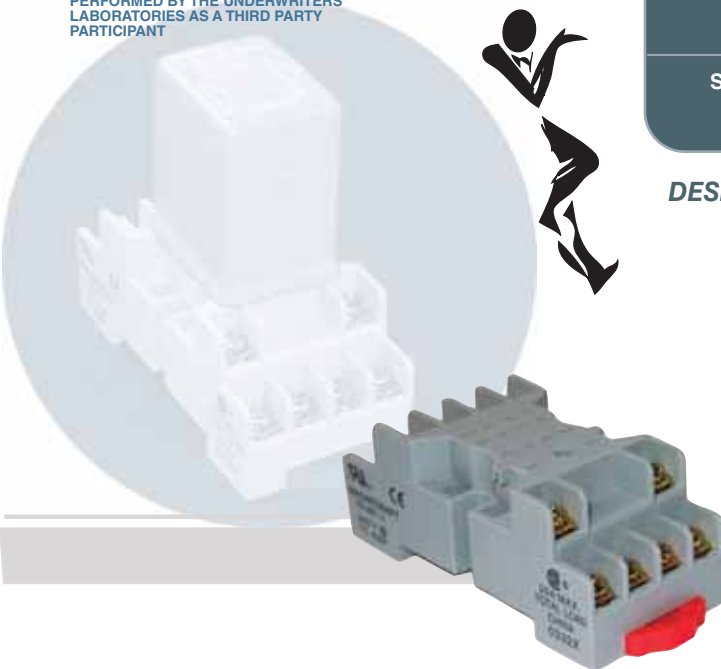
Mating Relay 781
See section 1
Mating Hold Down Clip 16-1327

STANDARD PART NUMBER	DESCRIPTION
70 - 781D - 1	5 PIN SOCKET, FINGER SAFE, DIN / PANEL MOUNT WITH SCREW TERMINALS & CLAMPING PLATES.



COMPLIES WITH REQUIREMENTS OF

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT



FEATURES

HEAVY DUTY 1 PIECE TRACK AND CONTACT SYSTEM:

IMPROVED CONTACT DESIGN:

STANDARD DIN RAIL MOUNTING:

BENEFITS

ALLOWS FOR GREATER HEAT DISSIPATION AND LOWER CONTACT RESISTANCE AT THE RELAY TERMINALS.

ALLOWS FOR MORE AREA OF CONTACT ON RELAY TERMINALS, RESULTING IN LOWER CONTACT RESISTANCE AT RELAY TERMINALS.

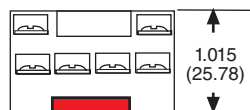
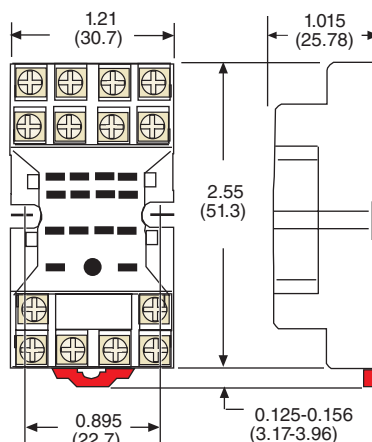
FITS ALL STANDARD 35 MILLIMETER DIN TRACKS.

DESIGNED FOR PANEL OR DIN MOUNT.

MANUFACTURED
UNDER
ISO 9001

OUTLINE DIMENSIONS

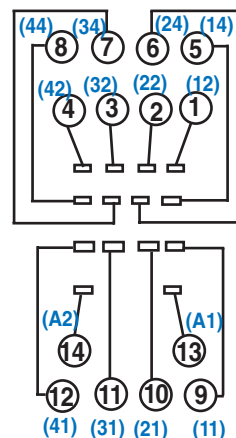
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



16-1342 UNIVERSAL HOLD DOWN CLIP FITS RELAY HEIGHTS FROM 1.27" TO 1.53"

HOLD DOWN CLIPS ARE ORDERED SEPARATELY

WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA OR IEC () NUMBERS VIEWED FROM PIN SIDE

GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
NUMBER OF TERMINALS		14
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	10
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	1600
Output to Input Terminals:	V rms	1600
Terminals to Rail Chassis:	V rms	1600
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	N / A
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M2.5 x 0.45 x 5.08
Screw Terminal Torque Maximum:	Lb-in / Nm	7 / 0.79
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	7 - 8 / 0.79 - 0.90
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20-14 / 0.5 - 2.0
Body Color:		Light gray
DIN Locking Clip Color:		Red
Weight:	grams	42

Mating Relays
782, 782H
See section 1
Mating Hold Down Clip
16-1342

STANDARD PART NUMBER	DESCRIPTION
70 - 461 - 1	14 PIN SOCKET DIN / PANEL MOUNT SOCKET WITH SCREW TERMINALS & CLAMPING PLATES.



COMPLIES WITH REQUIREMENTS OF

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

10 AMPS, 300 VOLTS

FEATURES

HEAVY DUTY 1 PIECE TRACK AND CONTACT SYSTEM:

IMPROVED CONTACT DESIGN:

STANDARD DIN RAIL MOUNTING:

BENEFITS

ALLOWS FOR GREATER HEAT DISSIPATION AND LOWER CONTACT RESISTANCE AT THE RELAY TERMINALS.

ALLOWS FOR MORE AREA OF CONTACT ON RELAY TERMINALS, RESULTING IN LOWER CONTACT RESISTANCE AT RELAY TERMINALS.

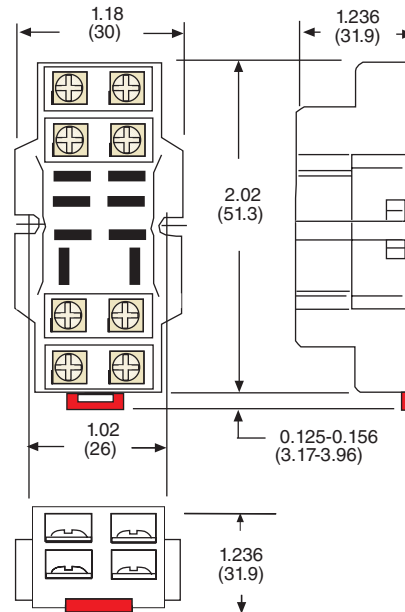
FITS ALL STANDARD 35 MILLIMETER DIN TRACKS.

DESIGNED FOR PANEL OR DIN MOUNT.

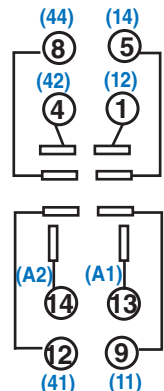
MANUFACTURED
UNDER
ISO 9001

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

Mating Relays

782

See section 1

70S2

See section 2

Mating Hold Down Clip(782)

16-1342

GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	8
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	10
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2000
Output to Input Terminals:	V rms	2000
Terminals to Rail Chassis:	V rms	2000
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	N / A
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3.5 x 0.06 x 5.08
Screw Terminal Torque Maximum:	Lb-in / Nm	7 / 0.79
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	7 - 8 / 0.79 - 0.90
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20-12 / 0.5 - 3.0
Body Color:		Light gray
DIN Locking Clip Color:		Red
Weight:	grams	50

16-1342 UNIVERSAL HOLD DOWN CLIP FITS RELAY
HEIGHTS FROM 1.27" TO 1.53"

HOLD DOWN CLIPS ARE ORDERED SEPARATELY

STANDARD PART NUMBER	DESCRIPTION
70 - 459 - 1	8 PIN SOCKET DIN / PANEL MOUNT, WITH SCREW TERMINALS & CLAMPING PLATES.



COMPLIES WITH REQUIREMENTS OF

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

FEATURES

- HEAVY DUTY 1 PIECE TRACK AND CONTACT SYSTEM:
- IMPROVED CONTACT DESIGN:
- FINGER SAFE:
- MODULE COMPATIBLE
- TWO WAY PANEL MOUNTING:
- PLASTIC HOLD DOWN CLIP AND I.D TAG SYSTEM:

BENEFITS

- ALLOWS FOR GREATER HEAT DISSIPATION AND LOWER CONTACT RESISTANCE AT THE RELAY TERMINALS.
- ALLOWS FOR MORE AREA OF CONTACT ON RELAY TERMINALS, RESULTING IN LOWER CONTACT RESISTANCE AT RELAY TERMINALS.
- PREVENTS SHOCK TO OPERATORS BY KEEPING FINGERS AWAY FROM LIVE CIRCUITS.
- ALLOWS FOR OPTIONAL PROTECTION OR LED MODULES TO BE USED WITH SOCKET
- RETROFITS BOTH IDEC AND OMRON MOUNTING, IDEAL REPLACEMENT FOR EXISTING SOCKET
- ALLOWS FOR QUICK LOCKING OF RELAY IN TO SOCKETS AND REMAINS WITH SOCKET IF RELAY IS REMOVED. I.D. TAG IS IDEAL FOR CIRCUIT OR RELAY IDENTIFICATION.

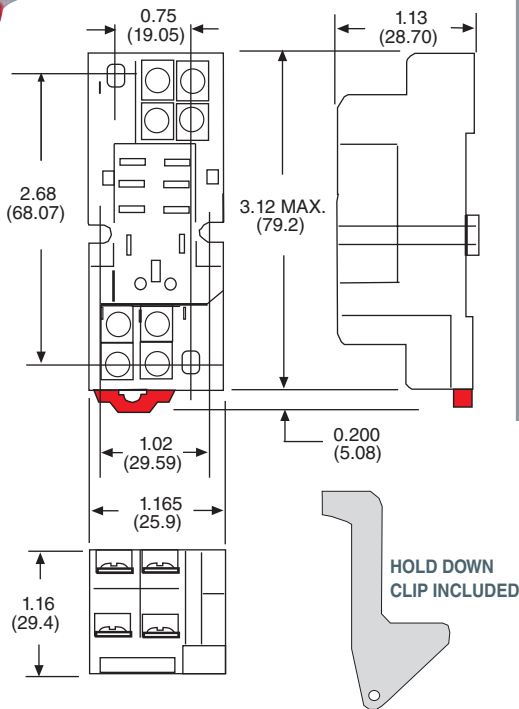
DESIGNED FOR PANEL OR DIN MOUNT.

GENERAL SPECIFICATIONS (@ 25°C)

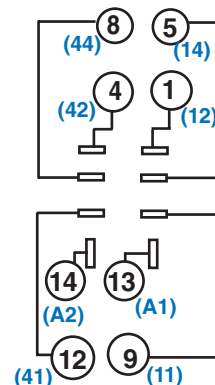
	UNITS	
NUMBER OF TERMINALS		8
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	16 / 20
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2000
Output to Input Terminals:	V rms	2000
Terminals to Rail Chassis:	V rms	2000
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	IP20
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3.5 x 0.06 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	8 / 0.90
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	8 - 10 / 0.90 - 1.13
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 12 / 0.5 - 3.0
Body Color:		Light gray
DIN Locking Clip Color:		Red
Weight:	grams	55

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

Mating Relay
782
See section 1
Mating Hold Down Clip
16-1349

STANDARD PART NUMBER	DESCRIPTION
70 - 782D - 1	8 PIN FINGER SAFE SOCKET, DIN / PANEL MOUNT WITH SCREW TERMINALS & CLAMPING PLATES.

16 AMPS, 300 VOLTS



COMPLIES WITH REQUIREMENTS OF

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

FEATURES

HEAVY DUTY 1 PIECE TRACK AND CONTACT SYSTEM:

IMPROVED CONTACT DESIGN:

FINGER SAFE:

MODULE COMPATIBLE

TWO WAY PANEL MOUNTING:

PLASTIC HOLD DOWN CLIP AND I.D TAG SYSTEM:

BENEFITS

ALLOWS FOR GREATER HEAT DISSIPATION AND LOWER CONTACT RESISTANCE AT THE RELAY TERMINALS.

ALLOWS FOR MORE AREA OF CONTACT ON RELAY TERMINALS, RESULTING IN LOWER CONTACT RESISTANCE AT RELAY TERMINALS.

PREVENTS SHOCK TO OPERATORS BY KEEPING FINGERS AWAY FROM LIVE CIRCUITS.

ALLOWS FOR OPTIONAL PROTECTION OR LED MODULES TO BE USED WITH SOCKET

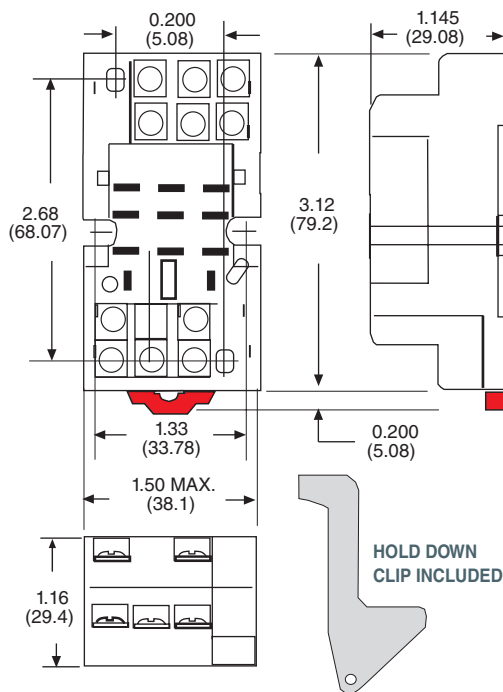
RETROFITS BOTH IDEC AND OMRON MOUNTING, IDEAL REPLACEMENT FOR EXISTING SOCKETS

ALLOWS FOR QUICK LOCKING OF RELAY IN TO SOCKETS AND REMAINS WITH SOCKET IF RELAY IS REMOVED. I.D. TAG IS IDEAL FOR CIRCUIT OR RELAY IDENTIFICATION.

