



UL 1686

STANDARD FOR SAFETY

Pin and Sleeve Configurations

UL Standard for Safety for Pin and Sleeve Configurations, UL 1686

Fifth Edition, Dated September 5, 2023

Summary of Topics

This Fifth new of ANSI/UL 1686 dated September 5, 2023 is being issued as a first time Trinational Standard with ANCE and CSA.

The requirements are substantially in accordance with Proposal(s) on this subject dated January 13, 2023 and April 28, 2023.

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NMX-J-864-ANCE-2023
First Edition



CSA Group
CSA C22.2 No. 182.6:23
First Edition



ULSE Inc.
UL 1686
Fifth Edition

Pin and Sleeve Configurations

September 5, 2023



ANSI/UL 1686-2023



Documents

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This ANSI/UL Standard for Safety consists of the First Edition. The most recent designation of ANSI/UL 1686 as an American National Standard (ANSI) occurred on September 5, 2023. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page (front and back), or the Preface.

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Preface

This is the harmonized ANCE, CSA Group, and ULSE standard for Pin and Sleeve Configurations. It is the first edition of NMX-J-864-ANCE, the first edition of CSA C22.2 No. 182.6, and the fifth edition of UL 1686. This edition of UL 1686 supersedes the previous edition published August 17, 2012.

This harmonized standard was prepared by the Association of Standardization and Certification (ANCE), CSA Group, and ULSE. The efforts and support of the Technical Harmonization Subcommittee 23H under CANENA on the Harmonization of Electrotechnical Standards of the Nations of the Americas (CANENA), are gratefully acknowledged.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

The present Mexican standard was developed by the CT 23 Electrical Accessories (Wiring Devices) from the Comité de Normalización de la Asociación de Normalización y Certificación, A.C., CONANCE, with the collaboration of the electrical manufacturers and users.

This standard was reviewed by the CSA Integrated Committee on Wiring Devices, under the jurisdiction of the CSA Technical Committee on Wiring Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety (SCORES), and has been formally approved by the CSA Technical Committee. This standard has been developed in compliance with the Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

Application of Standard

Where reference is made to a specific number of samples to be tested, the specified number is to be considered a minimum quantity.

Note: Although the intended primary application of this standard is stated in its scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

Level of harmonization

This standard is published as an equivalent standard for ANCE, CSA Group, and ULSE.

An equivalent standard is a standard that is substantially the same in technical content, except as follows: Technical national differences are allowed for codes and governmental regulations as well as those recognized as being in accordance with NAFTA Article 905, for example, because of fundamental climatic, geographical, technological, or infrastructural factors, scientific justification, or the level of protection that the country considers appropriate. Presentation is word for word except for editorial changes.

Interpretations

The interpretation by the standards development organization of an identical or equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules of the standards development organization. If more than one interpretation of the literal text has been identified, a revision is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

No Text on This Page

INTRODUCTION

1 Scope

1.1 These configurations cover attachment plugs, receptacles, and cord connectors, for use in accordance with the National Electrical Code (NEC), NFPA 70 and CSA C22.1, Canadian Electrical Code, Part I (CE Code).

1.2 These configurations do not cover devices rated at more than 800 A or for more than 600 V.

2 Referenced Publications

2.1 Any undated reference to a code or standard appearing in the requirements of this Standard shall be interpreted as referring to the latest edition of that code or standard.

2.2 The following standards are referenced in this Standard, and portions of these referenced standards may be essential for compliance.

CSA C22.1, *Canadian Electrical Code (CE Code)*

IEC 60309-2, *Plugs, Fixed or Portable Socket-Outlets and Appliance Inlets for Industrial Purposes – Part 2: Dimensional Compatibility Requirements for Pin and Contact-Tube Accessories*

NFPA 70, *National Electrical Code*

3 Units of Measurement

3.1 The values given in SI (metric) units shall be normative. Any other values given shall be for information purposes only.

4 General

4.1 The information given in (a) – (h) applies to each configuration in Sections [C1](#) – [C5](#).

a) All dimensions are in inches. Metric values were derived by converting from English imperial units given in Annex [A](#). If reference dimensions are needed, the metric dimensions shall be considered extended to be 3 decimal places from the Imperial units given in Annex [A](#).

b) Decimal dimensions without tolerances shall be subject to a 0.0127 cm (± 0.005 inch) tolerance. When metric values are used, they have been derived by converting from imperial units given in this standard. If a referee dimension is needed, the metric dimension shall be extended to 3 decimal places.

c) Angular dimensions without tolerances shall be subject to a $\pm 1/2$ degree tolerance.

d) Where two values are given for the same dimension, the larger is the maximum value and the smaller the minimum value.

e) Leading edges of pins and sleeves shall be free of burrs and sharp edges.

f) A contour, face dimension, yoke construction, or mounting ears and dimensions for any receptacle construction that is shown depicts an acceptable construction; other constructions may also be acceptable if tested and found to be equivalent.

g) The relationship of recessing of contacts, or internal construction in a receptacle that is shown depicts an acceptable construction; other constructions may also be acceptable if tested and found to be equivalent.

h) Terminal identification shall comply with the following:

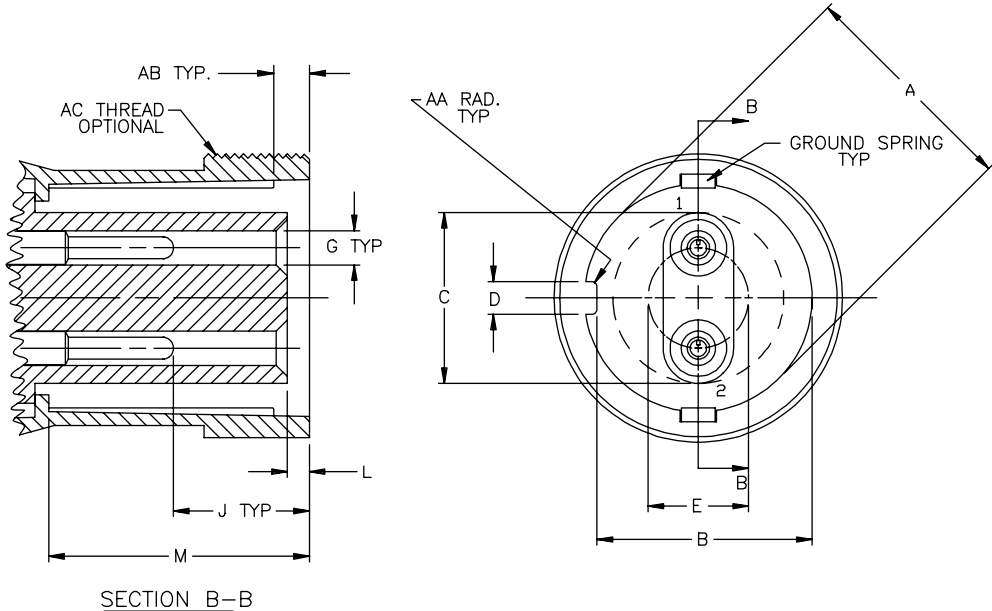
- 1) The grounded terminal shall be identified in the Figures by the letter "W".
- 2) The grounding terminal shall be identified in the Figures by the letter "G".

CONFIGURATIONS

C1 Configurations

1. Q is the allowable distance measured from the male contact tip to a plane perpendicular to the longitudinal axis where initial electrical engagement with the sleeve contact takes place.
2. The design of the pins shall provide a means of maintaining electrical contact force to their respective sleeve contacts.
3. The design of the ground springs shall provide a means of maintaining electrical contact with the plug sleeve when the plug is mated with the receptacle.
4. Connectors shall be rated for use in ordinary locations only.
5. Receptacles may be rated for use in Hazardous Locations.
6. Plugs shall be rated for use in Hazardous Locations.
7. Inlets shall be rated for use in ordinary locations only.

Figure C1.1
Receptacle and Connectors



END OF PIN CONTACTS

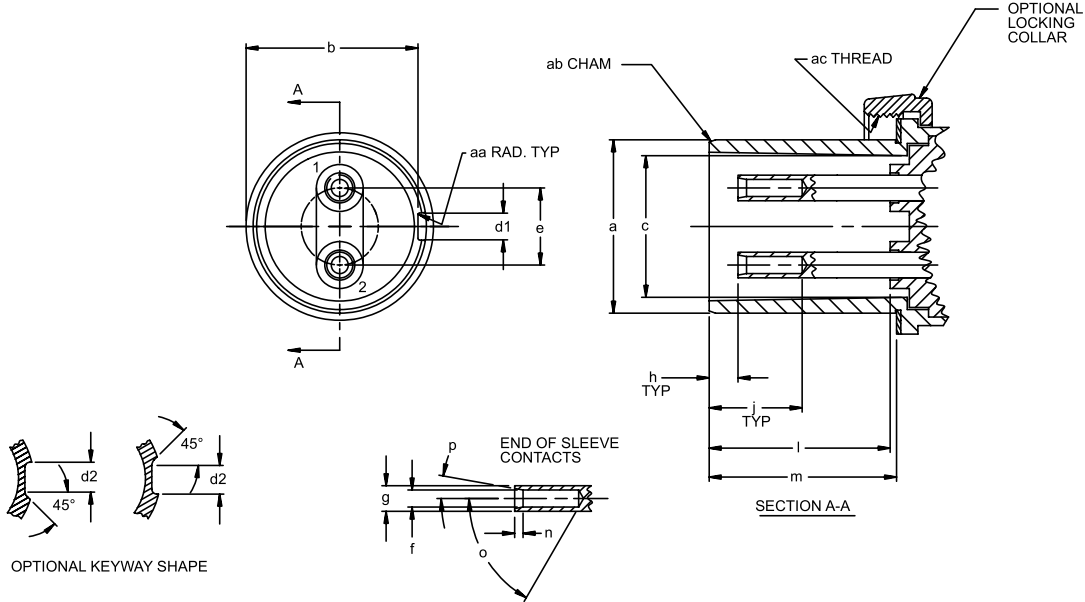
STYLE	TYPE	AMP RATING	A (ø)	B	C (ø)	D	E (ø)	G (ø)	J	L	M	Q	AA	AB	AC
1	2P	30	1.929 1.865	1.818 1.750	1.440 1.145	.198 .148	.568 .557	.266 .258	1.115 1.005	.275 .225	1.734 MIN	.120 .080	.104 .026	.750 .250	2 9/16-14 UNS-2B
1	2P	60	2.359 2.240	2.219 2.116	1.600 1.515	.385 .314	.855 .830	.392 .381	1.609 1.465	.359 .214	2.891 MIN	.140 .100	.130 .045	1.500 .250	2 15/16-14 UNS-2B
1	2P	100	2.606 2.490	2.451 2.368	2.015 1.875	.382 .300	1.036 1.025	.485 .447	1.995 1.907	.300 .205	3.547 MIN	.175 .135	.130 .045	1.500 .250	3 3/16-14 UNS-2B

SM802

F, H, I, K, N-P, R-Z NOT USED

See note 1, 2, 3, 4 and 5.

Figure C1.2
Plugs and Inlets



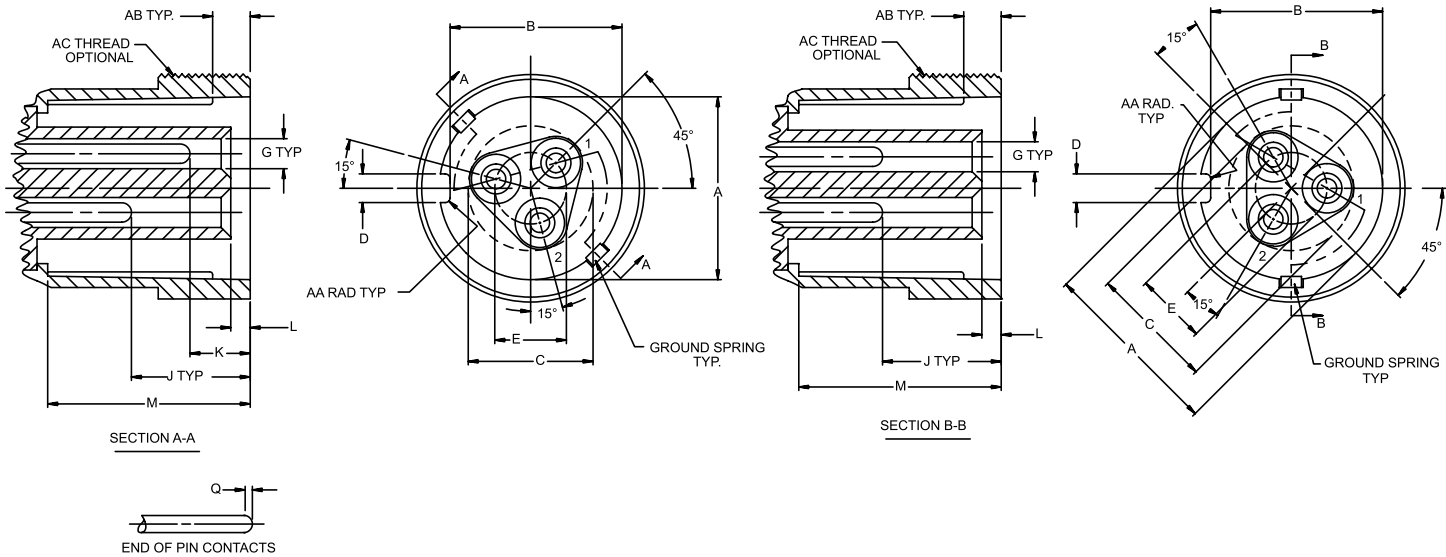
STYLE	TYPE	AMP RATING	a (Ø)	b	c (Ø)	d1	d2	e (Ø)	f (Ø)	g (Ø)	h	j	l	m	n	o	p	aa	ab	ac
1	2P	30	1.865 1.848	1.770 1.745	1.540 1.460	.220 .199	.205 .195	.568 .557	.191 .186	.253 .247	.095 .005	.922 .640	1.435 MIN	1.655 1.621	.021 .000	60.5° 58.5°	45.5° 0.0°	.107 .011	.05 X 20° .10 X 40°	2 9/16-14 UNS-2B
1	2P	60	2.239 2.220	2.114 2.079	1.890 1.670	.400 .385	.360 .340	.855 .830	.253 .249	.378 .365	.530 .383	1.415 1.300	2.615 MIN	2.765 2.672	.130 .058	60.5° 58.5°	15.5° 8.0°	.100 .020	.05 X 20° .10 X 40°	2 15/16-14 UNS-2B
1	2P	100	2.485 2.460	2.365 2.338	2.110 2.030	.420 .385	.360 .340	1.036 1.025	.315 .311	.442 .432	.495 .395	1.612 1.512	3.305 MIN	3.485 3.422	.161 .058	60.5° 58.5°	13.5° 8.0°	.110 .026	.05 X 20° .10 X 40°	3 3/16-14 UNS-2B

SM803

i, k, q-z NOT USED

See notes 6 and 7.