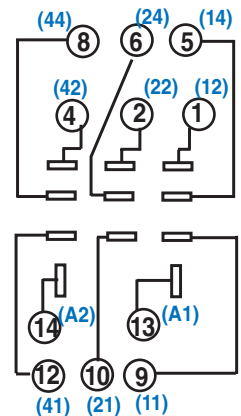
DESIGNED FOR PANEL OR DIN MOUNT.

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA OR IEC () NUMBERS VIEWED FROM PIN SIDE

Mating Relay
783

See section 1
Mating Hold Down Clip
16-1350

GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	11
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	16
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2000
Output to Input Terminals:	V rms	2000
Terminals to Rail Chassis:	V rms	2000
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	IP20
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3.5 x 0.06 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	8 / 0.90
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	8 - 10 / 0.90 - 1.13
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 12 / 0.5 - 3.0
Body Color:		Light gray
DIN Locking Clip Color:		Red
Weight:	grams	62

STANDARD PART NUMBER	DESCRIPTION
70 - 783D -1	11 PIN SOCKET, FINGER SAFE, DIN / PANEL MOUNT WITH SCREW TERMINALS & CLAMPING PLATES.



COMPLIES WITH REQUIREMENTS OF

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

16 AMPS, 300 VOLTS

FEATURES

- HEAVY DUTY 1 PIECE TRACK AND CONTACT SYSTEM:
- IMPROVED CONTACT DESIGN:
- FINGER SAFE:
- MODULE COMPATIBLE
- TWO WAY PANEL MOUNTING:
- PLASTIC HOLD DOWN CLIP AND I.D TAG SYSTEM:

BENEFITS

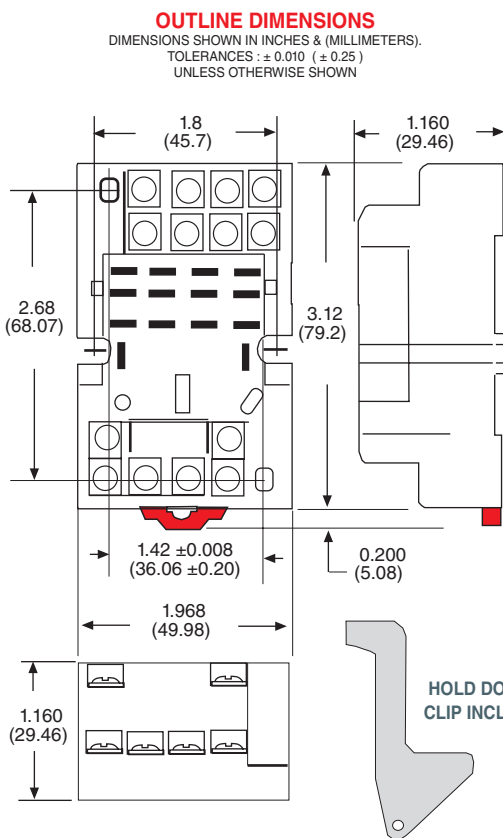
- ALLOWS FOR GREATER HEAT DISSIPATION AND LOWER CONTACT RESISTANCE AT THE RELAY TERMINALS.
- ALLOWS FOR MORE AREA OF CONTACT ON RELAY TERMINALS, RESULTING IN LOWER CONTACT RESISTANCE AT RELAY TERMINALS.
- PREVENTS SHOCK TO OPERATORS BY KEEPING FINGERS AWAY FROM LIVE CIRCUITS.
- ALLOWS FOR OPTIONAL PROTECTION OR LED MODULES TO BE USED WITH SOCKET
- RETROFITS BOTH IDEC AND OMRON MOUNTING, IDEAL REPLACEMENT FOR EXISTING SOCKETS
- ALLOWS FOR QUICK LOCKING OF RELAY IN TO SOCKETS AND REMAINS WITH SOCKET IF RELAY IS REMOVED. I.D. TAG IS IDEAL FOR CIRCUIT OR RELAY IDENTIFICATION.

DESIGNED FOR PANEL
OR DIN MOUNT.

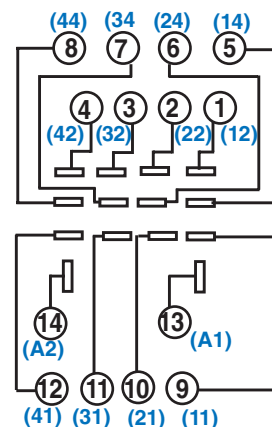
MANUFACTURED
UNDER
ISO 9001

GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
NUMBER OF TERMINALS		14
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	16
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2000
Output to Input Terminals:	V rms	2000
Terminals to Rail Chassis:	V rms	2000
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	IP20
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3.5 x 0.06 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	8 / 0.90
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	8 - 10 / 0.90 - 1.13
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 12 / 0.5 - 3.0
Body Color:		Light gray
DIN Locking Clip Color:		Red
Weight:	grams	77



WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

Mating Relay
784
See section 1
Mating Hold Down Clip
16-1351

STANDARD PART NUMBER	DESCRIPTION
70 - 784D -1	14 PIN SOCKET, FINGER SAFE, DIN / PANEL MOUNT WITH SCREW TERMINALS & CLAMPING PLATES.

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

MANUFACTURED
UNDER
ISO 9001

15 AMPS, 300 VOLTS
10 AMPS, 600 VOLTS

FEATURES

COMPLETE ISOLATION OF ALL INTERNAL METAL TRACKS AND CONTACTS:

SCREWS & CLAMPING PLATES DESIGNED WITH MAXIMUM SET BACK:

EXTENDED PANEL MOUNTING SCREW SLOTS:

HEAVY DUTY 1 PIECE TRACK AND CONTACT SYSTEM:

STANDARD DIN RAIL MOUNTING:

BENEFITS

IDEAL FOR APPLICATIONS THAT REQUIRE UP TO 600 VOLTS.

ELIMINATES ARCING BETWEEN TERMINALS AND THE NEED FOR WIRE TERMINALS.

ALLOWS FOR HOLE CENTERS FROM 1.29" UP 1.4". IDEAL REPLACEMENT IN MANY EXISTING SOCKET MOUNTING APPLICATIONS.

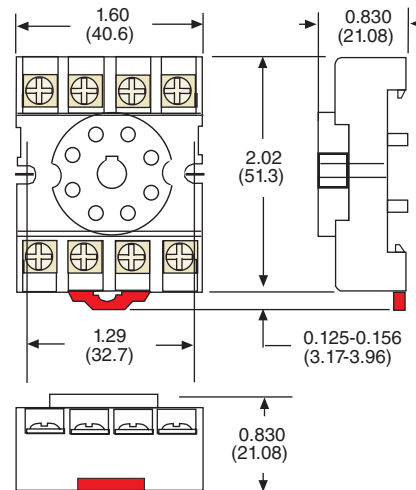
ALLOWS FOR GREATER HEAT DISSIPATION AND LOWER CONTACT RESISTANCE AT THE RELAY TERMINALS.

FITS ALL STANDARD 35 MILLIMETER DIN TRACKS.

DESIGNED FOR PANEL
OR DIN MOUNT.

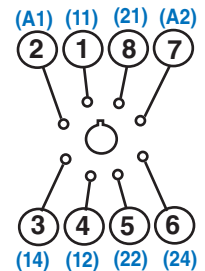
OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



HOLD DOWN CLIPS ARE
ORDERED SEPARATELY

WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

Mating Relays

750XBX, 750BHX

See section 1

211, 222, 236, TDRPRO, TDRSOXP

See section 4

Mating Hold Down Clips

(750XBH, 750BHXH)

16-1344

GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	8
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300 / 600
Nominal Current Rating:	Amps	15 / 10
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2000
Output to Input Terminals:	V rms	2000
Terminals to Rail Chassis:	V rms	2000
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	IP20
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3.5 x 0.06 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	9 / 1.01
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	8 - 10 / 0.90 - 1.13
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 12 / 0.5 - 3.0
Body Color:		Light gray
DIN Locking Clip Color:		Red
Weight:	grams	40

STANDARD PART NUMBER	DESCRIPTION
70 - 464 - 1	8 PIN OCTAL SOCKET, DIN / PANEL MOUNT WITH SCREW TERMINALS & CLAMPING PLATES.

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

MANUFACTURED
UNDER
ISO 9001

FEATURES

COMPLETE ISOLATION OF ALL INTERNAL METAL TRACKS AND CONTACTS:

HEAVY DUTY 1 PIECE TRACK AND CONTACT SYSTEM:

STANDARD DIN RAIL MOUNTING:

BENEFITS

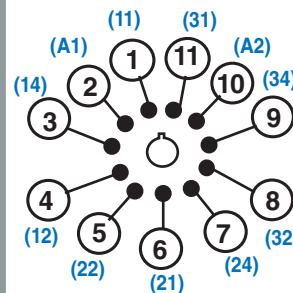
IDEAL FOR APPLICATIONS THAT REQUIRE UP TO 600 VOLTS.

ALLOWS FOR GREATER HEAT DISSIPATION AND LOWER CONTACT RESISTANCE AT THE RELAY TERMINALS.

FITS ALL STANDARD 35 MILLIMETER DIN TRACKS.

DESIGNED FOR PANEL OR DIN MOUNT.

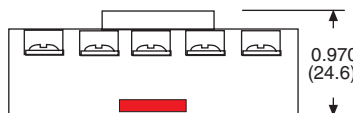
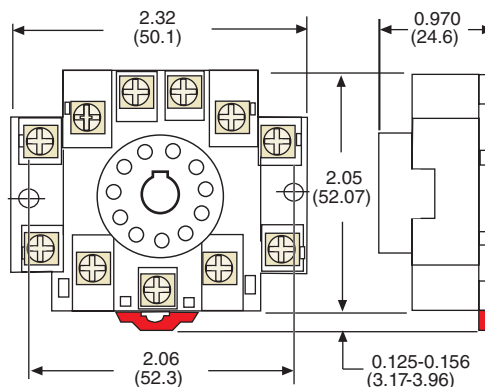
WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA OR IEC () NUMBERS VIEWED FROM PIN SIDE

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



HOLD DOWN CLIPS ARE ORDERED SEPARATELY

GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
NUMBER OF TERMINALS		11
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300 / 600
Nominal Current Rating:	Amps	15 / 5
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2000
Output to Input Terminals:	V rms	2000
Terminals to Rail Chassis:	V rms	2000
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	-
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3.5 x 0.06 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	9 / 1.01
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	8 - 10 / 0.90 - 1.13
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 12 / 0.5 - 3.0
Body Color:		Light gray
DIN Locking Clip Color:		Red
Weight:	grams	57

Mating Relays

750XCX, 750CXH

See section 1

211, TDRPRO, TDRSRXP

See section 4

755/250ML

See section 5

Mating Hold Down Clips

(750XCX, 750CXH, 755/250ML)

16-1352

(TDRSRXP)

16-1344

STANDARD PART NUMBER	DESCRIPTION
70 - 465 -1	11 PIN OCTAL SOCKET, DIN / PANEL MOUNT WITH SCREW TERMINALS & CLAMPING PLATES.



COMPLIES WITH REQUIREMENTS OF

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

**MANUFACTURED
UNDER
ISO 9001**

FEATURES

LOW PROFILE:

**HEAVY DUTY 1 PIECE
TRACK AND CONTACT
SYSTEM:**

**IMPROVED CONTACT
DESIGN:**

BENEFITS

**IDEAL IN PANEL MOUNTING APPLICATION
WHERE HEIGHT IS AT A PREMIUM.**

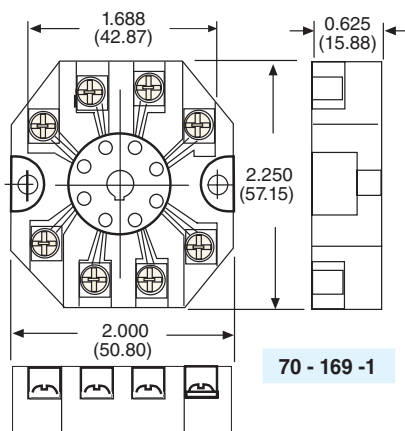
**ALLOWS FOR GREATER HEAT
DISSIPATION AND LOWER CONTACT
RESISTANCE AT THE RELAY TERMINALS.**

**ALLOWS FOR MORE AREA OF
CONTACT ON RELAY TERMINALS,
RESULTING IN LOWER CONTACT
RESISTANCE AT RELAY TERMINALS.**

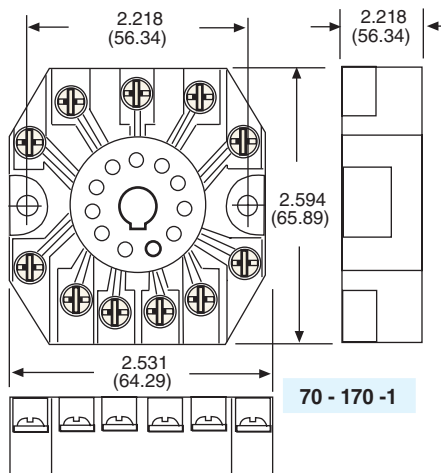
DESIGNED FOR PANEL MOUNT.

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



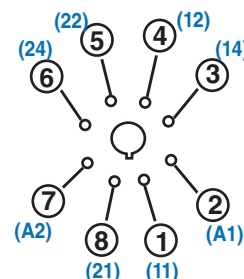
70 - 169 - 1



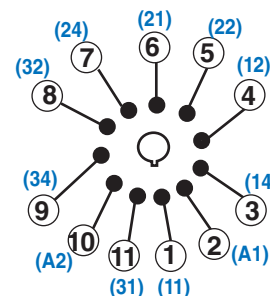
70 - 170 - 1

SPRING CLIP NOT AVAILABLE

WIRING DIAGRAM (TOP VIEW)



70 - 169 - 1



70 - 170 - 1

ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

Mating Relays
750XB, 750XC, 750CXH
See section 1
211, 222, TDRPRO,
TDRSRXP, TDRSOXP, 236
See section 4
755/250ML
See section 5

GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	8 or 11
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	15
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2000
Output to Input Terminals:	V rms	2000
Terminals to Rail Chassis:	V rms	
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	N / A
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3.5 x 0.06 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	9 / 1.01
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	8 - 10 / 0.90 - 1.13
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 12 / 0.5 - 3.0
Body Color:		Light gray
Weight:	grams	40 or 60

STANDARD PART NUMBER	DESCRIPTION
70 - 169 - 1	8 PIN OCTAL SOCKET, PANEL MOUNT WITH SCREW TERMINALS & CLAMPING PLATES.
70 - 170 - 1	11 PIN OCTAL SOCKET, PANEL MOUNT WITH SCREW TERMINALS & CLAMPING PLATES.

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

16 AMPS, 300 VOLTS
5 AMPS, 600 VOLTS

FEATURES

ISOLATED INPUTS AND OUTPUT TERMINALS:

INTERNAL COIL BUSS JUMPER SYSTEM:

MODULE COMPATIBLE:

FINGER SAFE:

36 MILLIMETERS WIDE:

BENEFITS

SEPARATES CONTROL CIRCUITS FROM LOAD CIRCUITS, PREVENTS MIS-WIRING AND POTENTIAL SHORTING BETWEEN CIRCUITS.

ALLOWS INPUTS TO COIL TO BE INTERNALLY CONNECTED TO ADJACENT SOCKETS OF THE SAME STYLE WITHOUT THE NEED FOR EXTERNAL WIRING BETWEEN SOCKETS.

ALLOWS FOR OPTIONAL PROTECTION OR L.E.D. MODULES TO BE USED WITH SOCKETS.

PREVENTS SHOCK TO OPERATORS BY KEEPING FINGERS AWAY FROM LIVE CIRCUITS.

IDEAL FOR SPACE SAVING, ALLOWS MORE SOCKETS TO BE INSTALLED ON DIN RAIL OR PANEL THAN OTHER CONVENTIONAL SOCKETS.

DESIGNED FOR PANEL OR DIN MOUNT.

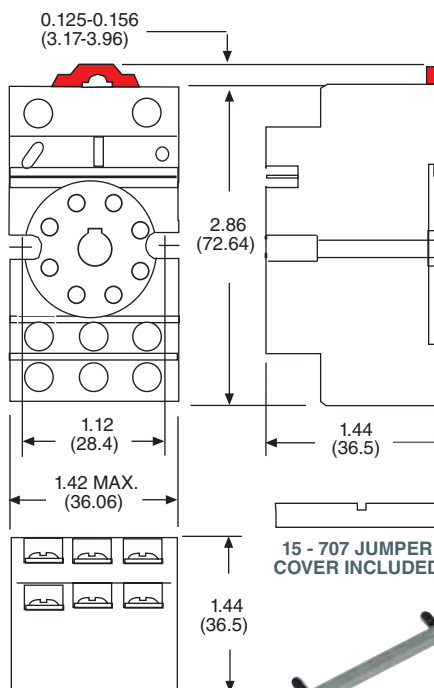


GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
NUMBER OF TERMINALS		8
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300 / 600
Nominal Current Rating:	Amps	16 / 5
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2500
Output to Input Terminals:	V rms	2500
Terminals to Rail Chassis:	V rms	2500
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	IP20
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3.5 x 0.06 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	8 / 0.90
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	8 - 10 / 0.90 - 1.13
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 12 / 0.5 - 3.0
Body Color:		Light gray
DIN Locking Clip Color:		Red
Weight:	grams	60

OUTLINE DIMENSIONS

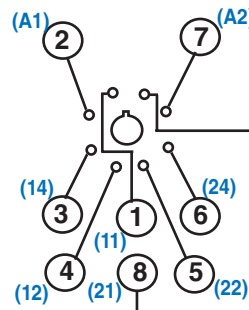
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



HOLD DOWN CLIPS ARE ORDERED SEPARATELY

COIL BUSS JUMPERS 33 - 796 ARE ORDERED SEPARATELY

WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA OR IEC () NUMBERS VIEWED FROM PIN SIDE

Mating Relays
750XBX

See section 1

211, 222, 236, TDRPRO, TDRSOXP

See section 4

Mating Hold Down Clip (750XBX) 16-1332

STANDARD PART NUMBER	DESCRIPTION
70 - 750D8 - 1	8 PIN OCTAL FINGER SAFE SOCKET, DIN / PANEL MOUNT WITH SCREW TERMINALS & CLAMPING PLATES.

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

16 AMPS, 300 VOLTS
5 AMPS, 600 VOLTS

FEATURES

ISOLATED INPUTS AND OUTPUT TERMINALS:

INTERNAL COIL BUSS JUMPER SYSTEM:

MODULE COMPATIBLE:

FINGER SAFE:

38 MILLIMETERS WIDE:

BENEFITS

SEPARATES CONTROL CIRCUITS FROM LOAD CIRCUITS, PREVENTS MIS-WIRING AND POTENTIAL SHORTING BETWEEN CIRCUITS.

ALLOWS INPUTS TO COIL TO BE INTERNALLY CONNECTED TO ADJACENT SOCKETS OF THE SAME STYLE WITHOUT THE NEED FOR EXTERNAL WIRING BETWEEN SOCKETS.

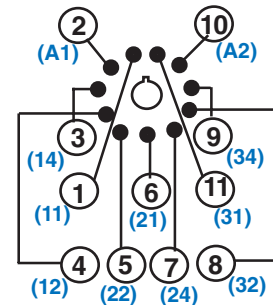
ALLOWS FOR OPTIONAL PROTECTION OR L.E.D. MODULES TO BE USED WITH SOCKETS.

PREVENTS SHOCK TO OPERATORS BY KEEPING FINGERS AWAY FROM LIVE CIRCUITS.

IDEAL FOR SPACE SAVING, ALLOWS MORE SOCKETS TO BE INSTALLED ON DIN RAIL OR PANEL THAN OTHER CONVENTIONAL SOCKETS.

DESIGNED FOR PANEL OR DIN MOUNT.

WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA OR IEC () NUMBERS VIEWED FROM PIN SIDE

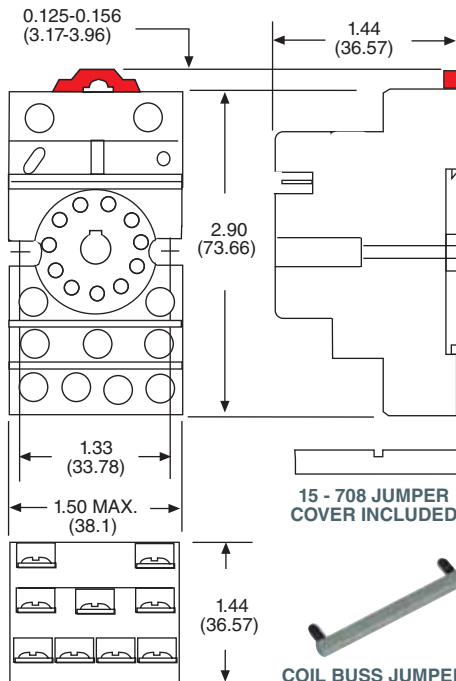
Mating Relays
750XCX, 750XCXH
See section 1
211, TDRPRO, TDRSRXP
See section 4
755/250ML
See section 5
Mating Hold Down Clip
(750XCX, 750XCXH, 755/250ML)
16-1332

GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	11
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300 / 600
Nominal Current Rating:	Amps	16 / 5
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2500
Output to Input Terminals:	V rms	2500
Terminals to Rail Chassis:	V rms	2500
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	IP20
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	M3.5 x 0.06 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	8 / 0.90
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	8 - 10 / 0.90 - 1.13
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 12 / 0.5 - 3.0
Body Color:		Light gray
DIN Locking Clip Color:		Red
Weight:	grams	78

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



HOLD DOWN CLIPS ARE ORDERED SEPARATELY

STANDARD PART NUMBER	DESCRIPTION
70 - 750D11 - 1	11 PIN OCTAL SOCKET, FINGER SAFE DIN / PANEL MOUNT WITH SCREW TERMINALS & CLAMPING PLATES.

NEW

10 AMPS, 300 VOLTS

FEATURES

TWO COMMON COIL
TERMINALS

MODULE
COMPATIBLE:

FINGER SAFE:

38 MILLIMETERS WIDE:

OPTIONAL FLIP-UP
I.D. TAGS

TERMINALS

BENEFITS

SIMPLIFIES JUMPER WIRING TO
ADJACENT SOCKETS

ALLOWS FOR OPTIONAL PROTECTION OR
L.E.D. MODULES TO BE USED WITH SOCKETS .

PREVENTS SHOCK TO OPERATORS BY
KEEPING FINGERS AWAY FROM LIVE CIRCUITS.

IDEAL FOR SPACE SAVING, ALLOWS MORE SOCKETS
TO BE INSTALLED ON DIN RAIL OR PANEL THAN OTHER
CONVENTIONAL SOCKETS.

ALLOWS FOR ALL TERMINALS TO BE
CUSTOM MARKED & IDENTIFIED

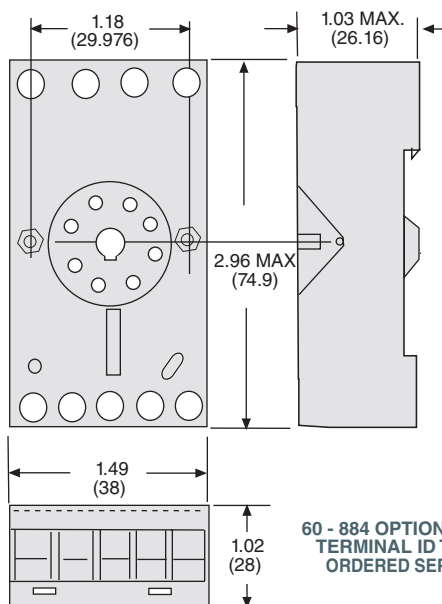
RISING ELEVATOR BOX TERMINALS

DESIGNED FOR PANEL OR DIN MOUNT.

MANUFACTURED
UNDER
ISO 9001

OUTLINE DIMENSIONS

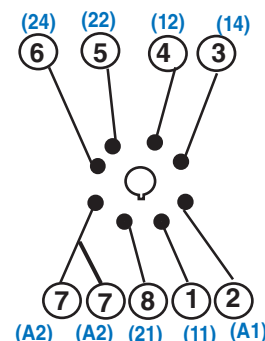
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



HOLD DOWN CLIPS ARE
ORDERED SEPARATELY

60 - 884 OPTIONAL FLIP UP
TERMINAL ID TAGS ARE
ORDERED SEPARATELY

WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
NUMBER OF TERMINALS		8
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	10
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2000
Output to Input Terminals:	V rms	2000
Terminals to Rail Chassis:	V rms	2000
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	IP20
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	M3 x 0.05 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	7 / 0.79
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	7 - 8 / 0.79 - 0.90
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 14 / 0.5 - 2.0
Body Color:		Black
DIN Locking Clip Color:		N / A
Weight:	grams	50

Mating Relays
750XBH, 750XBH
See section 1

211, 222, 236, TDRPRO, TDRSOXP
See section 4

Mating Hold Down Clip
(750XBH, 750XBH)
16-1352

STANDARD PART NUMBER	DESCRIPTION
70 - 750E8 - 1	8 PIN OCTAL, DIN / PANEL MOUNT WITH RISING ELEVATOR BOX TERMINALS

FEATURES

TWO COMMON COIL
TERMINALS

MODULE
COMPATIBLE:

FINGER SAFE:

38 MILLIMETERS WIDE:

OPTIONAL FLIP- UP
I.D. TAGS

TERMINALS

BENEFITS

SIMPLIFIES JUMPER WIRING TO
ADJACENT SOCKETS

ALLOWS FOR OPTIONAL PROTECTION OR
L.E.D. MODULES TO BE USED WITH SOCKETS .