Figure C1.3
Receptacles and Connectors



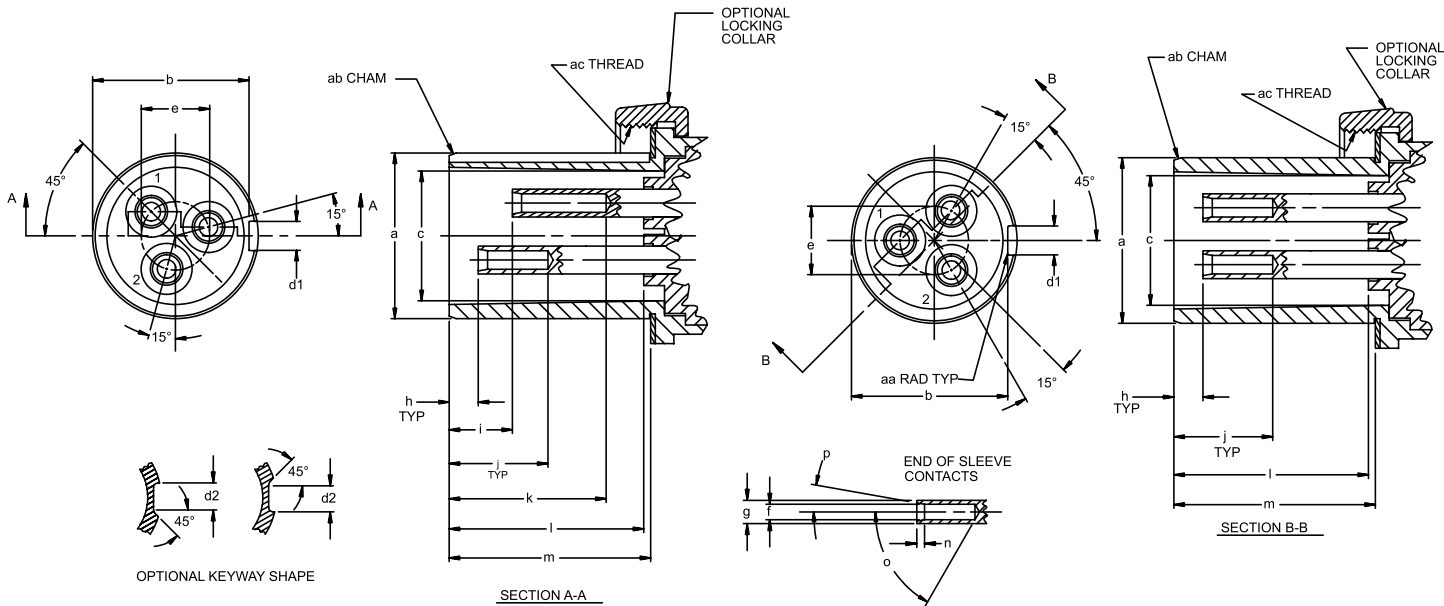
STYLE	TYPE	AMP RATING	A (Ø)	B	C (Ø)	D	E (Ø)	G (Ø)	J	K	L	M	Q	AA	AB	AC
1	3P	30	1.929 1.865	1.818 1.750	1.440 1.145	.198 .148	.760 .740	.266 .258	1.115 1.005	—	.275 .225	1.734 MIN	.120 .080	.104 .026	.750 .250	2 9/16-14 UNS-2B
2	2P+G	30	1.929 1.865	1.818 1.750	1.440 1.145	.198 .148	.760 .740	.266 .258	1.115 1.005	.375 .280	.275 .225	1.734 MIN	.120 .080	.104 .026	.750 .250	2 9/16-14 UNS-2B
1	3P	100	2.606 2.490	2.451 2.368	2.015 1.875	.382 .300	1.044 1.022	.485 .447	1.995 1.907	—	.300 .205	3.547 MIN	.175 .135	.130 .045	1.500 .250	3 3/16-14 UNS-2B
2	2P+G	100	2.606 2.490	2.451 2.368	2.015 1.875	.382 .300	1.044 1.022	.485 .447	1.995 1.907	1.100 .875	.300 .205	3.547 MIN	.175 .135	.130 .045	1.500 .250	3 3/16-14 UNS-2B

F, H, I, N-P, R-Z NOT USED

SM804

See notes 1, 2, 3, 4 and 5.

Figure C1.4
Plugs and inlets



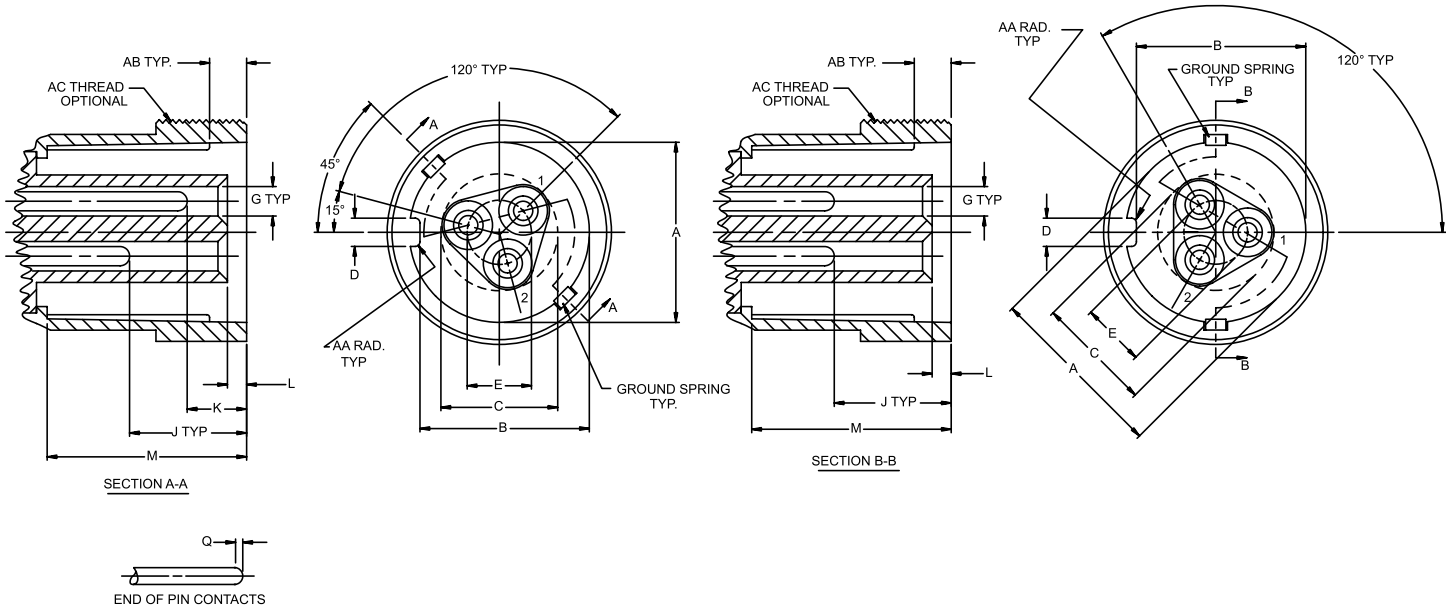
STYLE	TYPE	AMP RATING	a (Ø)	b	c (Ø)	d1	d2	e (Ø)	f (Ø)	g (Ø)	h	i	j	k	l	m	n	o	p	aa	ab	ac
1	3P	30	1.865 1.848	1.770 1.745	1.540 1.460	.220 .199	.205 .195	.760 .740	.191 .186	.253 .247	.095 .005	— .640	.922 —	— 1.590	1.435 MIN	1.655 1.621	.021 .000	60.5° 58.5°	45.5° 0.0°	.107 .011	.05 X 20° .10 X 40°	2 9/16-14 UNS-2B
2	2P+G	30	1.865 1.848	1.770 1.745	1.540 1.460	.220 .199	.205 .195	.760 .740	.191 .186	.253 .247	.095 .005	.445 .355	.922 .640	1.590 1.435	1.435 MIN	1.655 1.621	.021 .000	60.5° 58.5°	45.5° 0.0°	.107 .011	.05 X 20° .10 X 40°	2 9/16-14 UNS-2B
1	3P	100	2.485 2.460	2.365 2.338	2.110 2.030	.420 .385	.360 .340	1.044 1.022	.315 .311	.442 .432	.495 .395	— 1.612 1.512	1.612 —	2.976 —	3.305 MIN	3.485 3.422	.161 .058	60.5° 58.5°	13.5° 8.0°	.110 .026	.05 X 20° .10 X 40°	3 3/16-14 UNS-2B
2	2P+G	100	2.485 2.460	2.365 2.338	2.110 2.030	.420 .385	.360 .340	1.044 1.022	.315 .311	.442 .432	.495 .395	.985 .873	1.612 1.512	2.976 2.545	3.305 MIN	3.485 3.422	.161 .058	60.5° 58.5°	13.5° 8.0°	.110 .026	.05 X 20° .10 X 40°	3 3/16-14 UNS-2B

q-z NOT USED

SM805

See notes 6 and 7.

Figure C1.5
Receptacles and Connectors



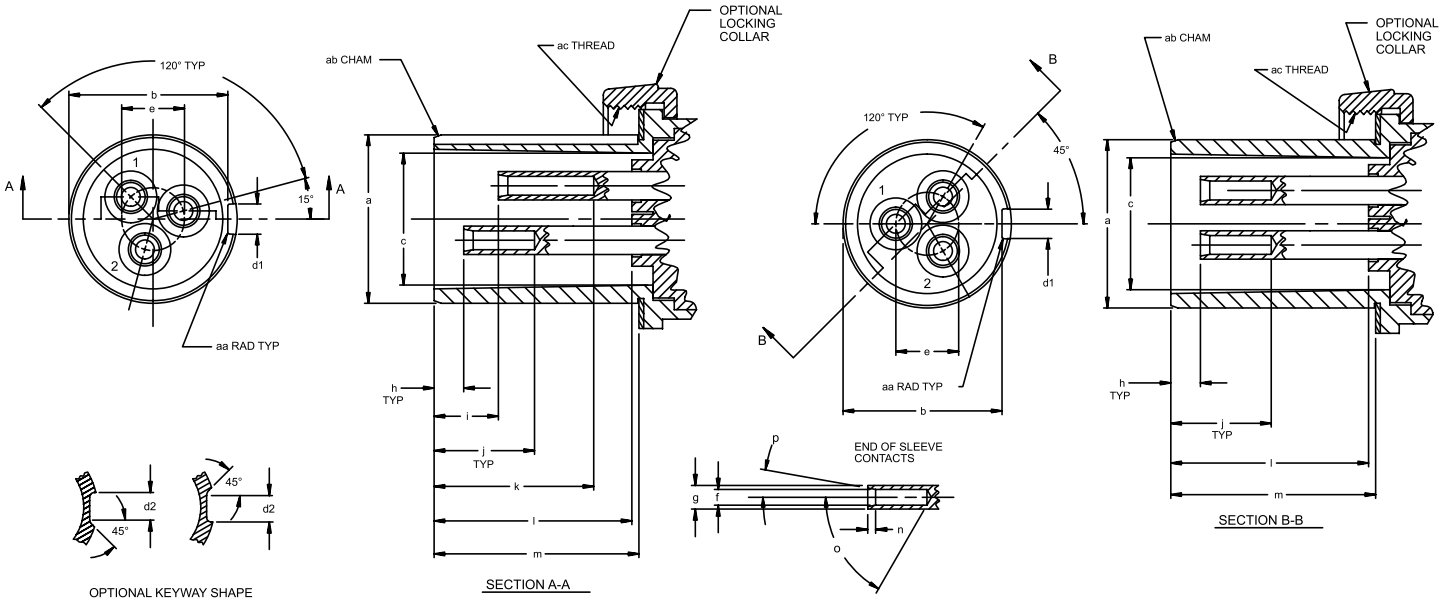
STYLE	TYPE	AMP RATING	A (Ø)	B	C (Ø)	D	E (Ø)	G (Ø)	J	K	L	M	Q	AA	AB	AC
1	3P	60	2.359 2.240	2.219 2.116	1.600 1.515	.385 .314	.886 .866	.392 .381	1.609 1.465	—	.359 .214	2.891 MIN	.100 .140	.130 .045	1.500 .250	2 15/16-14 UNS-2B
2	2P + G	60	2.359 2.240	2.219 2.116	1.600 1.515	.385 .314	.886 .866	.392 .381	1.609 1.465	.859 .755	.359 .214	2.891 MIN	.100 .140	.130 .045	1.500 .250	2 15/16-14 UNS-2B

SM806

F, H, I, N-P, R-Z NOT USED

See notes 1, 2, 3, 4 and 5.

Figure C1.6
Plugs and Inlets



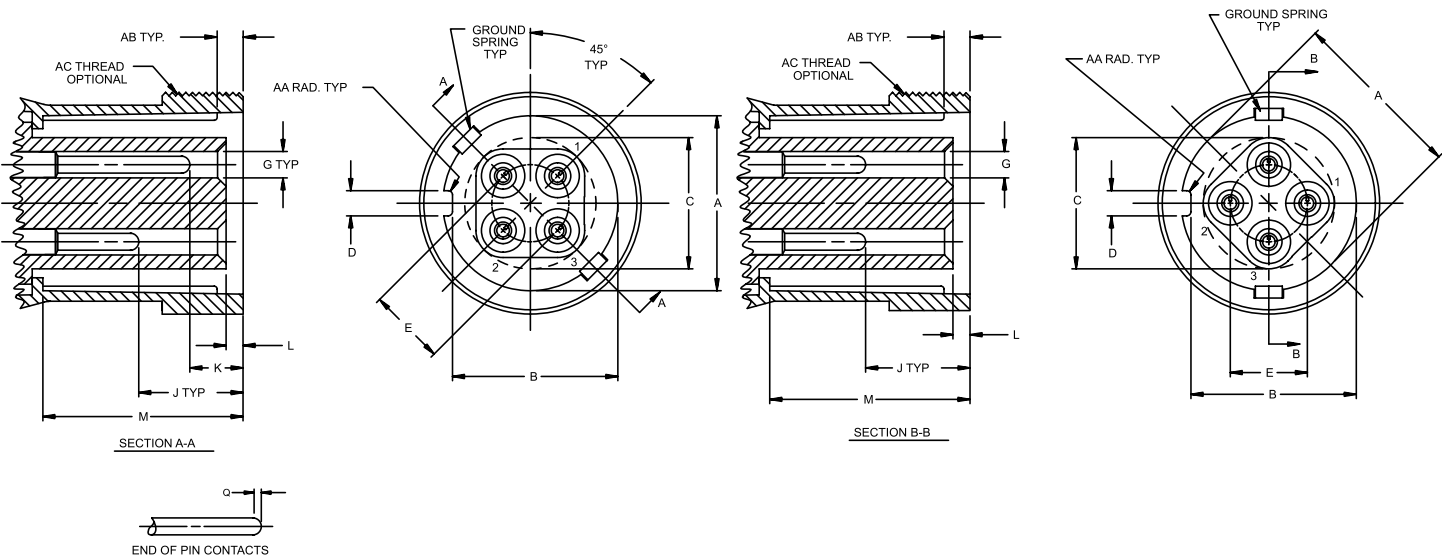
STYLE	TYPE	AMP RATING	a (Ø)	b	c (Ø)	d1	d2	e (Ø)	f (Ø)	g (Ø)	h	i	j	k	l	m	n	o	p	aa	ab	ac
1	3P	60	2.239 2.220	2.114 2.079	1.890 1.670	.400 .385	.360 .340	.886 .866	.253 .249	.378 .365	.530 .383	—	1.415 1.300	—	2.615 MIN	2.765 2.672	.130 .058	60.5° 58.5°	15.5° 8.0°	.100 .020	.05 X 20° .10 X 40°	2 15/16-14 UNS-2B
2	2P+G	60	2.239 2.220	2.114 2.079	1.890 1.670	.400 .385	.360 .340	.886 .866	.253 .249	.378 .365	.530 .383	.977 .843	1.415 1.300	2.276 2.050	2.615 MIN	2.765 2.672	.130 .058	60.5° 58.5°	15.5° 8.0°	.100 .020	.05 X 20° .10 X 40°	2 15/16-14 UNS-2B

SM807A

q-z NOT USED

See notes 6 and 7.

Figure C1.7



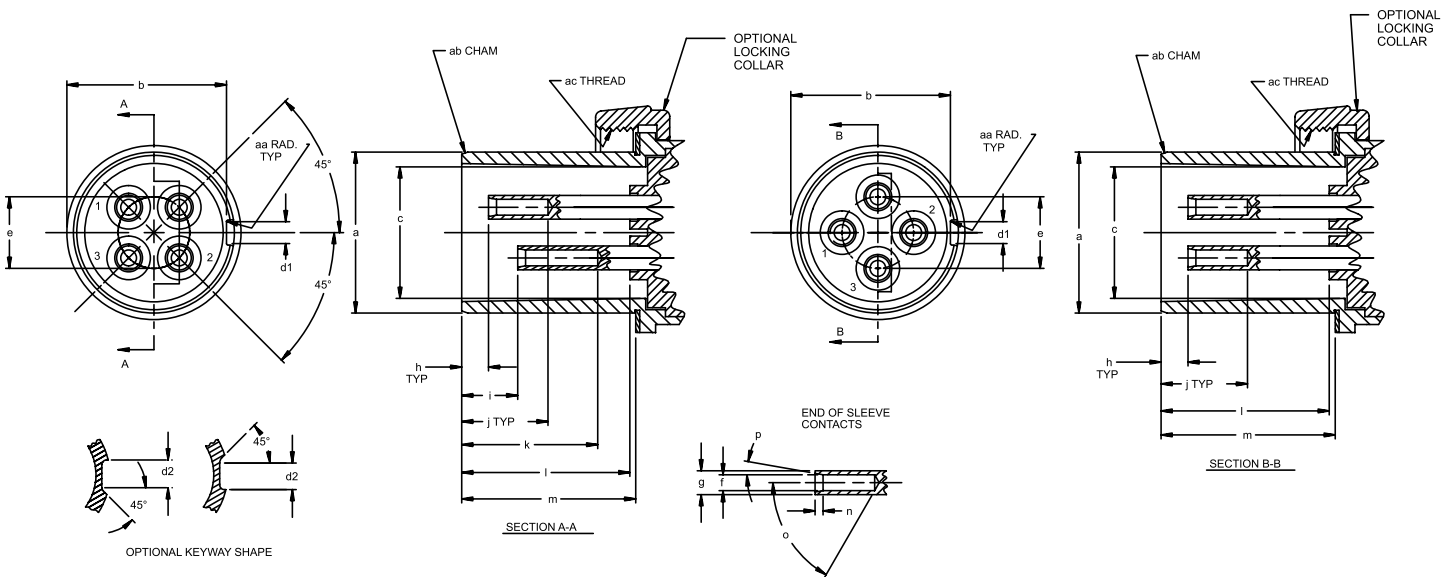
STYLE	TYPE	AMP RATING	A (Ø)	B	C (Ø)	D	E (Ø)	G (Ø)	J	K	L	M	Q	AA	AB	AC
1	4P	30	1.929 1.865	1.818 1.750	1.440 1.145	.198 .148	.755 .745	.266 .258	1.115 1.005	—— ——	.275 .225	1.734 MIN	.120 .080	.104 .026	.750 .250	2 9/16-14 UNS-2B
2	3P + G	30	1.929 1.865	1.818 1.750	1.440 1.145	.198 .148	.755 .745	.266 .258	1.115 1.005	.375 .280	.275 .225	1.734 MIN	.120 .080	.104 .026	.750 .250	2 9/16-14 UNS-2B
1	4P	60	2.643 2.560	2.505 2.425	1.976 1.854	.385 .314	1.136 1.120	.392 .381	1.609 1.465	—— ——	.359 .214	2.891 MIN	.140 .100	.130 .045	1.500 .250	3 1/4-14 UNS-2B
2	3P + G	60	2.643 2.560	2.505 2.425	1.976 1.854	.385 .314	1.136 1.120	.392 .381	1.609 1.465	.859 .755	.359 .214	2.891 MIN	.140 .100	.130 .045	1.500 .250	3 1/4-14 UNS-2B

SM808A

F, H, I, N-P, R-Z NOT USED

See notes 1, 2, 3, 4 and 5.

Figure C1.8
Plugs and Inlets



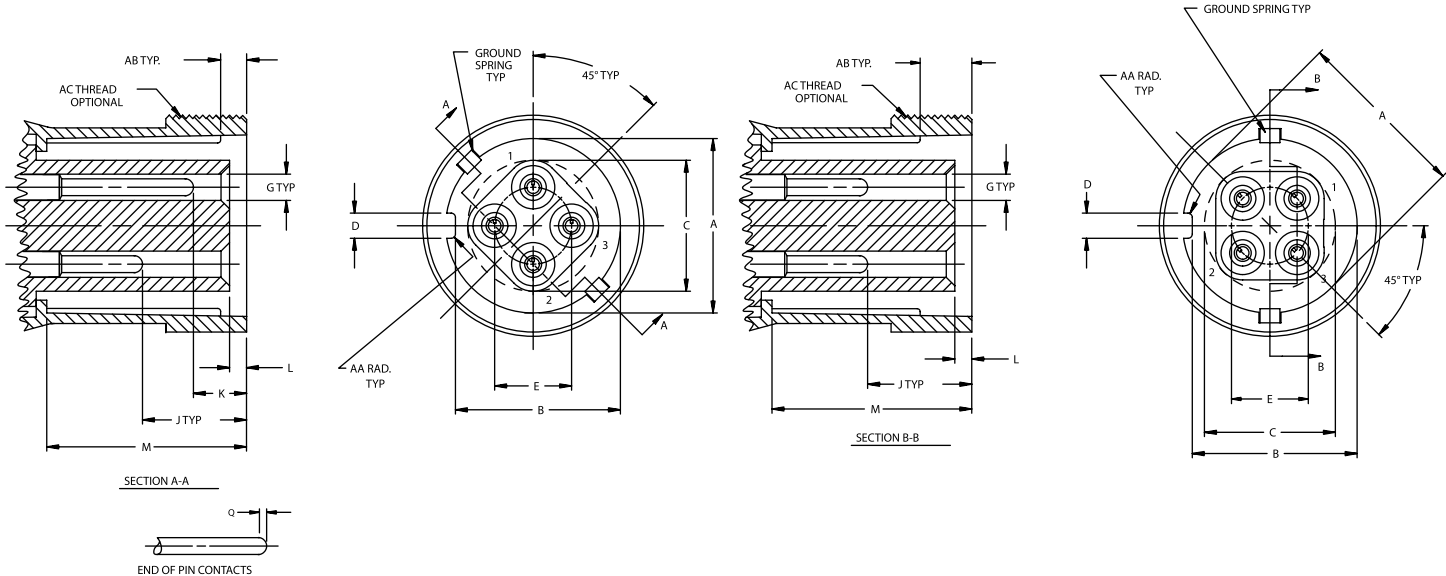
STYLE	TYPE	AMP RATING	a (Ø)	b	c (Ø)	d1	d2	e (Ø)	f (Ø)	g (Ø)	h	i	j	k	l	m	n	o	p	aa	ab	ac
1	4P	30	1.865 1.848	1.770 1.745	1.540 1.460	.220 .199	.205 .195	.755 .745	.191 .186	.253 .247	.095 .005	—	.922 .640	—	1.435 MIN	1.655 1.621	.021 .000	60.5° 58.5°	45.5° 0.0°	.107 .011	.05 X 20° .10 X 40°	2 9/16-14 UNS-2B
2	3P + G	30	1.865 1.848	1.770 1.745	1.540 1.460	.220 .199	.205 .195	.755 .745	.191 .186	.253 .247	.095 .005	.445 .355	.922 .640	1.590 1.435	1.435 MIN	1.655 1.621	.021 .000	60.5° 58.5°	45.5° 0.0°	.107 .011	.05 X 20° .10 X 40°	2 9/16-14 UNS-2B
1	4P	60	2.552 2.510	2.423 2.400	2.172 1.982	.420 .385	.360 .340	1.136 1.120	.253 .249	.378 .365	.530 .383	—	1.415 1.300	—	2.615 MIN	2.765 2.672	.130 .058	60.5° 58.5°	15.5° 8.0°	.100 .020	.05 X 20° .10 X 40°	3 1/4-14 UNS-2B
2	3P + G	60	2.552 2.510	2.423 2.400	2.172 1.982	.420 .385	.360 .340	1.136 1.120	.253 .249	.378 .365	.530 .383	.977 .843	1.415 1.300	2.276 2.050	2.615 MIN	2.765 2.672	.130 .058	60.5° 58.5°	15.5° 8.0°	.100 .020	.05 X 20° .10 X 40°	3 1/4-14 UNS-2B

SM809A

q-z NOT USED.

See notes 6 and 7.

Figure C1.9
Receptacles and Connectors



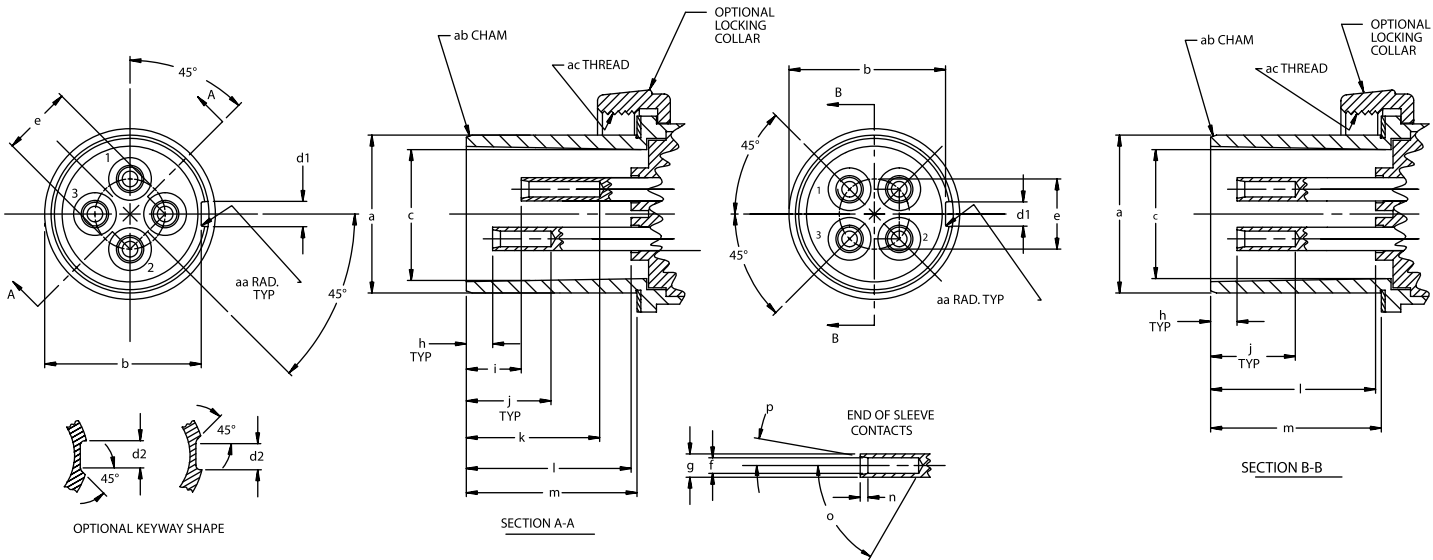
STYLE	TYPE	AMP RATING	A (Ø)	B	C (Ø)	D	E (Ø)	G (Ø)	J	K	L	M	Q	AA	AB	AC
1	4P	100	2.849 2.740	2.700 2.618	2.230 2.155	.382 .320	1.255 1.245	.485 .447	1.995 1.907	—	.300 .205	3.547 MIN	.175 .135	.130 .045	1.500 .250	3 7/16-14 UNS-2B
2	3P + G	100	2.849 2.740	2.700 2.618	2.230 2.155	.382 .320	1.255 1.245	.485 .447	1.995 1.907	1.100 .875	.300 .205	3.547 MIN	.175 .135	.130 .045	1.500 .250	3 7/16-14 UNS-2B

F, H, I, N-P, R-Z NOT USED

SM810A

See notes 1, 2, 3, 4 and 5.