PREVENTS SHOCK TO OPERATORS BY
KEEPING FINGERS AWAY FROM LIVE CIRCUITS.

IDEAL FOR SPACE SAVING, ALLOWS MORE SOCKETS
TO BE INSTALLED ON DIN RAIL OR PANEL THAN OTHER
CONVENTIONAL SOCKETS.

ALLOWS FOR ALL TERMINALS TO BE
CUSTOM MARKED & IDENTIFIED

RISING ELEVATOR BOX TERMINALS

DESIGNED FOR PANEL OR DIN MOUNT.

MANUFACTURED
UNDER
ISO 9001

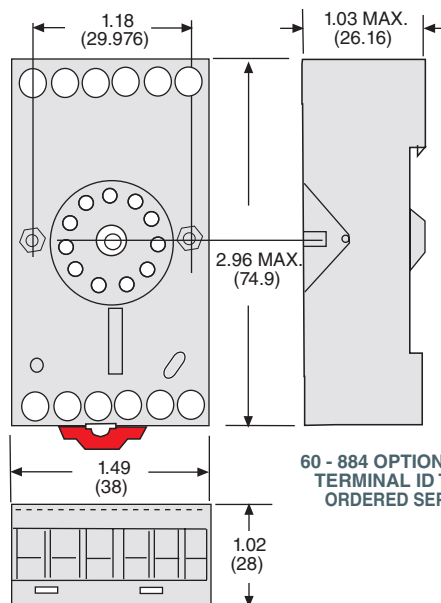


GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
NUMBER OF TERMINALS		11
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	10
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2000
Output to Input Terminals:	V rms	2000
Terminals to Rail Chassis:	V rms	2000
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	IP20
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3 x 0.05 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	7 / 0.79
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	7 - 8 / 0.79 - 0.90
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 14 / 0.5 - 2.0
Body Color:		Black
DIN Locking Clip Color:		N / A
Weight:	grams	50

OUTLINE DIMENSIONS

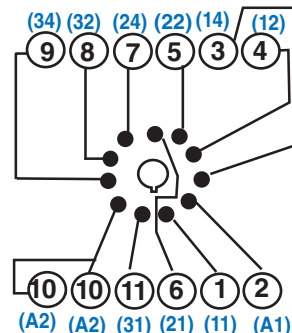
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



60 - 884 OPTIONAL FLIP UP
TERMINAL ID TAGS ARE
ORDERED SEPARATELY

HOLD DOWN CLIPS ARE
ORDERED SEPARATELY

WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

Mating Relays
750XCX, 750XCXH
See section 1
211, 222, 236, TDRPRO, TDRSRXP
See section 4
755/250ML
See section 5

Mating Hold Down Clips
(750XCX, 750XCXH, 755/250ML)
16-1352

STANDARD PART NUMBER	DESCRIPTION
70 - 750E11 - 1	11 PIN OCTAL, DIN / PANEL MOUNT WITH RISING ELEVATOR BOX TERMINALS

16 AMPS, 300 VOLTS, 5 AMPS, 600 VOLTS

FEATURES

ISOLATED INPUTS AND
OUTPUT TERMINALS:

INTERNAL COIL
BUSS JUMPER
SYSTEM:

MODULE
COMPATIBLE:

FINGER SAFE:

36 MILLIMETERS WIDE:

OPTIONAL FLIP- UP I.D. TAGS

TERMINAL CHOICE

BENEFITS

SEPARATES CONTROL CIRCUITS FROM LOAD CIRCUITS,
PREVENTS MIS -WIRING AND POTENTIAL
SHORTING BETWEEN CIRCUITS.

ALLOWS INPUTS TO COIL TO BE INTERNALLY CONNECTED
TO ADJACENT SOCKETS OF THE SAME STYLE WITHOUT
THE NEED FOR EXTERNAL WIRING BETWEEN SOCKETS.

ALLOWS FOR OPTIONAL PROTECTION OR
L.E.D. MODULES TO BE USED WITH SOCKETS .

PREVENTS SHOCK TO OPERATORS BY
KEEPING FINGERS AWAY FROM LIVE CIRCUITS.

IDEAL FOR SPACE SAVING, ALLOWS MORE SOCKETS
TO BE INSTALLED ON DIN RAIL
OR PANEL THAN OTHER CONVENTIONAL SOCKETS.

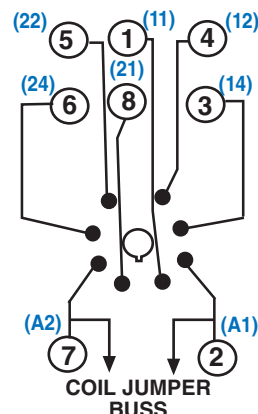
ALLOWS FOR ALL TERMINALS TO BE CUSTOM MARKED & IDENTIFIED

RIISING ELEVATOR BOX TERMINALS OR SCREW
TERMINALS WITH CLAMPING PLATES

MANUFACTURED
UNDER
ISO 9001

OUTLINE DIMENSIONS
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN

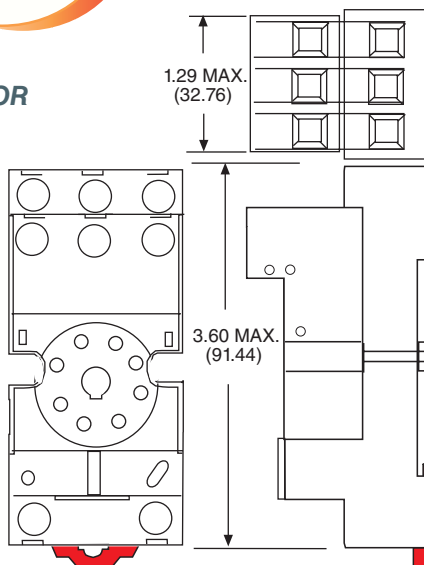
WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

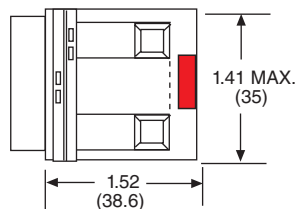
GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
NUMBER OF TERMINALS		8
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	16
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2500
Output to Input Terminals:	V rms	2500
Terminals to Rail Chassis:	V rms	2500
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	IP20
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3 x 0.05 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	7 / 0.79
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	7 - 8 / 0.79 - 0.90
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 12 / 0.5 - 3.0
Body Color:		Light Gray
DIN Locking Clip Color:		Red
Weight:	grams	Pending



HOLD DOWN CLIPS ARE
ORDERED SEPARATELY

COIL BUSS JUMPERS
33 - 797 ARE ORDERED
SEPARATELY



60 - 884 OPTIONAL FLIP UP
TERMINAL ID TAGS ARE
ORDERED SEPARATELY

Mating Relays
750XBX, 750XBXH
See section 1

Mating Hold Down Clips
(750XBX) 16-1343
(750XBXH) 16-1352

STANDARD PART NUMBER	DESCRIPTION
70 - 750EL8 - 1	DIN / PANEL MOUNT WITH ELEVATOR BOX TERMINALS
70 - 750SL8 - 1	DIN / PANEL MOUNT WITH SCREW TERMINALS & CLAMPING PLATES.

16 AMPS, 300 VOLTS, 5 AMPS, 600 VOLTS

— FEATURES —

ISOLATED INPUTS AND
OUTPUT TERMINALS:

INTERNAL COIL
BUSS JUMPER
SYSTEM:

MODULE
COMPATIBLE:

FINGER SAFE:

36 MILLIMETERS WIDE:

OPTIONAL FLIP- UP I.D. TAGS

TERMINAL CHOICE

BENEFITS

SEPARATES CONTROL CIRCUITS FROM LOAD CIRCUITS,
PREVENTS MIS -WIRING AND POTENTIAL
SHORTING BETWEEN CIRCUITS.

ALLOWS INPUTS TO COIL TO BE CONNECTED
TO ADJACENT SOCKETS OF THE SAME STYLE WITHOUT
THE NEED FOR EXTERNAL WIRING BETWEEN SOCKETS.

ALLOWS FOR OPTIONAL PROTECTION OR
L.E.D. MODULES TO BE USED WITH SOCKETS .

PREVENTS SHOCK TO OPERATORS BY
KEEPING FINGERS AWAY FROM LIVE CIRCUITS.

IDEAL FOR SPACE SAVING, ALLOWS MORE SOCKETS
TO BE INSTALLED ON DIN RAIL
OR PANEL THAN OTHER CONVENTIONAL SOCKETS.

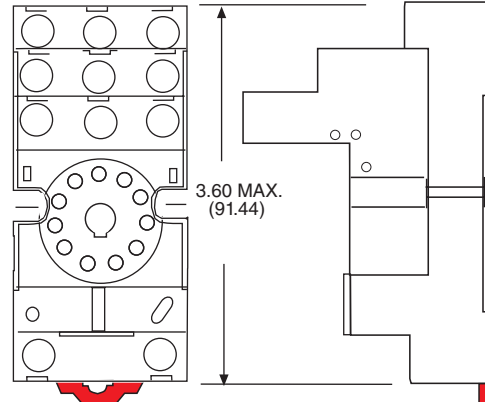
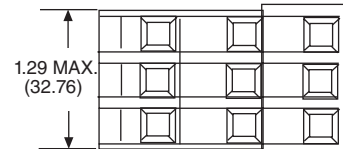
ALLOWS FOR ALL TERMINALS TO BE CUSTOM MARKED & IDENTIFIED

RIISING ELEVATOR BOX TERMINALS OR SCREW
TERMINALS WITH CLAMPING PLATES

MANUFACTURED
UNDER
ISO 9001

DESIGNED FOR PANEL
OR DIN MOUNT.

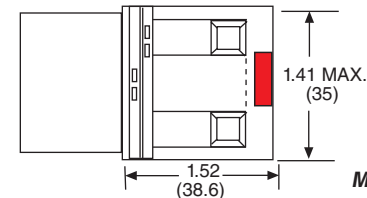
OUTLINE DIMENSIONS
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



HOLD DOWN CLIPS ARE
ORDERED SEPARATELY

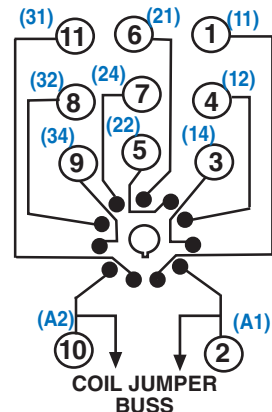


COIL BUSS JUMPERS
33 - 797 ARE ORDERED
SEPARATELY



60 - 884 OPTIONAL FLIP UP
TERMINAL ID TAGS ARE
ORDERED SEPARATELY

WIRING DIAGRAM (TOP VIEW)



ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

Mating Relays
750XCX, 750XCXH
See section 1
TDRSRXP
See section 4
755/250ML
See section 5

Mating Hold Down Clips
(750XCX) 16-1343
(750XCXH, 755/250ML) 16-1352
(TDRSRXP) 16-1344

GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
NUMBER OF TERMINALS		11
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	16
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2500
Output to Input Terminals:	V rms	2500
Terminals to Rail Chassis:	V rms	2500
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	IP20
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3 x 0.05 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	7 / 0.79
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	7 - 8 / 0.79 - 0.90
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 12 / 0.05 - 3.0
Body Color:		Light Gray
DIN Locking Clip Color:		Red
Weight:	grams	Pending

STANDARD PART NUMBER	DESCRIPTION
70 - 750EL11 - 1	DIN / PANEL MOUNT WITH ELEVATOR BOX TERMINALS
70 - 750SL11 - 1	DIN / PANEL MOUNT WITH SCREW TERMINALS & CLAMPING PLATES.

15 AMPS, 300 VOLTS

UL US
UL Recognized
File No. E70550

CS
97899



COMPLIES WITH REQUIREMENTS OF

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

FEATURES

HEAVY DUTY 1 PIECE TRACK AND CONTACT SYSTEM:

STANDARD DIN RAIL MOUNTING:

BENEFITS

ALLOWS FOR GREATER HEAT DISSIPATION AND LOWER CONTACT RESISTANCE AT THE RELAY TERMINALS.

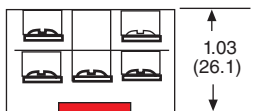
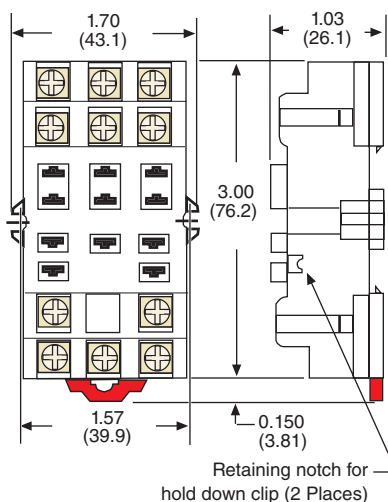
FITS ALL STANDARD 35 MILLIMETER DIN TRACKS.

DESIGNED FOR PANEL OR DIN MOUNT.