Figure C1.10
Plugs and Inlets



STYLE	TYPE	AMP RATING	a (Ø)	b	c (Ø)	d1	d2	e (Ø)	f (Ø)	g (Ø)	h	i	j	k	l	m	n	o	p	aa	ab	ac
1	4P	100	2.735 2.713	2.615 2.584	2.359 2.257	.420 .385	.360 .340	1.255 1.245	.315 .311	.442 .432	.495 .395	—	1.612 1.512	—	3.305 MIN	3.485 3.422	.161 .058	60.5° 58.5°	13.5° 8.0°	.110 .026	.05 X 20° .10 X 40°	3 7/16-14 UNS-2B
2	3P+G	100	2.735 2.713	2.615 2.584	2.359 2.257	.420 .385	.360 .340	1.255 1.245	.315 .311	.442 .432	.495 .395	.985 .873	1.612 1.512	2.976 2.545	3.305 MIN	3.485 3.422	.161 .058	60.5° 58.5°	13.5° 8.0°	.110 .026	.05 X 20° .10 X 40°	3 7/16-14 UNS-2B

SM811

q-z NOT USED

See note 6 and 7.

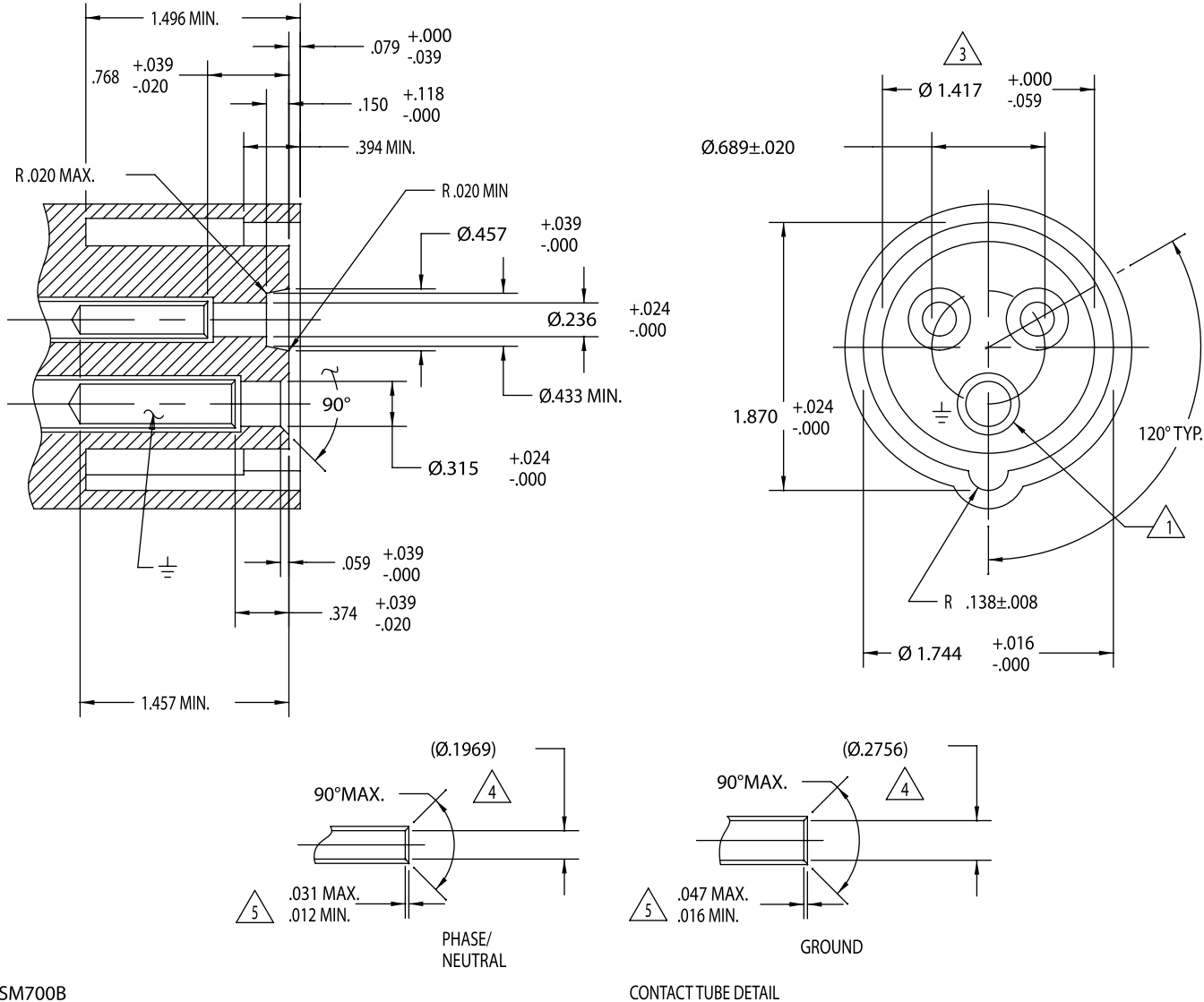
C2 Configurations

C2.1 [Figure C2.1](#) – [Figure C2.38](#) illustrate the configurations for plugs and inlets and for receptacles and connectors of single-rated Pin and Sleeve devices of the IEC 60309-2 type, Series II. The dimensions shown define the features which enable proper mating and mating of devices only with the same service, voltage, and amperage. The plug (or inlet) shroud shall have an external key which mates with a keyway in the receptacle (or connector) cavity. The key/keyway is shown at the bottom of each configuration. The ground contact is located from this point in 30° increments to provide discrete and predetermined contact patterns. The position of the female ground contact, when viewed with the keyway at the 6 o'clock position, is referred to as the "clock" position. There is a designated clock position for each voltage and service.

These drawings do not show locking, sealing cord grip, or envelope clearance dimensions. Additionally, the following shall apply:

- a) The main view is shown with the grounding tube or pin at the 6 o'clock position for reference only. See the rating configuration for the required positions.
- b) Holes or recesses in the frontal face, if any, other than those for contact tubes, shall not have a depth of more than 10 mm (0.394 inch).
- c) The dimension described in (b) shall not exceed the specified limit at any point over the entire depth, and shall be within the specified limits over a minimum depth of 6 mm (0.236 inch) with the exception of a maximum of:
 - 1) three cut-outs for receptacles or outlets provided with 2 poles plus ground,
 - 2) four cut-outs for receptacles or outlets provided with three poles plus ground, or
 - 3) five cut-outs for devices provided with three poles plus neutral plus ground, spaced around the circumference.
 - 4) There shall not be more than one cut-out between adjacent holes for the contact tubes and each shall not have a width exceeding 15 mm (0.590 inch) including any radii. Holes deeper than 1 mm (0.394 inch) in the area are allowed,
- d) Pin detail dimensions refer to pin diameters. The contact tubes provide contact pressure and need not be cylindrical.
- e) The bevelling of the contact tubes may be rounded off toward the internal cylindrical surface within a distance of 1-1/2 times the maximum dimension.
- f) Collars shall be provided for plugs or inlet devices having rated operating voltages exceeding 500 V.
- g) The ends of pins may be rounded off toward the external cylindrical surface within a distance of 1-1/2 times the maximum dimension.
- h) "" denotes the equipment ground contact. The terminal shall be identified by the word "green", the color green, or both. The terminal may additionally be marked with the earth symbol ("").
- i) N denotes the grounded line conductor contact. The terminal shall be identified by the word "white", the color white, or both. The terminal may additionally be marked with the letter "N".

Figure C2.1
Receptacle or Connector
20 Ampere, 3 Wire Without Pilot



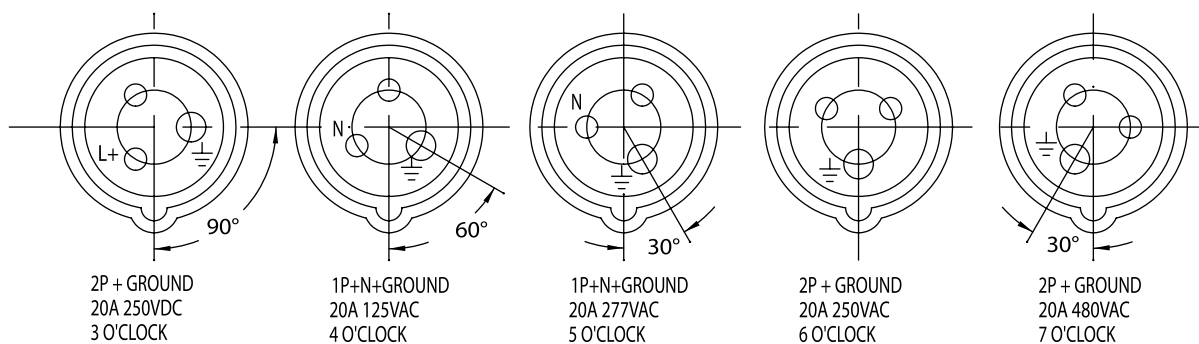
SM700B

(Continued)

Figure C2.1 (cont.)

1. MAIN VIEW SHOWN WITH GROUND AT 6 O'CLOCK POSITION FOR REFERENCE ONLY. SEE RATING CONFIGURATION FOR RELEVANT POSITIONS.
2. HOLES OR RECESSES IN THE FRONTAL FACE, IF ANY, OTHER THAN THOSE FOR CONTACT TUBES, SHALL HAVE A DEPTH OF NOT MORE THAN .394 INCHES. (EXCEPTION: SEE NOTE 3)
3. THIS DIMENSION SHALL NOT EXCEED THE PRESCRIBED LIMIT AT ANY POINT OVER THE WHOLE DEPTH, AND SHALL BE WITHIN THE PRESCRIBED LIMITS OVER A MINIMUM DEPTH OF .236 INCHES WITH THE EXCEPTION OF A MAXIMUM OF 3 CUT-OUTS SPACED AROUND THE CIRCUMFERENCE WITH NOT MORE THAN ONE CUT-OUT BETWEEN ADJACENT HOLES FOR THE CONTACT TUBES AND EACH HAVING A WIDTH NOT EXCEEDING .590 INCHES INCLUDING ANY RADII. HOLES DEEPER THAN .394 INCHES IN THE AREA ARE ALLOWED.
4. DIMENSIONS REFER TO PIN DIAMETERS; THE CONTACTS TUBES NEED NOT BE CIRCULAR.
5. THE BEVELLING OF THE CONTACTS TUBES MAY BE ROUNDED OFF TOWARDS THE INTERNAL CYLINDRICAL SURFACE WITHIN A DISTANCE OF 1-1/2 TIMES THE MAXIMUM DIMENSION.
6. $\perp$ DENOTES EQUIPMENT GROUND CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "GREEN" AND/OR COLOR GREEN. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY EARTH SYMBOL ($\perp$).
7. N DENOTES GROUNDED LINE CONDUCTOR CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "WHITE" AND/OR COLOR WHITE. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY THE LETTER "N".

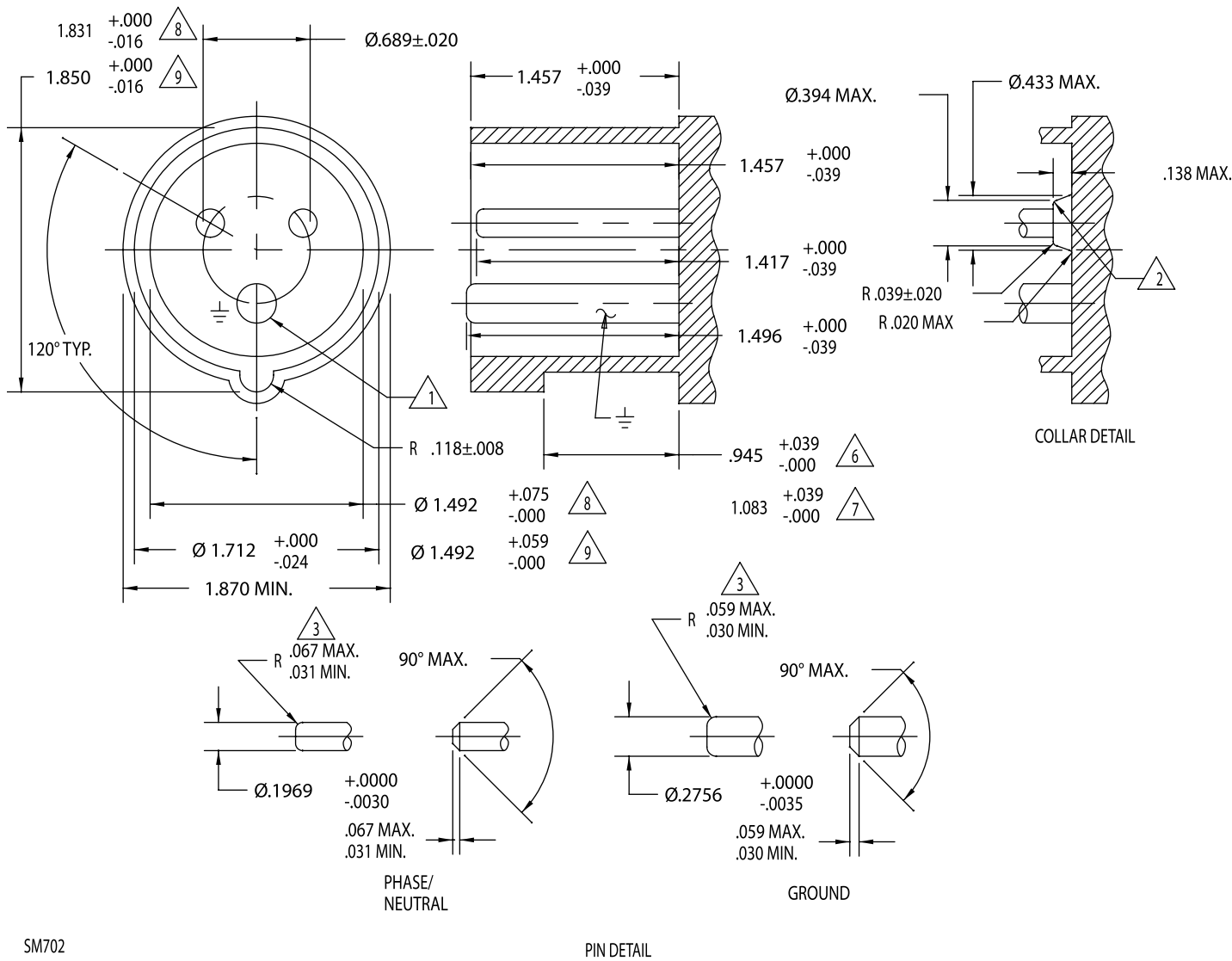
RATING CONFIGURATIONS
FRONT VIEW - RECEPTACLE OR CONNECTOR



SM701A

Figure C2.2
Plug or Inlet
20 Ampere, 3 Wire Without Pilot

(Continued)



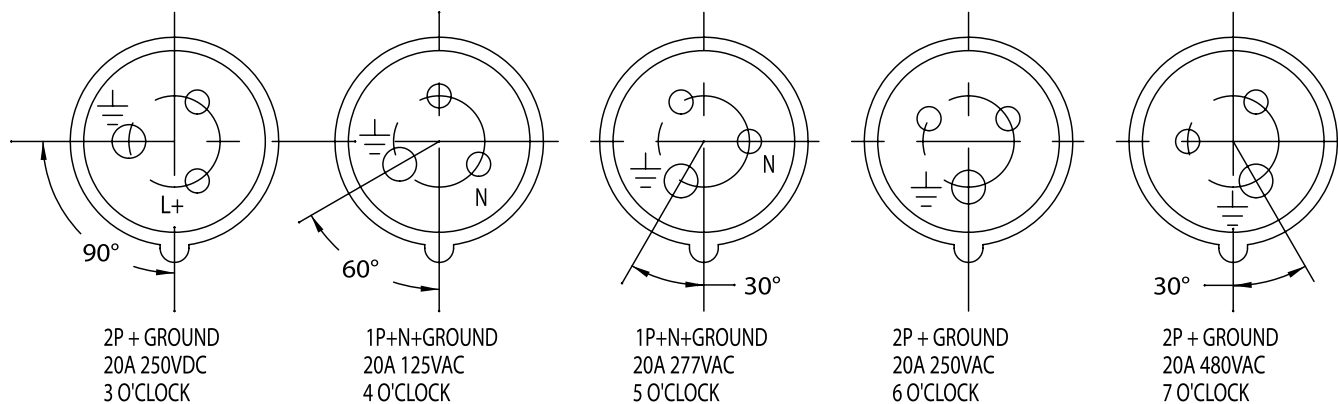
SM702

PIN DETAIL

Figure C2.2 (cont.)

1. MAIN VIEW SHOWN WITH GROUND AT 6 O'CLOCK POSITION FOR REFERENCE ONLY. SEE RATING CONFIGURATION FOR RELEVANT POSITIONS.
2. COLLARS REQUIRED FOR DEVICES HAVING RATED OPERATING VOLTAGES EXCEEDING 500 V, OPTIONAL FOR OTHER DEVICES.
3. ENDS OF PINS MAY BE ROUNDED OFF TOWARDS THE EXTERNAL CYLINDRICAL SURFACE WITHIN A DISTANCE OF 1-1/2 TIMES OF THE MAXIMUM DIMENSION.
4.  DENOTES EQUIPMENT GROUND CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "GREEN" AND/OR COLOR GREEN. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY EARTH SYMBOL ().
5. N DENOTES GROUNDED LINE CONDUCTOR CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "WHITE" AND/OR COLOR WHITE. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY THE LETTER "N".
6.  FOR SPLASHPROOF DEVICES.
7.  FOR WATERTIGHT DEVICES.
8.  FOR DEVICES WITH METAL ENCLOSURES.
9.  FOR DEVICES WITH ENCLOSURES OF INSULATING MATERIALS.

RATING CONFIGURATIONS FRONT VIEW - PLUG OR INLET



SM703

Figure C2.3
Receptacle or Connector
20 Ampere, 4 Wire Without Pilot

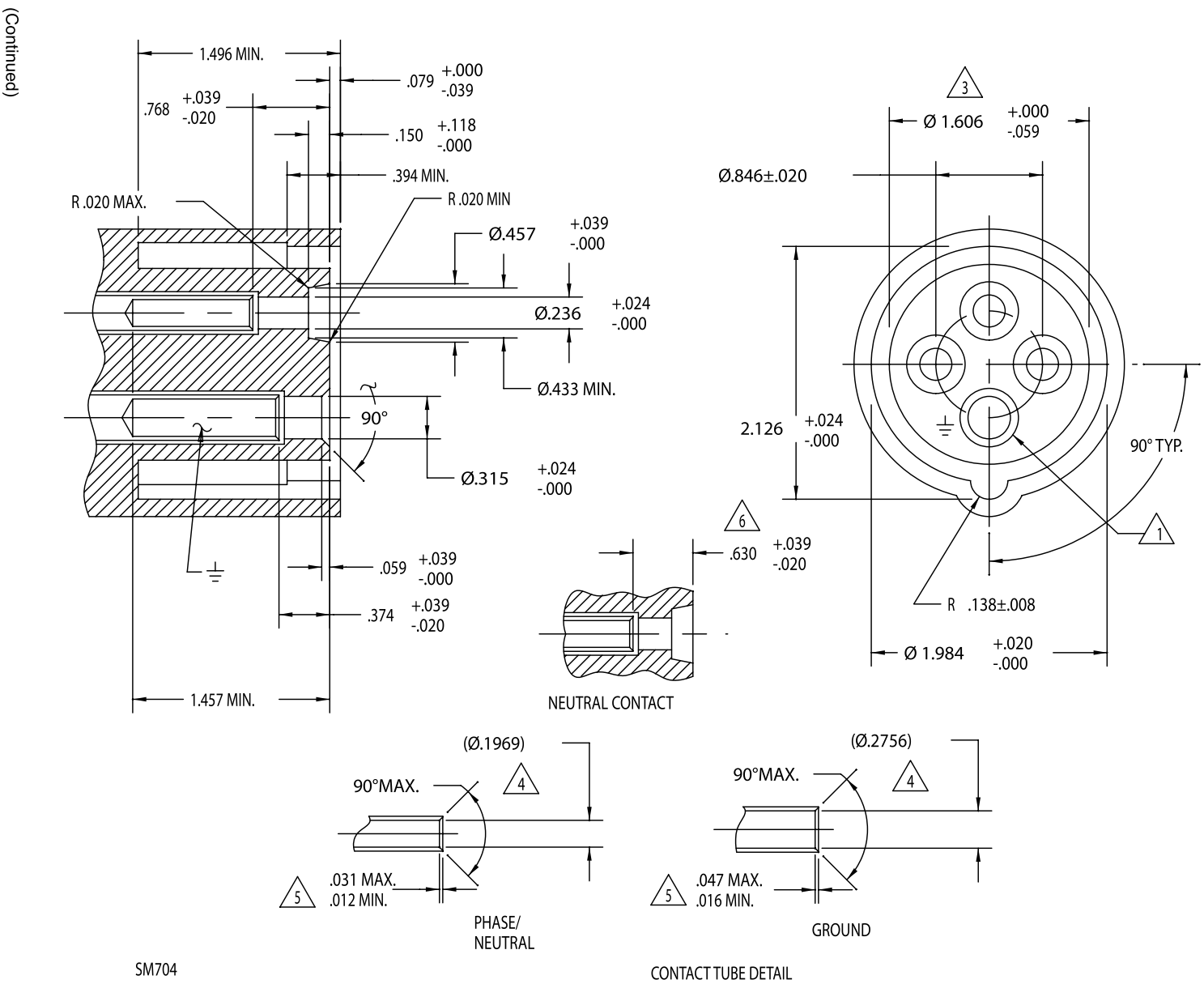
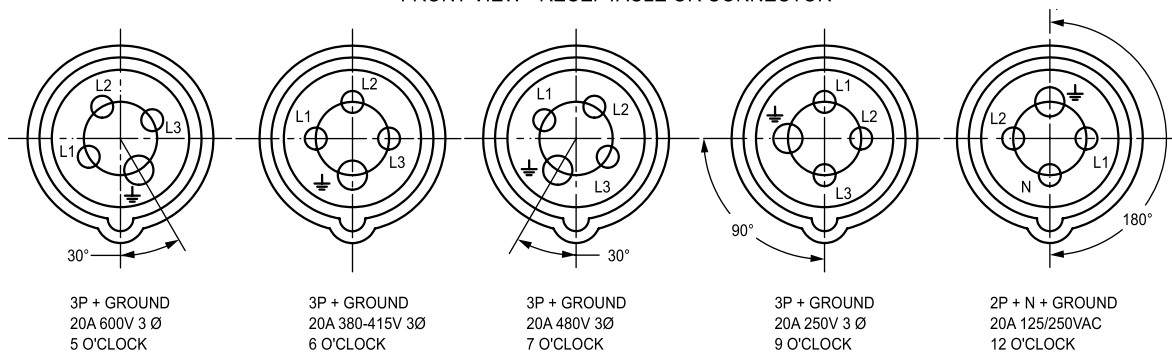


Figure C2.3 (Cont'd)

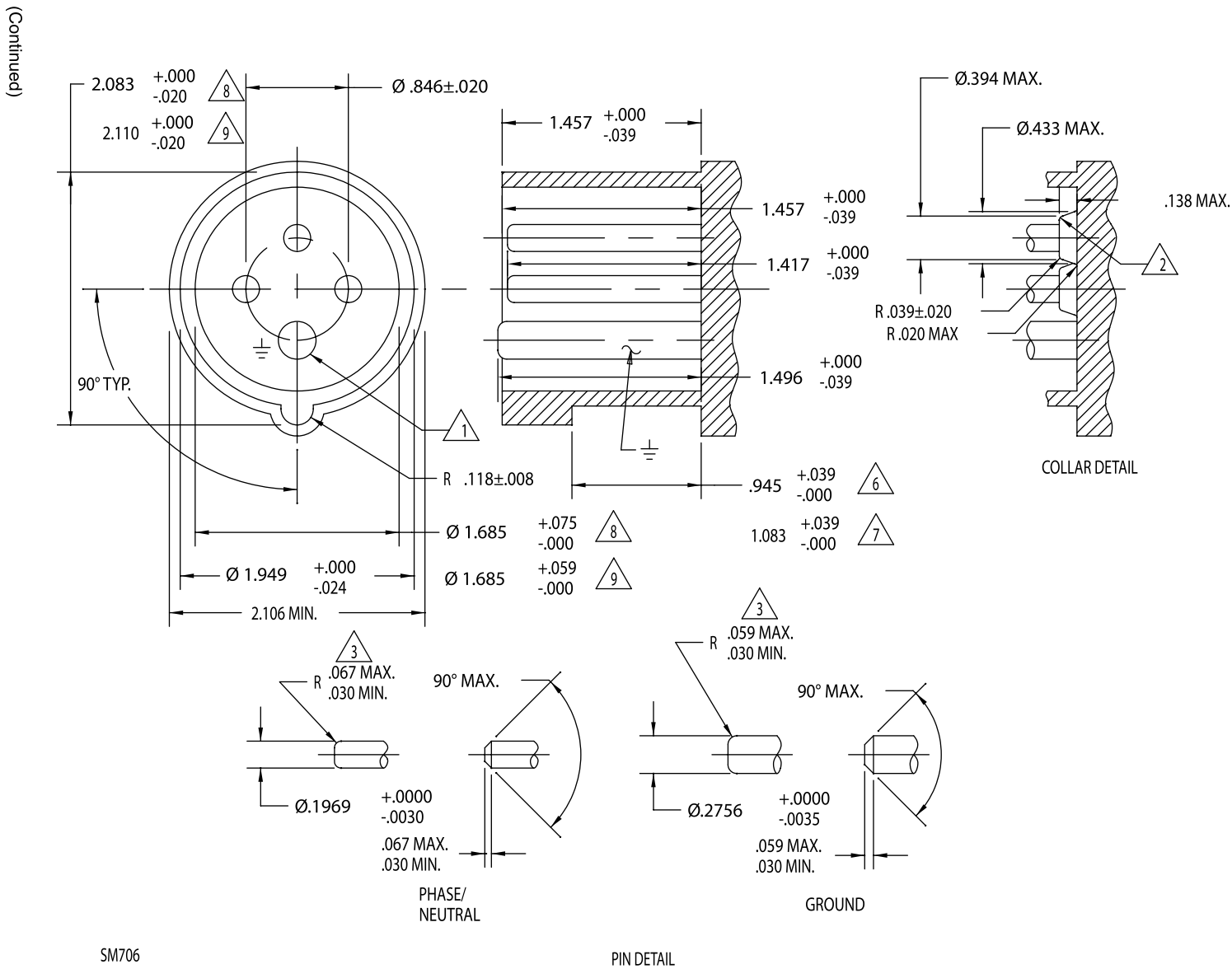
1. MAIN VIEW SHOWN WITH GROUND AT 6 O'CLOCK POSITION FOR REFERENCE ONLY. SEE RATING CONFIGURATION FOR RELEVANT POSITIONS.
2. HOLES OR RECESSES IN THE FRONTAL FACE, IF ANY, OTHER THAN THOSE FOR CONTACT TUBES, SHALL HAVE A DEPTH OF NOT MORE THAN .394 INCHES. (EXCEPTION: SEE NOTE 3)
3. THIS DIMENSION SHALL NOT EXCEED THE PRESCRIBED LIMIT AT ANY POINT OVER THE WHOLE DEPTH, AND SHALL BE WITHIN THE PRESCRIBED LIMITS OVER A MINIMUM DEPTH OF .236 INCHES WITH THE EXCEPTION OF A MAXIMUM OF 4 CUT-OUTS SPACED AROUND THE CIRCUMFERENCE WITH NOT MORE THAN ONE CUT-OUT BETWEEN ADJACENT HOLES FOR THE CONTACT TUBES AND EACH HAVING A WIDTH NOT EXCEEDING .590 INCHES INCLUDING ANY RADII. HOLES DEEPER THAN .394 INCHES IN THE AREA ARE ALLOWED.
4. DIMENSIONS REFER TO PIN DIAMETERS; THE CONTACTS TUBES NEED NOT BE CIRCULAR.
5. THE BEVELLING OF THE CONTACTS TUBES MAY BE ROUNDED OFF TOWARDS THE INTERNAL CYLINDRICAL SURFACE WITHIN A DISTANCE OF 1-1/2 TIMES THE MAXIMUM DIMENSION.
6. NEUTRAL CONTACT WHEN REQUIRED.
7. $\perp$ DENOTES EQUIPMENT GROUND CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "GREEN" AND/OR COLOR GREEN. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY EARTH SYMBOL ($\perp$).
8. N DENOTES GROUNDED LINE CONDUCTOR CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "WHITE" AND/OR COLOR WHITE. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY THE LETTER "N".