**MANUFACTURED
UNDER
ISO 9001**

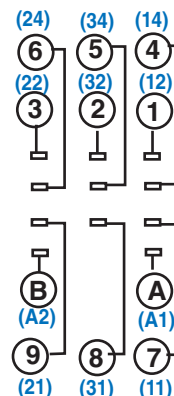
OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



**HOLD DOWN CLIPS ARE
ORDERED SEPARATELY**

WIRING DIAGRAM (TOP VIEW)



**ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE**

Mating Relays

788, A283

See section 1

388TDR, TDRSOXB

See section 4

Mating Hold Down Clips

(788) 16-1352

(A283) 16-1340

(388TDR) 16-1239 Long Body

(TDRSOXB) 16-1239

GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
NUMBER OF TERMINALS		11
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	15
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2000
Output to Input Terminals:	V rms	2000
Terminals to Rail Chassis:	V rms	2000
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	N / A
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3.5 x 0.06 x 5.08
Screw Terminal Torque Maximum:	Lb-in / Nm	9 / 1.01
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	8 - 10 / 0.90 - 1.13
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20-12 / 0.5 - 3.0
Body Color:		Light gray
DIN Locking Clip Color:		Red
Weight:	grams	51

STANDARD PART NUMBER	DESCRIPTION
70 - 463 - 1	11 PIN SOCKET, DIN/PANEL MOUNT, WITH SCREW TERMINALS & CLAMPING PLATES.

30 AMPS WHEN OUTPUT TERMINALS
ARE USED IN PARALLEL

25 AMPS, 300 VOLTS

FEATURES

ISOLATED INPUTS AND
OUTPUT TERMINALS:

INTERNAL COIL BUSS
JUMPER SYSTEM:

MODULE COMPATIBLE:

36 MILLIMETERS WIDE:

OPTIONAL FLIP- UP I.D. TAGS

TERMINAL CHOICE

OPTIONAL PANEL MOUNT ADAPTER

MULTI - USE PLUG - IN TERMINALS

BENEFITS

SEPARATES CONTROL CIRCUITS FROM LOAD CIRCUITS, PREVENTS
MIS - WIRING AND POTENTIAL SHORTING BETWEEN CIRCUITS.

ALLOWS INPUTS TO COIL TO BE CONNECTED TO ADJACENT
SOCKETS OF THE SAME STYLE WITHOUT
THE NEED FOR EXTERNAL WIRING BETWEEN SOCKETS.

ALLOWS FOR OPTIONAL PROTECTION OR
L.E.D. MODULES TO BE USED WITH SOCKETS .

IDEAL FOR SPACE SAVING, ALLOWS MORE SOCKETS TO BE INSTALLED
ON DIN RAIL OR PANEL THAN OTHER CONVENTIONAL SOCKETS.

ALLOWS FOR ALL TERMINALS TO BE CUSTOM MARKED & IDENTIFIED

RIISING ELEVATOR BOX TERMINALS OR SCREW
TERMINALS WITH CLAMPING PLATES

ALLOWS PANEL MOUNTING TO NEW OR EXISTING APPLICATIONS

ACCEPT 0.187 OR 0.250 PLUG - IN TERMINALS

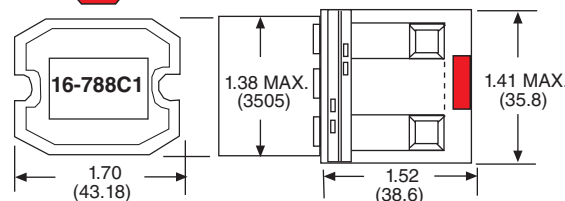
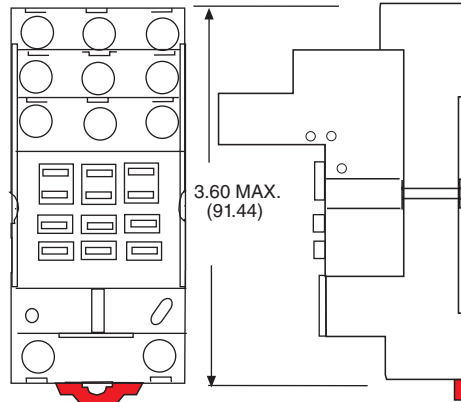
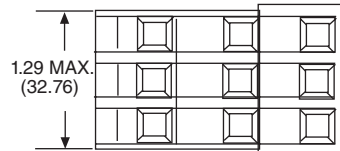
DESIGNED FOR PANEL OR DIN MOUNT

60 - 884 OPTIONAL FLIP UP
TERMINAL ID TAGS ARE
ORDERED SEPARATELY

HOLD DOWN CLIPS ARE
ORDERED SEPARATELY

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN

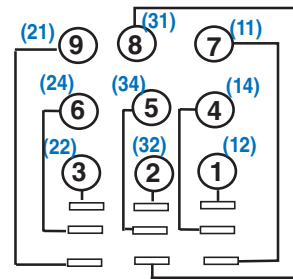


PANEL MOUNT ADAPTER IS
ORDERED SEPARATELY

COIL BUSS JUMPERS
33 - 797 ARE ORDERED
SEPARATELY

MANUFACTURED
UNDER
ISO 9001

WIRING DIAGRAM (TOP VIEW)



COIL JUMPER
BUSS

ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

Mating Relays
788, A283, 388, 389
See section 1
388TDR
See section 4
Mating Hold Down Clips
(788) **16-1343**
(A283) **16-1352**

GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	11
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	25 / 30
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2000
Output to Input Terminals:	V rms	2000
Terminals to Rail Chassis:	V rms	2000
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	IP20
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3.5 x 0.05 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	7 / 0.79
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	7 - 8 / 0.79 - 0.90
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 10 / 0.5 - 5.0
Body Color:		Light Gray
DIN Locking Clip Color:		Red
Weight:	grams	Pending

STANDARD PART NUMBER	DESCRIPTION
70 - 788EL11 - 1	11 PIN LOGIC SOCKET, FINGER SAFE, WITH RISING ELEVATOR BOX TERMINALS
70 - 788SL11 - 1	11 PIN LOGIC SOCKET, FINGER SAFE, WITH SCREW TERMINALS & CLAMPING PLATES.
16 - 788C1	OPTIONAL PANEL MOUNT ADAPTER

10 AMPS, 600 VOLTS

UL US
UL Recognized
File No. E70550

CS
40787

— FEATURES —

**INTEGRAL LOCKING
RECEPTACLE**

**HEAVY DUTY 1 PIECE
TRACK AND CONTACT
SYSTEM:**

**IMPROVED CONTACT
DESIGN:**

**STANDARD DIN RAIL
MOUNTING:**

FINGER SAFE:

— BENEFITS —

**MATES WITH RELAY LOCKING CLIP. ELIMINATES THE
NEED FOR EXTERNAL RELAY HOLD DOWN CLIPS.**

**IDEAL FOR APPLICATIONS THAT REQUIRE
UP TO 600 VOLTS.**

**ALLOWS FOR MORE AREA OF CONTACT ON
RELAY TERMINALS, RESULTING IN LOWER
CONTACT RESISTANCE AT RELAY TERMINALS.**

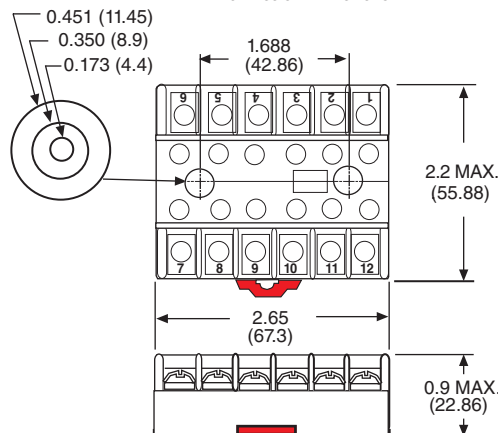
**FITS ALL STANDARD 35 MILLIMETER
DIN TRACKS.**

**PREVENTS SHOCK TO OPERATORS BY KEEPING
FINGERS AWAY FROM LIVE CIRCUITS.
MEETS IP-20 REQUIREMENTS.**

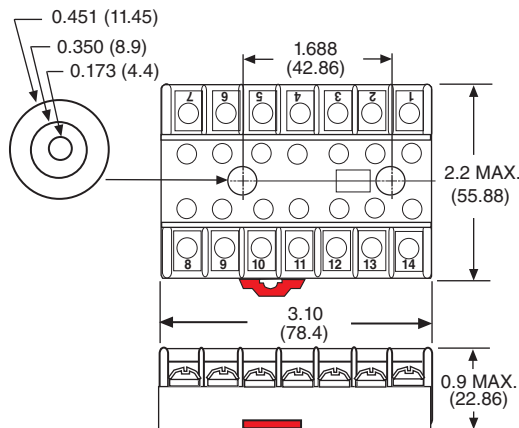
**DESIGNED FOR PANEL
OR DIN MOUNT.**

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



**27390D
12 PIN**



**33377D
14 PIN**

Mating Relays
219
See section 1
246/247
See section 4
B255, A311
See section 5

GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	12 or 14
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	600
Nominal Current Rating:	Amps	10
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2000
Output to Input Terminals:	V rms	2000
Terminals to Rail Chassis:	V rms	2000
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	IP20
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screws Terminals:		Steel, Zinc Plated
Screw Style and Size:	mm	Combination Head, M3.5 x 0.06 x 6.35
Screw Terminal Torque Maximum:	Lb-in / Nm	9 / 1.01
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	8 - 10 / 0.90 - 1.13
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 12 / 0.5 - 3.0
Body Color:		Light gray
DIN Locking Clip Color:		Red
Weight:	grams	102 or 129

STANDARD PART NUMBER	DESCRIPTION
27390D	12 PIN SOCKET DIN/PANEL MOUNT, WITH SCREW TERMINALS & CLAMPING PLATES.
33377D	14 PIN SOCKET DIN/PANEL MOUNT, WITH SCREW TERMINALS & CLAMPING PLATES.

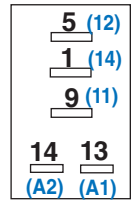


COMPLIES WITH REQUIREMENTS OF

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

15 AMPS, 300 VOLTS

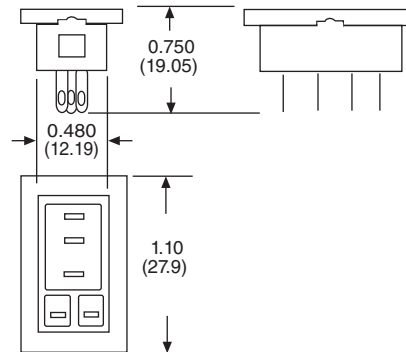
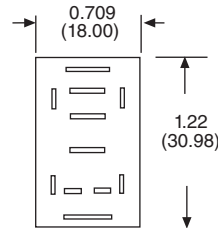
WIRING DIAGRAM
(TOP VIEW)



DESIGNED FOR CHASSIS MOUNT.

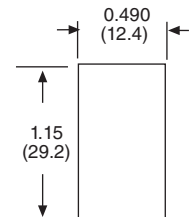
OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

RECOMMENDED CHASSIS CUTOUT TOP VIEW



GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
NUMBER OF TERMINALS		5
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	15
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:		
Output to Input Terminals:	V rms	2500
Terminals to Rail Chassis:		
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	N / A
Internal Metal Tracks:		Copper Alloy, Zinc Plated
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	N / A
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 14 / 0.5 - 2.0
Body Color:		Light gray
Weight:	grams	18

HOLD DOWN CLIPS ARE ORDERED SEPARATELY

Mating Relay
781
See section 1
Mating Hold Down Clip
16-1326

STANDARD PART NUMBER	DESCRIPTION
70-781F-1	5 PIN, SOLDER TERMINALS, FOR CHASSIS MOUNT

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

**MANUFACTURED
UNDER
ISO 9001**

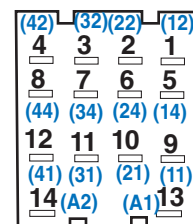
DESIGNED FOR CHASSIS MOUNT.

16 -1342 EAST-WEST HOLD DOWN CLIP

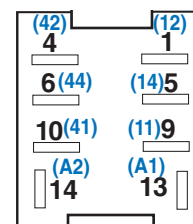
16 -1324 NORTH- SOUTH HOLD DOWN

HOLD DOWN CLIPS ARE ORDERED SEPARATELY

WIRING DIAGRAM (TOP VIEW)



14 PIN

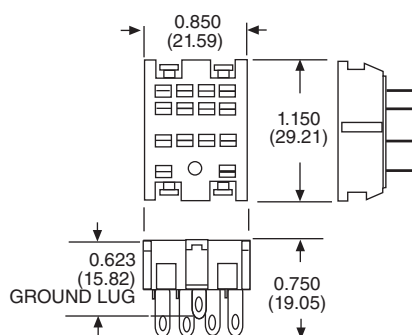


8 PIN

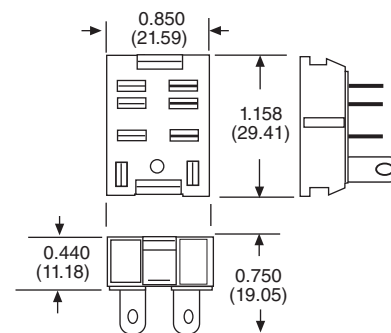
ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN

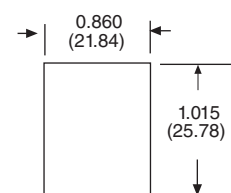


70 - 378 - 1



70 - 401 - 1

RECOMMENDED CHASSIS CUTOUT TOP VIEW



GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	8 or 14
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	10 / 5
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	1500
Output to Input Terminals:	V rms	1500
Terminals to Rail Chassis:	V rms	
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	N / A
Internal Metal Tracks:		Copper Alloy, Zinc Plated
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	N / A
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 18 / 0.5 - 1.0
Body Color:		Light gray
Weight:	grams	6.2 or 6.5

Mating Relays

782, 782H

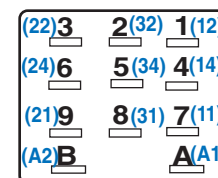
See section 1

Mating Hold Down Clips

(782) 16-1342

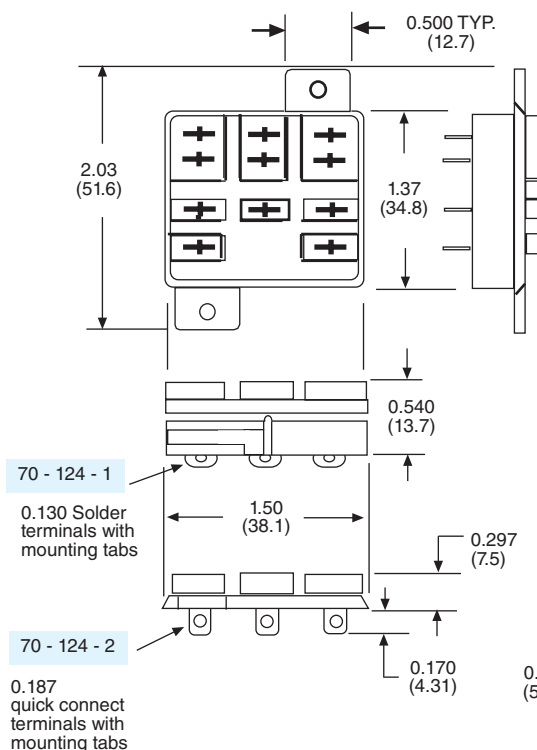
(782H) 16-1324

STANDARD PART NUMBER	DESCRIPTION
70 - 378 - 1	14 PIN SOLDER TERMINALS - 5 AMPS
70 - 401 - 1	8 PIN SOLDER TERMINALS- 10 AMPS

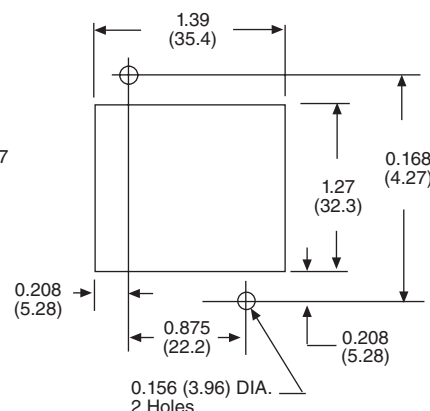


ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

OUTLINE DIMENSIONS
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



**RECOMMENDED
CHASSIS CUTOUT
BOTTOM VIEW**



GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
NUMBER OF TERMINALS		11
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	15
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2500
Output to Input Terminals:	V rms	2500
Terminals to Rail Chassis:	V rms	
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	N / A
Internal Metal Tracks:		Copper Alloy, Zinc Plated
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	N / A
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	20 - 16 / 0.5 - 1.0
Body Color:		Light gray
Weight:	grams	12.1

16-722-2 HOLD DOWN CLIP SAME AS 16-1278 EXCEPT MOUNTS TO SOCKET TABS WITH SCREWS .FOR HIGH VIBRATION APPLICATIONS
HOLD DOWN CLIPS ARE ORDERED SEPARATELY

Mating Relays

A283, 788

See section 1

Mating Hold Down Clips

(A283) 16-1278

(388TDR) 16-1339 Long Body

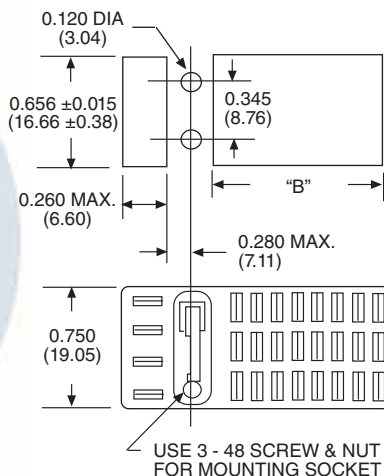
(788)16-1325

STANDARD PART NUMBER	DESCRIPTION
70 - 124 - 1	11 PIN 0.130 SOLDER TERMINALS WITH MOUNTING TABS
70 - 124 - 2	11 PIN 0.187 (4.74) QUICK CONNECT TERMINALS WITH MOUNTING TABS

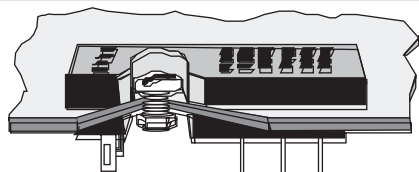
- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT



RECOMMENDED CHASSIS CUTOUT BOTTOM VIEW



CHASSIS CUTOUT

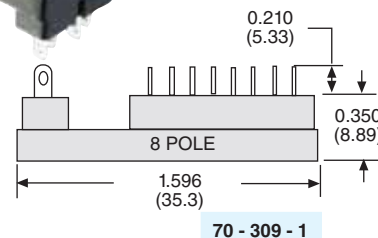
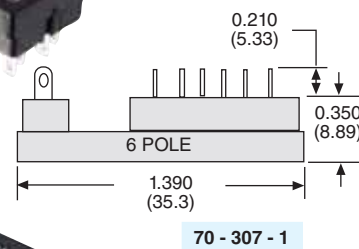
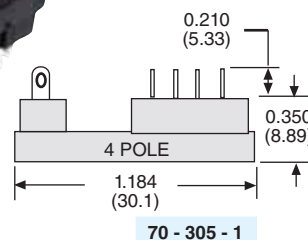
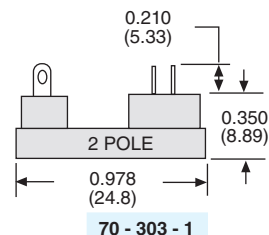


CHASSIS CUTOUT DIMENSION "B"

SPDT DPDT	4PDT	6PDT	8PDT
0.343 (8.71)	0.562 (14.27)	0.781 (19.84)	1.00 (25.4)

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES: ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	8, 14 or 20
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	10
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	1000
Output to Input Terminals:	V rms	1000
Terminals to Rail Chassis:	V rms	1000
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	N / A
Internal Metal Tracks:		Copper Alloy, Zinc Plated
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	N / A
Flammability Rating:		
Wire Size:	AWG/mm2	20 - 18 / 0.5 - 0.8
Body Color:		Black
Weight:	grams	4.3 - 6.9

HOLD DOWN CLIPS ARE INCLUDED

Mating Relay
67

See section 1

Mating Hold Down Clips

(70-303-1) 16-875-1

(70-305-1) 16-875-2

(70-307-1) 16-875-3

(70-309-1) 16-1120-8

STANDARD PART NUMBER	DESCRIPTION
70 - 303 - 1	2 POLE SOLDER TERMINALS
70 - 305 - 1	4 POLE SOLDER TERMINALS
70 - 307 - 1	6 POLE SOLDER TERMINALS
70 - 309 - 1	8 POLE SOLDER TERMINALS

COMPLIES WITH REQUIREMENTS OF

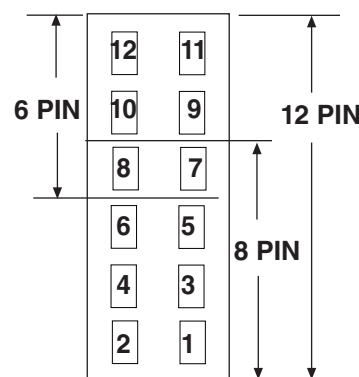
- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT



DESIGNED FOR PANEL MOUNT.

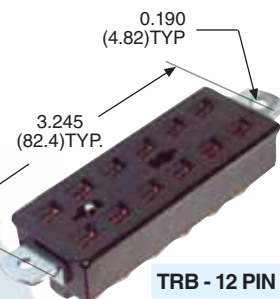
15 AMPS, 250 VOLTS

WIRING DIAGRAM
(TOP VIEW)

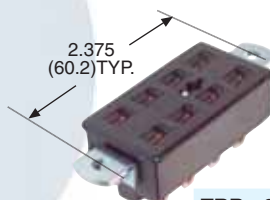


OUTLINE DIMENSIONS

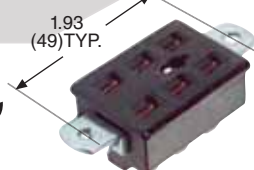
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25) UNLESS OTHERWISE SHOWN



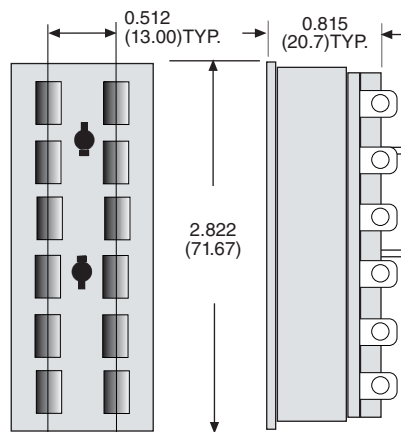
TRB - 12 PIN



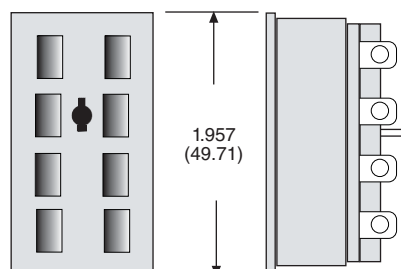
TRB - 8 PIN



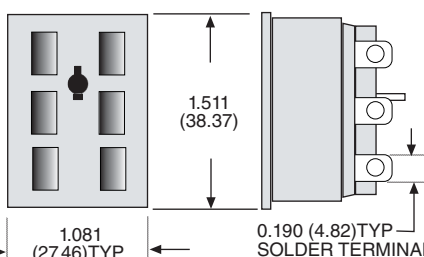
TRB - 6 PIN



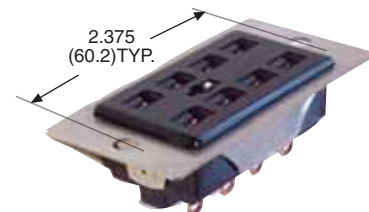
TRF - 12 PIN



TRF - 8 PIN



TRF - 6 PIN



STAINLESS STEEL
FLANGE BRACKET

CHASSIS CUTOUT CHART

PINS	LENGTH	WIDTH
6	1.61 (40.8)	1.10 MAX (27.9)
8	2.05 (52)	
12	2.94 (74.6)	

GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	6, 8 or 12
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	250
Nominal Current Rating:	Amps	15
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2000
Output to Input Terminals:	V rms	2000
Terminals to Rail Chassis:	V rms	-
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	-
Internal Metal Tracks:		Phosphor Bronze
Screws Terminals:	mm	-
Screw Style and Size:		-
Screw Terminal Torque Maximum:	Lb-in / Nm	-
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+125
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	N / A
Flammability Rating:		-
Wire Size:	AWG / mm	12 / 3.0
Body Color:		Black
DIN Locking Clip Color:		-
Weight:	grams	35, 45, 50

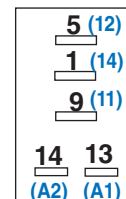
STANDARD PART NUMBERS	DESCRIPTION
70-TRF6-1	6 PIN CHASSIS MOUNT WITH FLANGE BRACKET
70-TRF8-1	8 PIN CHASSIS MOUNT WITH FLANGE BRACKET
70-TRF12-1	12 PIN CHASSIS MOUNT WITH FLANGE BRACKET
70-TRB6-1	6 PIN CHASSIS MOUNT WITH END BRACKET
70-TRB8-1	8 PIN CHASSIS MOUNT WITH END BRACKET
70-TRB12-1	12 PIN CHASSIS MOUNT WITH END BRACKET

Mating Relay
21
See section 1

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

15 AMPS, 300 VOLTS

WIRING DIAGRAM
(TOP VIEW)

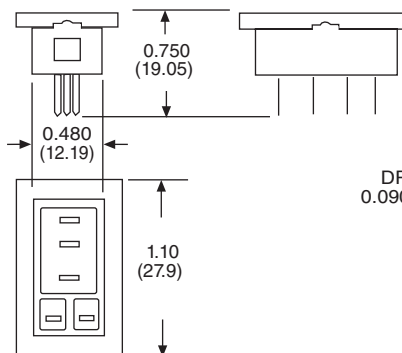
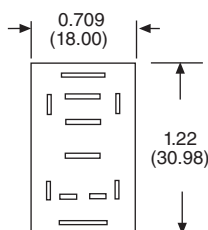


DESIGNED FOR
PRINTED CIRCUIT BOARD

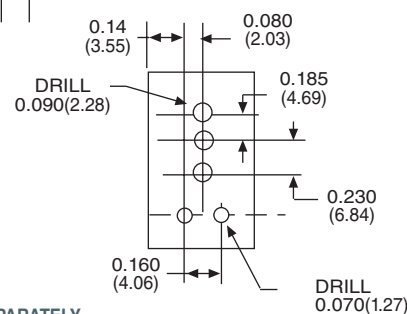
ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