RATING CONFIGURATIONS FRONT VIEW - RECEPTACLE OR CONNECTOR



su1352

Figure C2.4
Plug or Inlet
20 Ampere, 4 Wire Without Pilot

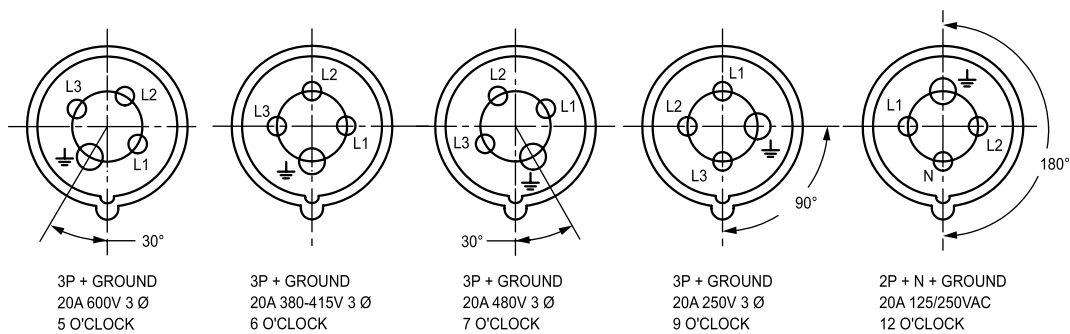


SM706

Figure C2.4 (Cont.)

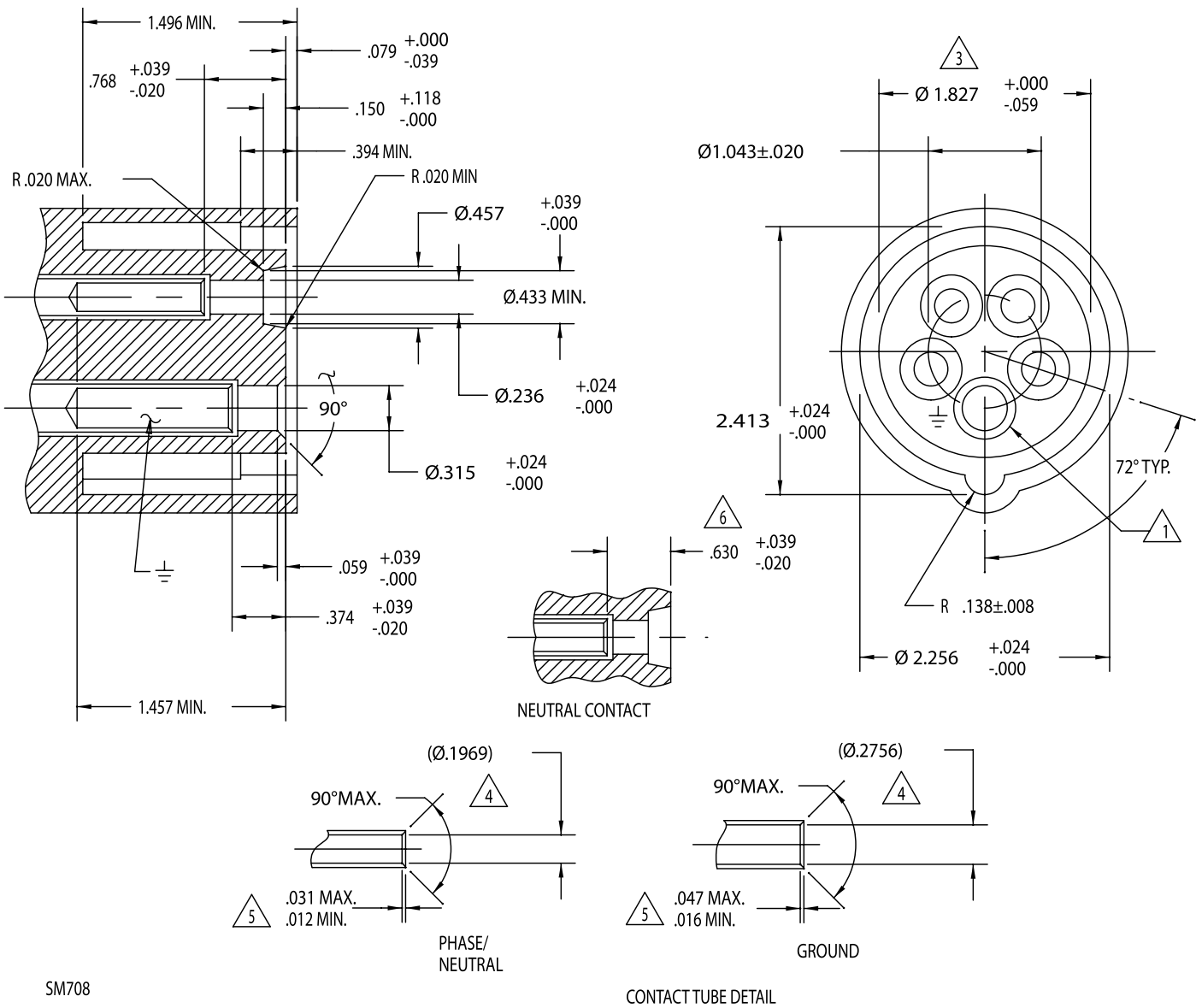
1. MAIN VIEW SHOWN WITH GROUND AT 6 O'CLOCK POSITION FOR REFERENCE ONLY. SEE RATING CONFIGURATION FOR RELEVANT POSITIONS.
2. COLLARS REQUIRED FOR DEVICES HAVING RATED OPERATING VOLTAGES EXCEEDING 500 V, OPTIONAL FOR OTHER DEVICES.
3. ENDS OF PINS MAY BE ROUNDED OFF TOWARDS THE EXTERNAL CYLINDRICAL SURFACE WITHIN A DISTANCE OF 1-1/2 TIMES OF THE MAXIMUM DIMENSION.
4. $\perp$ DENOTES EQUIPMENT GROUND CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "GREEN" AND/OR COLOR GREEN. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY EARTH SYMBOL ($\perp$).
5. N DENOTES GROUNDED LINE CONDUCTOR CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "WHITE" AND/OR COLOR WHITE. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY THE LETTER "N".
6. $\triangle$ FOR SPLASH PROOF DEVICES.
7. ∇ FOR WATERTIGHT DEVICES.
8. $\square$ FOR DEVICES WITH METAL ENCLOSURES.
9. $\square$ FOR DEVICES WITH ENCLOSURES OF INSULATING MATERIALS.

RATING CONFIGURATIONS FRONT VIEW - PLUG OR INLET



su1353

Figure C2.5
Receptacle or Connector
20 Ampere, 5 Wire Without Pilot



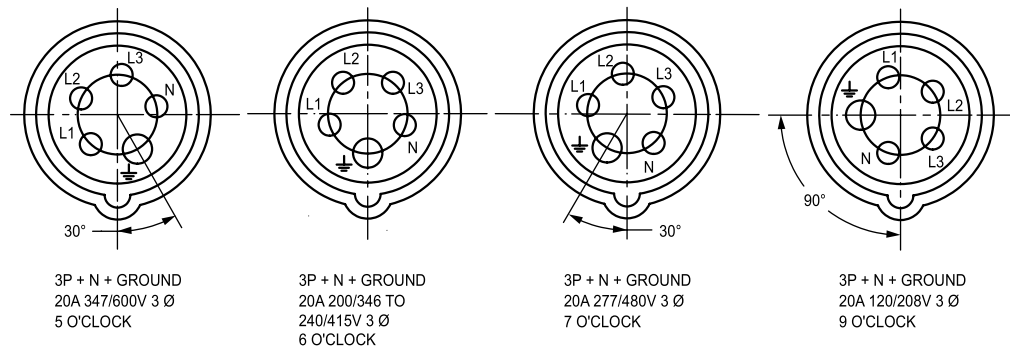
SM708

(Continued)

Figure C2.5 (Cont.)

1. MAIN VIEW SHOWN WITH GROUND AT 6 O'CLOCK POSITION FOR REFERENCE ONLY. SEE RATING CONFIGURATION FOR RELEVANT POSITIONS.
2. HOLES OR RECESSES IN THE FRONTAL FACE, IF ANY, OTHER THAN THOSE FOR CONTACT TUBES, SHALL HAVE A DEPTH OF NOT MORE THAN .394 INCHES. (EXCEPTION: SEE NOTE 3)
3. THIS DIMENSION SHALL NOT EXCEED THE PRESCRIBED LIMIT AT ANY POINT OVER THE WHOLE DEPTH, AND SHALL BE WITHIN THE PRESCRIBED LIMITS OVER A MINIMUM DEPTH OF .236 INCHES WITH THE EXCEPTION OF A MAXIMUM OF 5 CUT-OUTS SPACED AROUND THE CIRCUMFERENCE WITH NOT MORE THAN ONE CUT-OUT BETWEEN ADJACENT HOLES FOR THE CONTACT TUBES AND EACH HAVING A WIDTH NOT EXCEEDING .590 INCHES INCLUDING ANY RADII. HOLES DEEPER THAN .394 INCHES IN THE AREA ARE ALLOWED.
4. DIMENSIONS REFER TO PIN DIAMETERS; THE CONTACTS TUBES NEED NOT BE CIRCULAR.
5. THE BEVELLING OF THE CONTACTS TUBES MAY BE ROUNDED OFF TOWARDS THE INTERNAL CYLINDRICAL SURFACE WITHIN A DISTANCE OF 1-1/2 TIMES THE MAXIMUM DIMENSION.
6. NEUTRAL CONTACT WHEN REQUIRED.
7. $\perp$ DENOTES EQUIPMENT GROUND CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "GREEN" AND/OR COLOR GREEN. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY EARTH SYMBOL ($\perp$).
8. N DENOTES GROUNDED LINE CONDUCTOR CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "WHITE" AND/OR COLOR WHITE. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY THE LETTER "N".