RECOMMENDED PRINTED CIRCUIT BOARD LAYOUT TOP VIEW



HOLD DOWN CLIPS ARE ORDERED SEPARATELY

GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	
		5
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	15
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:		-
Output to Input Terminals:	V rms	2500
Terminals to Rail Chassis:		-
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	N / A
Internal Metal Tracks:		Copper Alloy, Zinc Plated
Screw Terminal Torque Maximum:	Lb-in / Nm	N / A
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	N / A
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	N / A
Body Color:		Light gray
Weight:	grams	18

Mating Relay
781

See section 1

Mating Hold Down Clip
16-1326

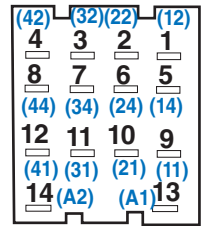
STANDARD PART NUMBER	DESCRIPTION
70-781T - 1	5 PIN, PRINTED CIRCUIT TERMINALS

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

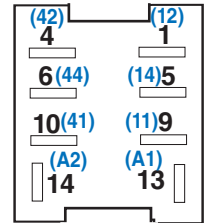
MANUFACTURED
UNDER
ISO 9001

5 & 10 AMPS, 300 VOLTS

WIRING DIAGRAM
(TOP VIEW)



14 PIN



8 PIN

ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

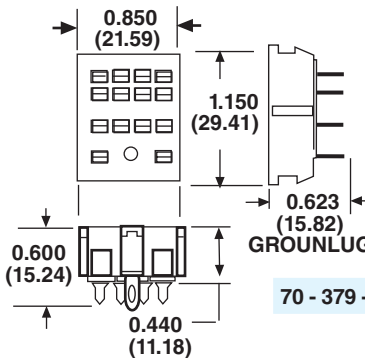
DESIGNED FOR PRINTED CIRCUIT BOARD

16 -1342 EAST-WEST HOLD DOWN CLIP
16 -1324 NORTH- SOUTH HOLD DOWN

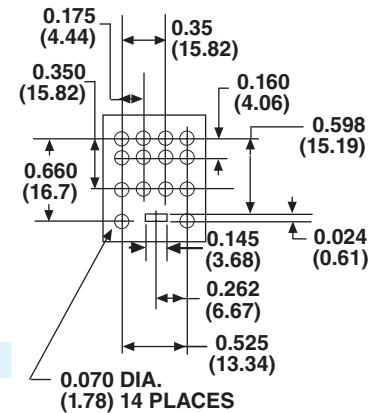
HOLD DOWN CLIPS ARE ORDERED SEPARATELY

RECOMMENDED
PRINTED CIRCUIT LAYOUT
TOP VIEW

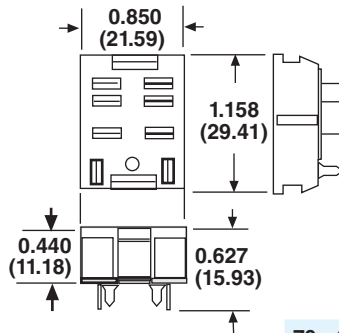
OUTLINE DIMENSIONS
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



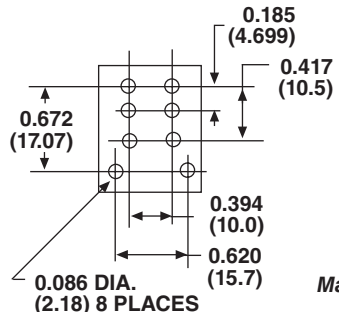
70 - 379 - 1



0.070 DIA.
(1.78) 14 PLACES



70 - 402 - 1



0.086 DIA.
(2.18) 8 PLACES

Mating Relays
782, 782H
See section 1
Mating Hold Down Clips
(782) 16-1342
(782H) 16-1324

GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	8 or 14
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	10
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	1500
Output to Input Terminals:	V rms	1500
Terminals to Rail Chassis:	V rms	
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	N / A
Internal Metal Tracks:		Copper Alloy, Zinc Plated
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	N / A
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	N / A
Body Color:		Light gray
Weight:	grams	5.8 or 5.9

STANDARD PART NUMBER	DESCRIPTION
70 - 379 - 1	14 PIN PRINTED CIRCUIT TERMINALS - 5 AMPS
70 - 402 - 1	8 PIN PRINTED CIRCUIT TERMINALS - 10 AMPS

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

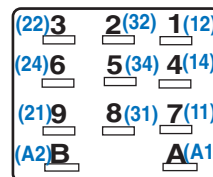
**MANUFACTURED
UNDER
ISO 9001**

**DESIGNED FOR
PRINTED CIRCUIT BOARD**

70-178-1 & 70-178-2 PRINTED CIRCUIT SOCKETS

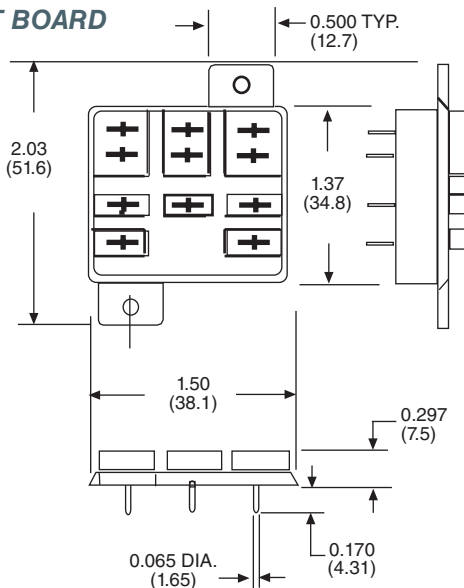
15 AMPS, 300 VOLTS

**WIRING DIAGRAM
(TOP VIEW)**

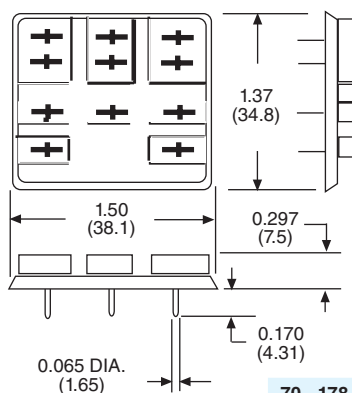


ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE

OUTLINE DIMENSIONS
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN

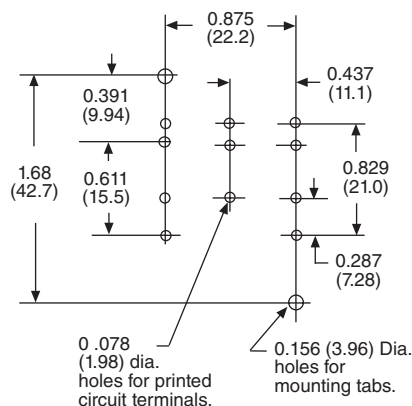


70 - 178 - 1



70 - 178 - 2

**RECOMMENDED
PRINTED CIRCUIT LAYOUT
BOTTOM VIEW**



NOTE:
0.156 HOLES
NOT REQUIRED
WHEN USING
SOCKET WITHOUT TABS

GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	
11		
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	15
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	2500
Output to Input Terminals:	V rms	2500
Terminals to Rail Chassis:	V rms	
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	N / A
Internal Metal Tracks:		Copper Alloy, Zinc Plated
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	N / A
Flammability Rating:		94V-0
Wire Size:	AWG/mm2	N / A
Body Color:		Light gray
Weight:	grams	80

16-722-2 HOLD DOWN CLIP SAME AS 16-1278 EXCEPT MOUNTS TO
SOCKET TABS WITH SCREWS .FOR HIGH VIBRATION APPLICATIONS

HOLD DOWN CLIPS ARE ORDERED SEPARATELY

Mating Relays
A283, 388TDR, 788

See section 1

Mating Hold Down Clips

(A283) 16-1278

(388TDR) 16-1339 Long Body

(788) 16-1325

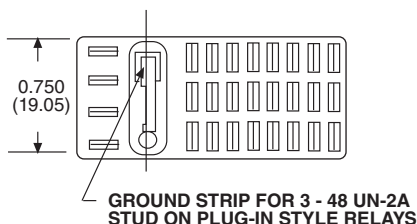
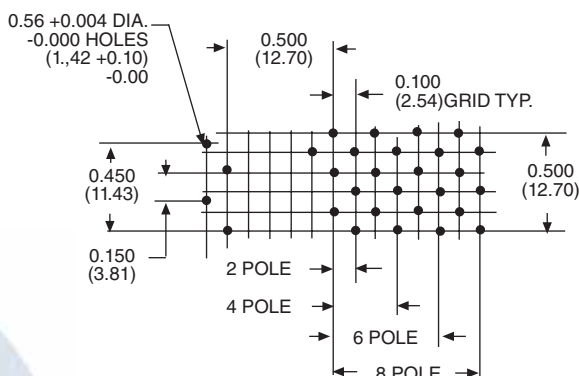
STANDARD PART NUMBER	DESCRIPTION
70 - 178 - 1	11 PIN PRINTED CIRCUIT TERMINALS WITH MOUNTING TABS
70 - 178 - 2	11 PIN PRINTED CIRCUIT TERMINALS WITHOUT MOUNTING TABS



COMPLIES WITH REQUIREMENTS OF

- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

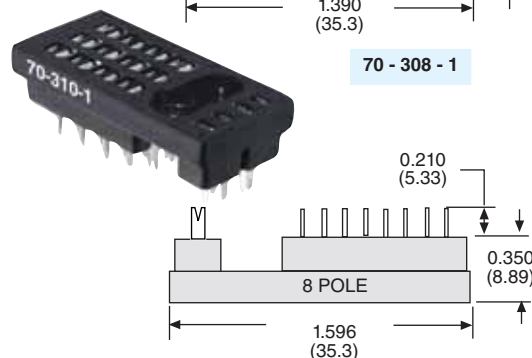
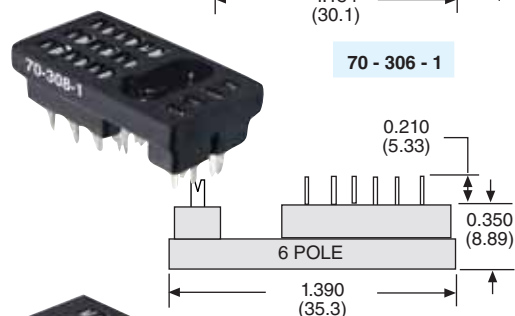
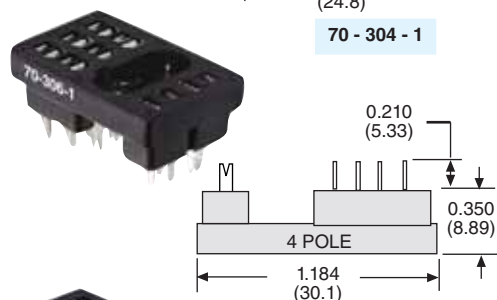
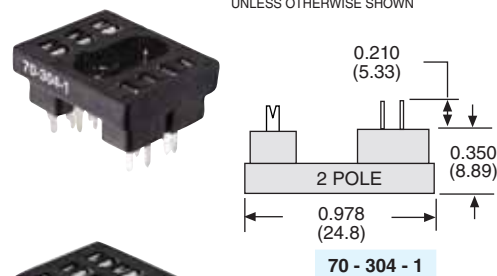
RECOMMENDED PRINTED CIRCUIT LAYOUT TOP VIEW



NOTE:
WHEN INSTALLING SOCKET(S) INTO
A PRINTED CIRCUIT BOARD, USE PLUG-IN
STYLE RELAYS FOR MAXIMUM TERMINAL
CONTACT WITH MATING SOCKET. PLUG-IN
STYLE RELAYS HAVE A GROUNDING STUD
AND ARE RECOMMENDED FOR USE
WITH ALL SOCKET STYLES.

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25)
UNLESS OTHERWISE SHOWN



HOLD DOWN CLIPS ARE INCLUDED

GENERAL SPECIFICATIONS (@ 25°C)

NUMBER OF TERMINALS	UNITS	8, 14 or 20
ELECTRICAL RATING		
Nominal Voltage Rating:	Volts	300
Nominal Current Rating:	Amps	10
DIELECTRIC STRENGTH		
Output to Adjacent output Terminals:	V rms	1000
Output to Input Terminals:	V rms	1000
Terminals to Rail Chassis:	V rms	1000
CONSTRUCTION		
Protection Category (Finger Safe):	IEC	N / A
Internal Metal Tracks:		Copper Alloy, Zinc Plated
TEMPERATURE		
Operating, Lower:	°C	-40
Operating, Upper:	°C	+80
MISCELLANEOUS		
Chassis Mount Screw Torque:	Lb-in / Nm	N / A
Flammability Rating:		
Wire Size:	AWG/mm2	N / A
Body Color:		Black
Weight:	grams	4.3 - 6.9

Mating Relay

67

See section 1

Mating Hold Down Clips

(70-304-1) 16-875-1

(70-306-1) 16-875-2

(70-308-1) 16-875-3

(70-310-1) 16-1120-8

STANDARD PART NUMBER	DESCRIPTION
70 - 304 - 1	2 POLE PRINTED CIRCUIT TERMINALS
70 - 306 - 1	4 POLE PRINTED CIRCUIT TERMINALS
70 - 308 - 1	6 POLE PRINTED CIRCUIT TERMINALS
70 - 310 - 1	8 POLE PRINTED CIRCUIT TERMINALS

— FEATURES — — BENEFITS —

cUL **us**
UL Recognized
File No. E70550

**METAL OXIDE
VARISTOR CIRCUIT:**

METAL OXIDE VARISTORS PROTECTS BY
SHUNTING POTENTIALLY DAMAGING
ELECTRICAL SPIKES AWAY FROM THE RELAY COIL.
IDEAL FOR AC AND DC APPLICATIONS.

R / C CIRCUIT:

SNUBS BACK EMF OF RELAY COIL

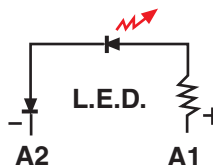
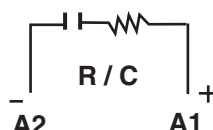
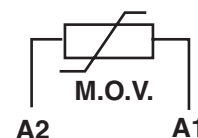
DIODE CIRCUIT:

PROTECTS EXTERNAL DRIVE CIRCUITRY FROM
INDUCTIVE VOLTAGES GENERATED WHEN
REMOVING COIL VOLTAGE. IDEAL FOR DC
APPLICATIONS. POLARITY SENSITIVE.

LED CIRCUIT:

LED STATUS LAMP VERIFIES POWER IS BEING
SUPPLIED TO THE COIL. IDEAL FOR BOTH AC
AND DC APPLICATIONS. POLARITY SENSITIVE
FOR DC APPLICATION.

WIRING DIAGRAM (VIEWED FROM PIN END)



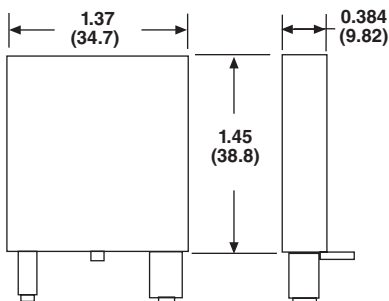
**MANUFACTURED
UNDER
ISO 9001**

PLUGGING MODULE INTO THE SOCKET, CONNECTS THE CIRCUIT IN
PARALLEL WITH THE RELAY COIL. NO ADDITIONAL WIRING REQUIRED.
MODULES FIT WITHIN MAXIMUM DIMENSIONS OF RELAY AND SOCKET.

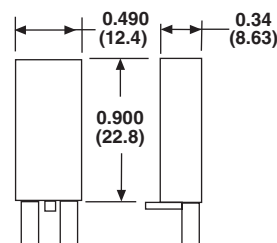
OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).
TOLERANCES : ± 0.010 (± 0.25) UNLESS OTHERWISE SHOWN

PACKAGE "A"



PACKAGE "B"



STANDARD PART NUMBERS	FUNCTION	NOMINAL INPUT VOLTAGE	PACKAGE STYLE	MATING SOCKETS
70-ASMM-24	MOV suppressor	24 VAC / VDC	A	70-783D-1
70-ASMM-120	MOV suppressor	120 VAC / VDC	A	70-784D-1
70-ASMM-240	MOV suppressor	240 VAC / VDC	A	70-750D8-1
70-ASMR-24	R / C suppressor	6 - 24 VAC / VDC	A	70-750D11-1
70-ASMR-240	R / C suppressor	110-240 VAC / VDC	A	70-750E8-1
70-ASMD-250	Protection diode	6 - 250 VDC	A	70-750E11-1
70-ASMLG-24	LED, green	24 VAC / VDC	A	70-750EL/SL8-1
70-ASMLG-120 / 240	LED, green	120/240 VAC / VDC	A	70-750EL/SL11-1
70-BSMM-24	MOV suppressor	24 VAC / VDC	B	70-782D-1
70-BSMM-120	MOV suppressor	120 VAC / VDC	B	
70-BSMM-240	MOV suppressor	240 VAC / VDC	B	
70-BSMD-250	Protection diode	6-250 VDC	B	
70-BSMLG-24	LED, green	24 VAC / VDC	B	
70-BSMLG-120 / 240	LED, green	120/240 VAC / VDC	B	

ORDERING CODE

70 - **A** **SM** **M** **-24**

MODULE FAMILY: _____

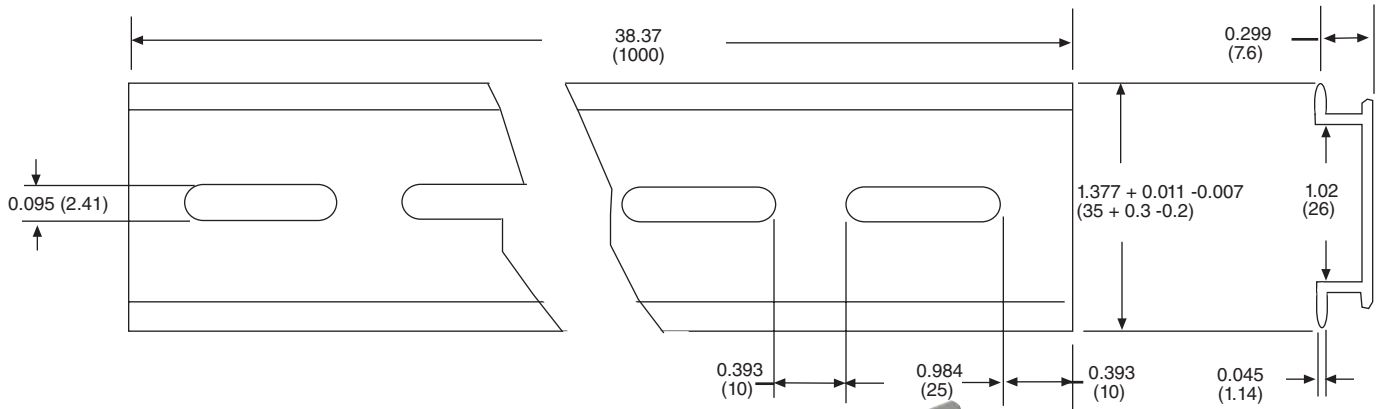
PACKAGE STYLE "A" OR "B": _____

SOCKET MODULE: _____

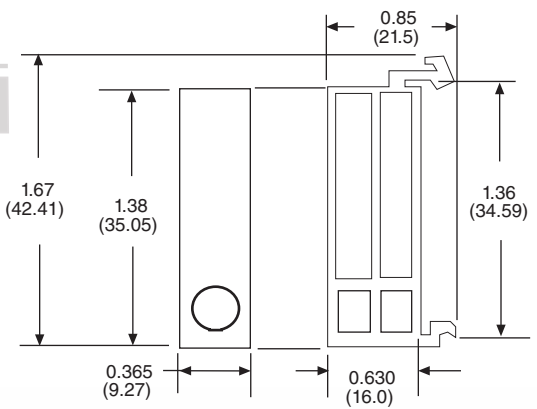
FUNCTION: _____
M = M.O.V (METAL OXIDE VARISTOR)
R = RESISTOR / CAPACITOR
D = DIODE
LG = L.E.D., GREEN

INPUT VOLTAGE: _____
24, 120, 240, 250

STANDARD 35 MILLIMETER WIDTH



DIN RAIL END CLIP



STANDARD PART NUMBER	DESCRIPTION	WEIGHT
16-700DIN	DIN RAIL EXTRUDED ALUMINUM, 39.37" (1000 mm)	125 Grams
16-DCLIP-1	END CLIP, PLASTIC, WITH LOCKING SCREW	4.5 Grams

CROSS REFERENCE GUIDE

MAGNECRAFT & STRUTHERS-DUNN	TYCO/POTTER & BRUMFIELD	IDEC	CUSTOM CONNECTOR	OMRON	FINDER	TYCO / SCHRACK	ALLEN- BRADLEY	OTHER
70-781D-1		SH1B-05						
70-461-1	27E894	SY4S-05	MT14-PC	PYF14A-E	94.44			
70-459-1	27E895	SH12B-05	GT08-PC	PTF08A-E		TM 78 700	700-HN116	GZY2 (RELPOL)
70-782D-1				PTF08A-E	96.72, 96.72.0		700-HN128	
70-783D-1		SH3B-05		PTF11A-E				
70-784D-1		SH4B-05		PTF14A-E	96.74, 96.74.0		700-HN139	
70-464-1	27E891/27E122	SR2P-06	OT06-PC	PF083A-E	90.16		700-HN125	
70-465-1	27E123 panel mount only	SR3P-06	OT11-PC	PF113A-E			700-HN126	
70-169-1								
70-170-1			RB08-PC					
70-750D8-1			RB11-PC					
70-750D11-1								
70-750E8-1					90.72.0	MT 78 745		
70-750E11-1					90.73.0	MT 78 740		PS11,PZ11 (RELPOL)
70-750EL8-1								
70-750EL11-1								
70-750SL11-1								
70-463-1	27E121/27E893 panel mount only	SR3B-05	ST11-PC		92.43.1		700-HN127	GUC11 (RELPOL)
70-788EL11-1					92.03.10			
70-788SL11-1								
27390D			SD12-PC Exept Din/panel mt					
33377D			SD14-PC Exept Din/panel mt					
70-781F-1		SH1B-51						
70-401-1	27E488	SH2B-51	GR108-SLD	PT08			700-HN117	
70-378-1	27E006	SY4S-51	MR14-SLD		94.24.0	RA 78 703	700-HN104	SU4L (RELPOL)
70-124-1	27E043	SR3B-51	CM11-SLD		92.33.0	RM 78 701	700-HN107	
70-124-2			CM11-QDC					
70-303-1	27E125					ZA 78 710		
70-305-1	27E126					ZA 78 720		
70-307-1	27E127					ZA 78 730		
70-309-1	27E211							
70-TRF6-1								S5406SB (MOLEX/BEAU) S2406SB, S406SB (CINCH/JONES)
70-TRF8-1								S5408SB (MOLEX/BEAU) S2408SB, S408SB (CINCH/JONES)
70-TRF12-1								S5412SB (MOLEX/BEAU) S2412SB, S412SB (CINCH/JONES)
70-TRB6-1								S5406AB (MOLEX/BEAU) S2406AB, S406AB (CINCH/JONES)
70-TRB8-1								S5408AB (MOLEX/BEAU) S2408AB, S408AB (CINCH/JONES)
70-TRB12-1								S5412AB (MOLEX/BEAU) S2412AB, S412AB (CINCH/JONES)

THE CROSS REFERENCE IS INTENDED TO MATCH FOOT PRINT, INTERNAL WIRING, AND CONTACT LOAD RATINGS.
CONSTRUCTION FEATURES AND GENERAL SPECIFICATIONS SHOULD BE COMPARED IF EXACT REPLACEMENT IS REQUIRED.

CROSS REFERENCE GUIDE

MAGNECRAFT & STRUTHERS-DUNN	TYCO/POTTER & BRUMFIELD	IDEC	CUSTOM CONNECTOR	OMRON	FINDER	TYCO / SCHRACK	ALLEN-BRADLEY	OTHER
770-781T-1		SH1B-62						
70-402-1	27E489	SH2B-62	GR108-PCB	PT08-0	96.12, 96.12.0		700-HN118	
70-379-1	27E023	SY4S-61	MR14-PCB	PY14-02	94.14.0	RA 78 702	700-HN105	SU4D (RELPOL) S4-P (RELECO)
70-178-1	27E305		CM11-PCB	PY14		RM 78 702		
70-178-2			CM11-PCB-1S		92.13.0			SP-5 (RELECO)
70-304-1	27E128					ZA 78 712		
70-306-1	27E129					ZA 78 722		
70-308-1	27E130					ZA 78 732		
70-310-1	27E254							
0-ASMM-24							700-HSV1	
70-ASMM-120							700-HSV3	
70-ASMM-240							700-HSV2	
70-ASMR-24						MTM U0 524		
70-ASMR-240						MTM U0 730		
70-ASMD-250						MTM TO 0A0	700-HSMD	
70-ASMLG-24						MTM G0 024		
70-ASMLG-120/240						MTM G0 730		
70-BSMM-24						RPM U0 024		M71 (RELPOL)
70-BSMM-120								M72 (RELPOL)
70-BSMM-240								M73 (RELPOL)
70-BSMD-250			TYPE-22		99.80.3.000.00.0	PRM TO 0A0		M21N (RELPOL)
70-BSMLG-24			TYPE-62V		99.80.0.024.59.0	PRM G0 524		M61G (RELPOL)
70-BSMLG-120/240			TYPE-92V		99.80.0.230.59.0	PRM G0 730		M63G (RELPOL)
16-700DIN		BND-1000		PFP-100N				
16-DCLIP		BNL-5		PFP-M	62.1			

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THE CROSS REFERENCE IS INTENDED TO MATCH FOOT PRINT, INTERNAL WIRING, AND CONTACT LOAD RATINGS.
CONSTRUCTION FEATURES AND GENERAL SPECIFICATIONS SHOULD BE COMPARED IF EXACT REPLACEMENT IS REQUIRED.