RATING CONFIGURATIONS FRONT VIEW - RECEPTACLE OR CONNECTOR

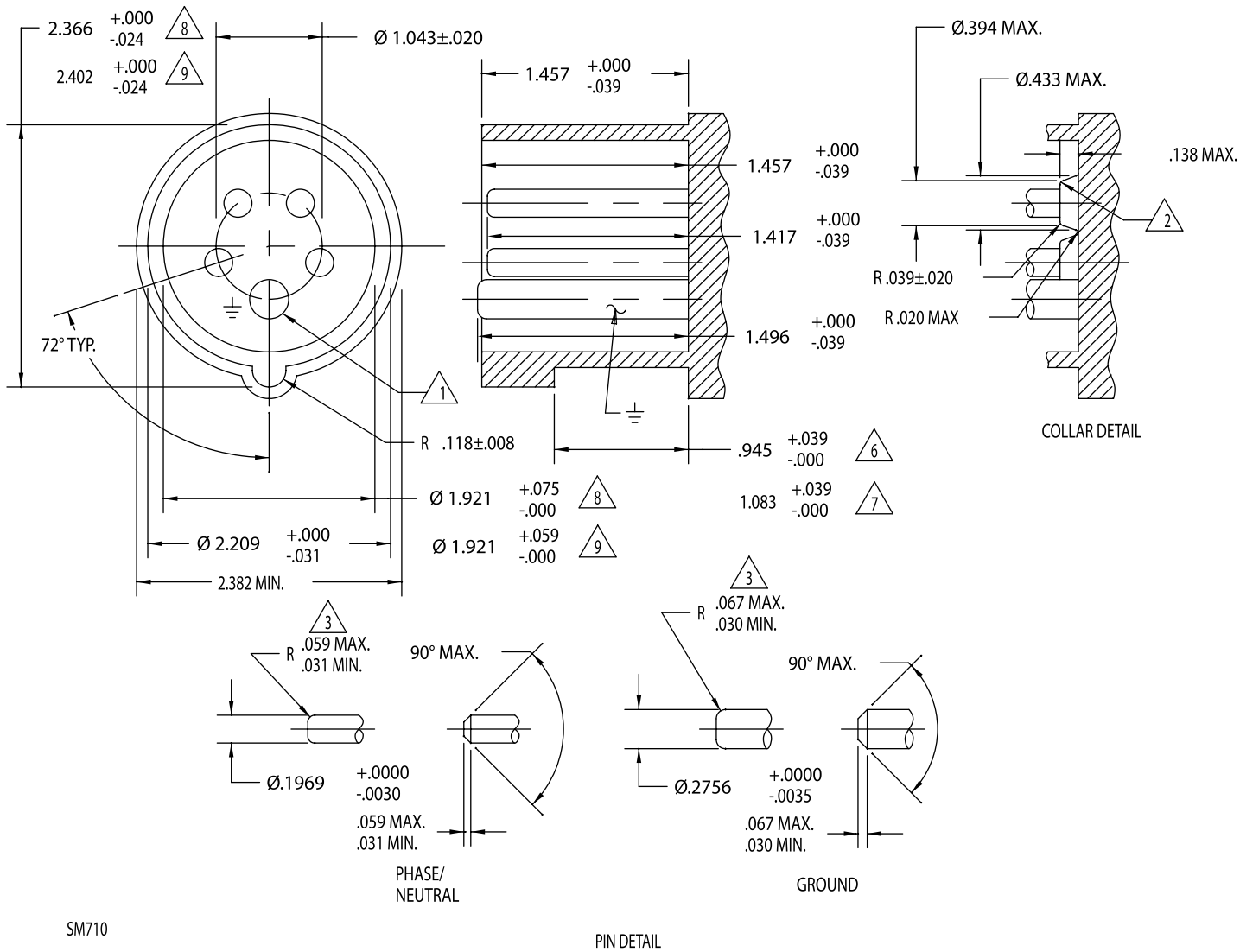


su1354

Figure C2.6
Plug or Inlet

20 Ampere, 5 Wire Without Pilot

(Continued)



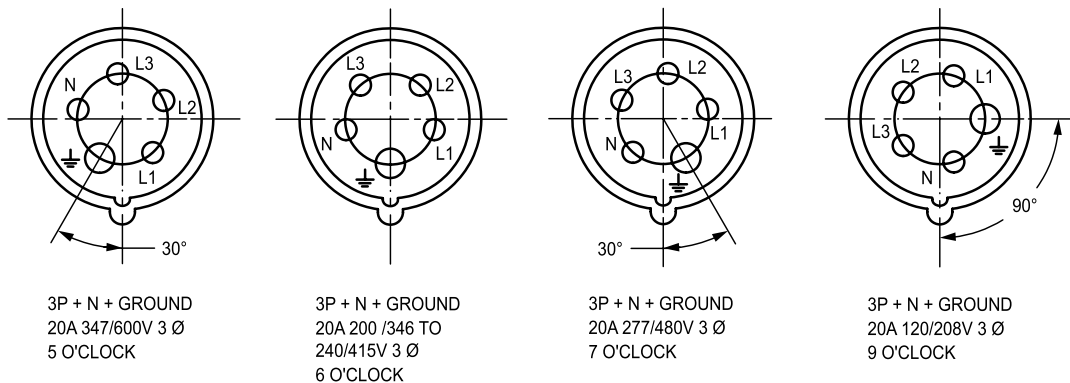
SM710

PIN DETAIL

Figure C2.6 (Cont.)

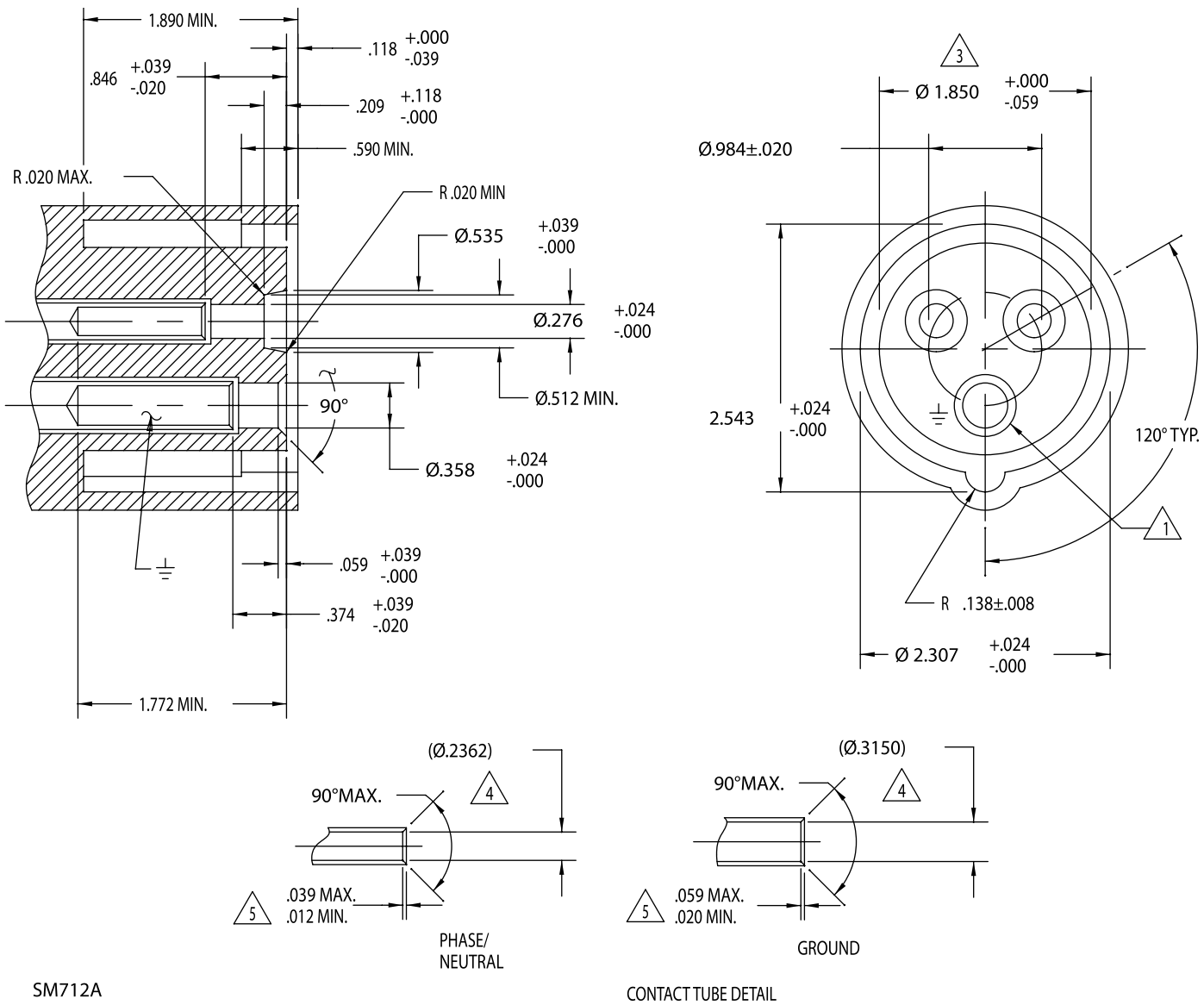
1. MAIN VIEW SHOWN WITH GROUND AT 6 O'CLOCK POSITION FOR REFERENCE ONLY. SEE RATING CONFIGURATION FOR RELEVANT POSITIONS.
2. COLLARS REQUIRED FOR DEVICES HAVING RATED OPERATING VOLTAGES EXCEEDING 500 V, OPTIONAL FOR OTHER DEVICES.
3. ENDS OF PINS MAY BE ROUNDED OFF TOWARDS THE EXTERNAL CYLINDRICAL SURFACE WITHIN A DISTANCE OF 1-1/2 TIMES OF THE MAXIMUM DIMENSION.
4. $\perp$ DENOTES EQUIPMENT GROUND CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "GREEN" AND/OR COLOR GREEN. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY EARTH SYMBOL ($\perp$).
5. N DENOTES GROUNDED LINE CONDUCTOR CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "WHITE" AND/OR COLOR WHITE. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY THE LETTER "N".
6. FOR SPLASHPROOF DEVICES.
7. FOR WATERTIGHT DEVICES.
8. FOR DEVICES WITH METAL ENCLOSURES.
9. FOR DEVICES WITH ENCLOSURES OF INSULATING MATERIALS.

RATING CONFIGURATIONS FRONT VIEW - PLUG OR INLET



su1355

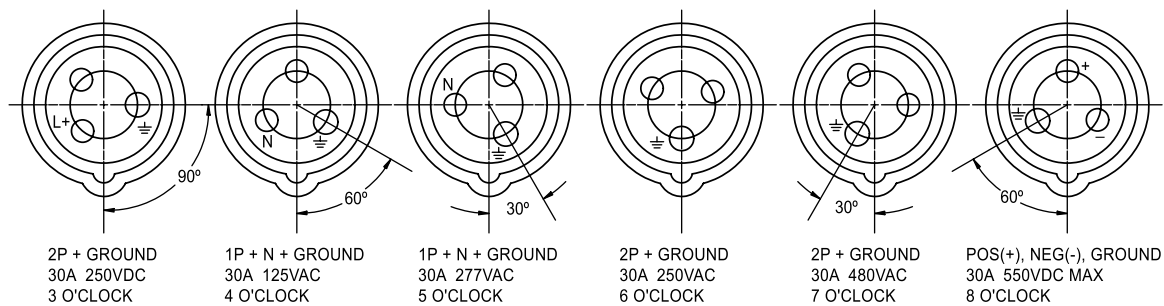
Figure C2.7
Receptacle or Connector
30 Ampere, 3 Wire Without Pilot



(Continued)

Figure C2.7 (Cont.)

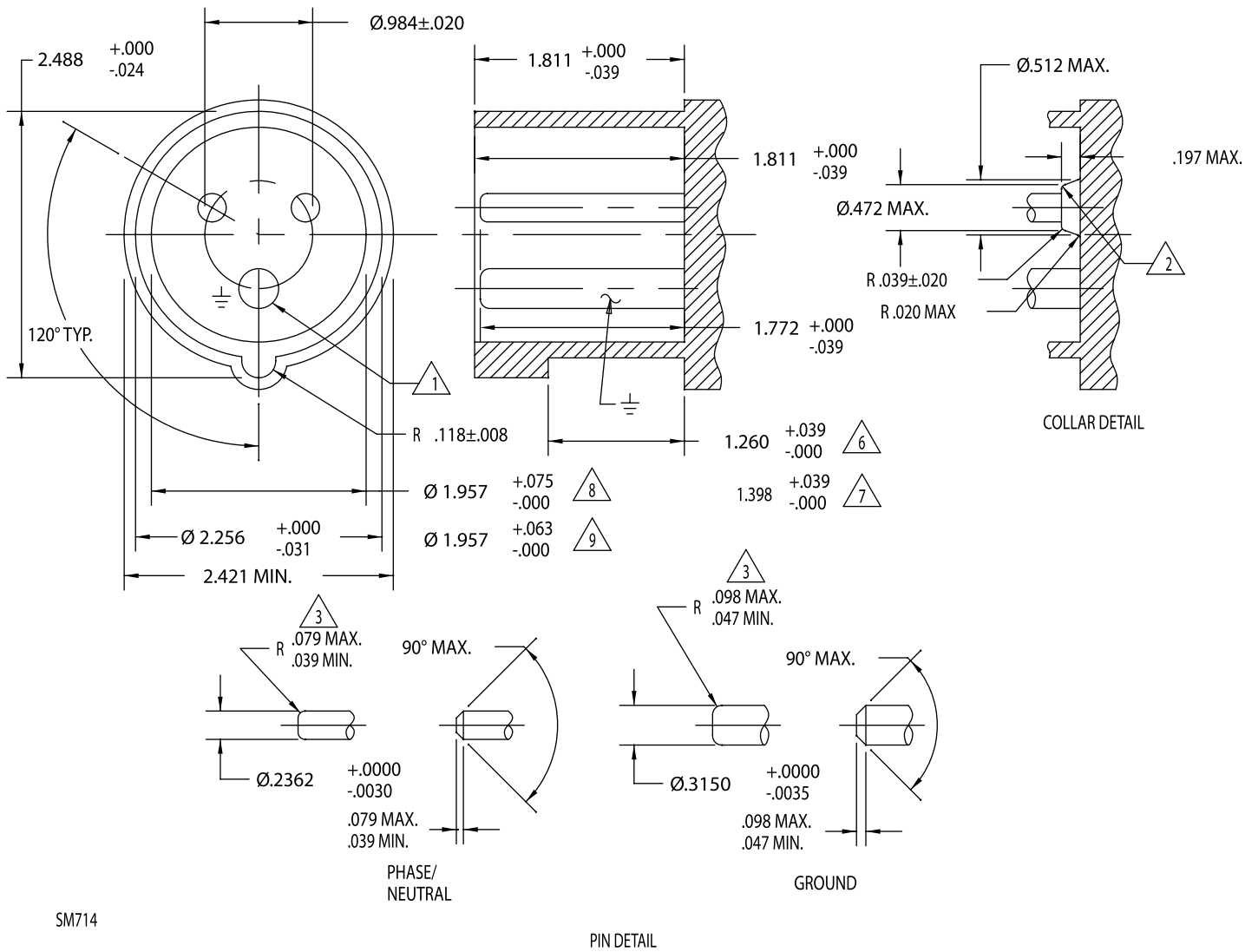
1. MAIN VIEW SHOWN WITH GROUND AT 6 O' CLOCK POSITION FOR REFERENCE ONLY. SEE RATING CONFIGURATION FOR RELEVANT POSITIONS.
2. HOLES OR RECESSES IN THE FRONTAL FACE, IF ANY, OTHER THAN THOSE FOR CONTACT TUBES, SHALL HAVE A DEPTH OF NOT MORE THAN .394 INCHES (EXCEPTION: SEE NOTE 3)
3. THIS DIMENSION SHALL NOT EXCEED THE PRESCRIBED LIMIT AT ANY POINT OVER THE WHOLE DEPTH, AND SHALL BE WITHIN THE PRESCRIBED LIMITS OVER A MINIMUM DEPTH OF .236 INCHES WITH THE EXCEPTION OF A MAXIMUM OF 3 CUT-OUTS SPACED AROUND THE CIRCUMFERENCE WITH NOT MORE THAN ONE CUT-OUT BETWEEN ADJACENT HOLES FOR THE CONTACT TUBES AND EACH HAVING A WIDTH NOT EXCEEDING .590 INCHES INCLUDING ANY RADII. HOLES DEEPER THAN .394 INCHES IN THE AREA ARE ALLOWED.
4. DIMENSIONS REFER TO PIN DIAMETERS; THE CONTACTS TUBES NEED NOT BE CIRCULAR.
5. THE BEVELLING OF CONTACT TUBES MAY BE ROUNDED OFF TOWARDS THE INTERNAL CYLINDRICAL SURFACE WITHIN A DISTANCE OF 1-1/2 TIMES THE MAXIMUM DIMENSION.
6. $\equiv$ DENOTES EQUIPMENT GROUND CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "GREEN" AND/OR COLOR GREEN. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY EARTH SYMBOL ($\equiv$).
7. N DENOTES GROUNDED LINE CONDUCTOR CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "WHITE" AND/OR COLOR WHITE. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY THE LETTER "N".

RATING CONFIGURATIONS
FRONT VIEW - RECEPTACLE OR CONNECTOR

su0698

FIGURE C2.7 (CONT.)

Figure C2.8
Plug or Receptacle
30 Ampere, 3 Wire Without Pilot



SM714

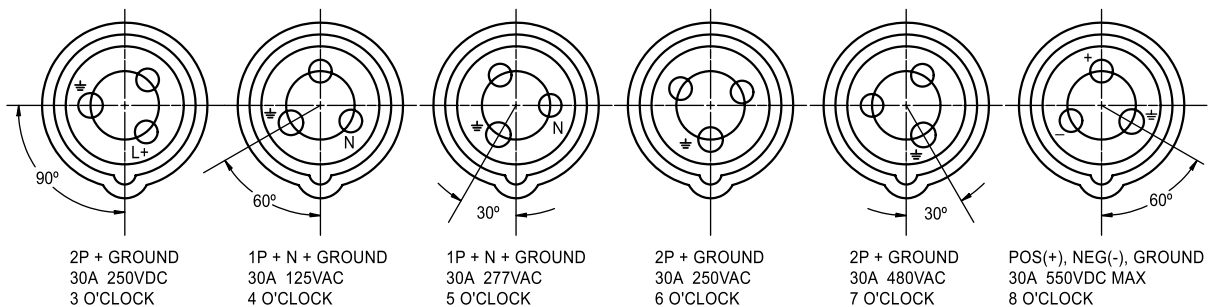
PIN DETAIL

Figure C2.8 (Cont.)

1. MAIN VIEW SHOWN WITH GROUND AT 6 O'CLOCK POSITION FOR REFERENCE ONLY. SEE RATING CONFIGURATION FOR RELEVANT POSITIONS.
2. COLLARS REQUIRED FOR DEVICES HAVING RATED OPERATING VOLTAGES EXCEEDING 500 V. OPTIONAL FOR OTHER DEVICES.
3. END OF PINS MAY BE ROUNDED OFF TOWARDS THE EXTERNAL CYLINDRICAL SURFACE WITHIN A DISTANCE OF 1-1/2 TIMES OF THE MAXIMUM DIMENSIONS.
4. $\perp$ DENOTES EQUIPMENT GROUND CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "GREEN" AND/OR COLOR GREEN. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY EARTH SYMBOL ($\perp$).
5. N DENOTES GROUNDED LINE CONDUCTOR CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "WHITE" AND/OR COLOR WHITE. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY THE LETTER "N".
6. $\triangle$ FOR SPLASHPROOF DEVICES.
7. ∇ FOR WATERTIGHT DEVICES.
8. $\square$ FOR DEVICES WITH METAL ENCLOSURES.
9. $\diamond$ FOR DEVICES WITH ENCLOSURES OF INSULATING MATERIALS.

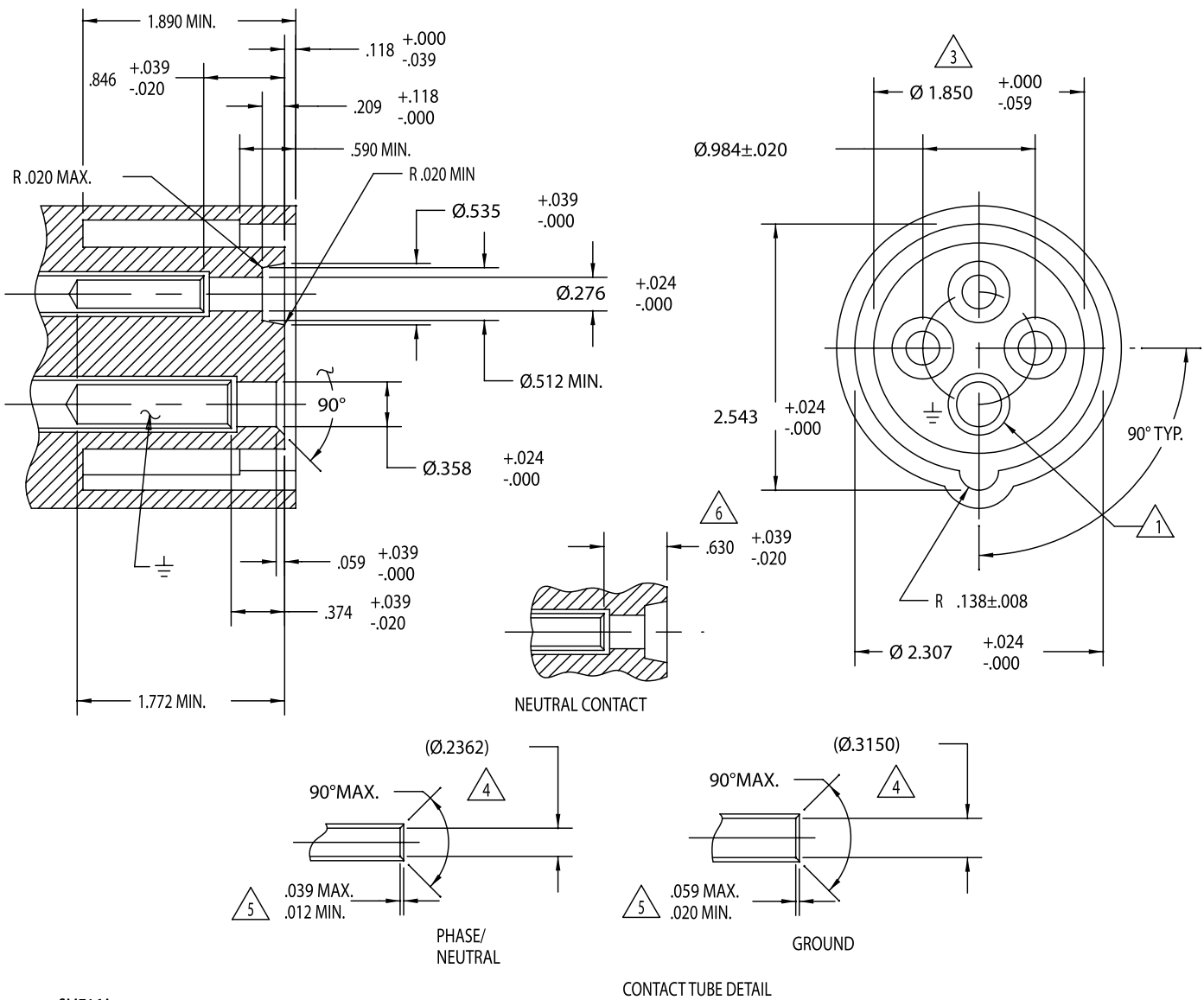
FIGURE C2.8 (CONT.)

RATING CONFIGURATIONS
FRONT VIEW - PLUG OR INLET



su0699

Figure C2.9
Receptacle or Connector
30 Ampere, 4 Wire Without Pilot

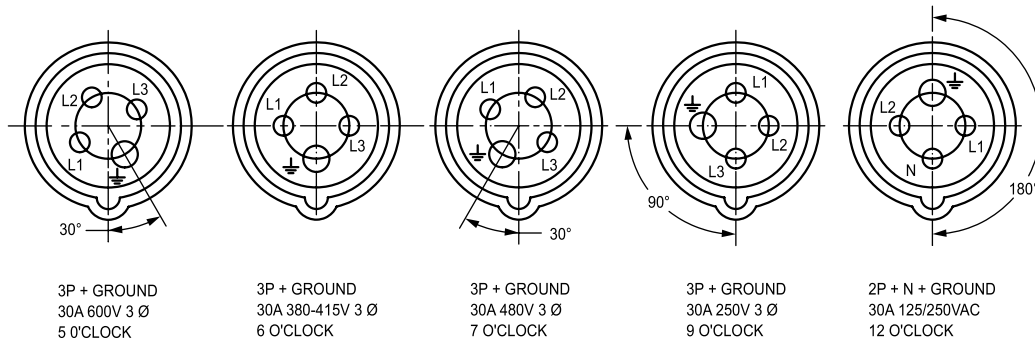


(Continued)

Figure C2.9 (Cont.)

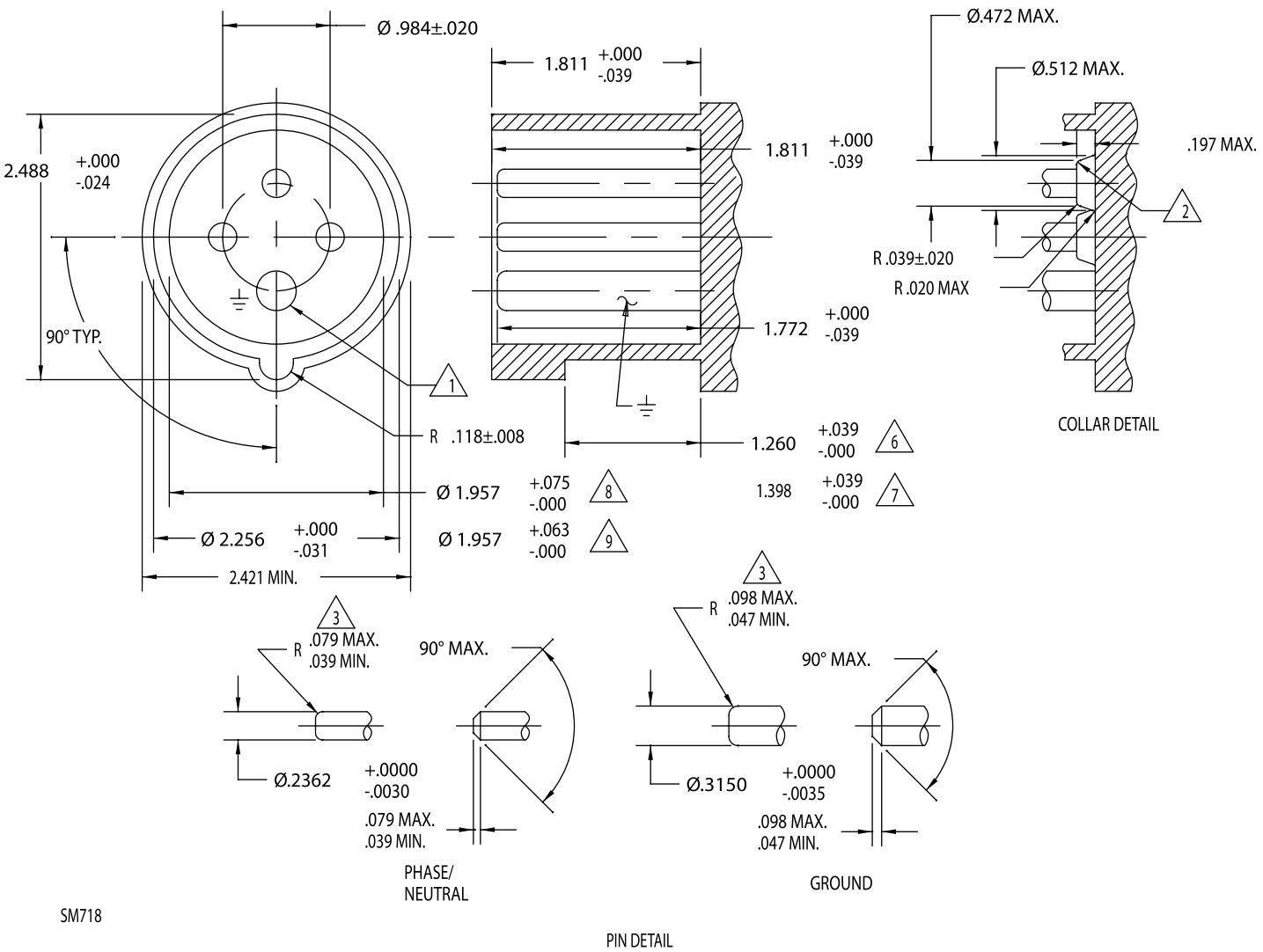
1. MAIN VIEW SHOWN WITH GROUND AT 6 O'CLOCK POSITION FOR REFERENCE ONLY. SEE RATING CONFIGURATION FOR RELEVANT POSITIONS.
2. HOLES OR RECESSES IN THE FRONTAL FACE, IF ANY, OTHER THAN THOSE FOR CONTACT TUBES, SHALL HAVE A DEPTH OF NOT MORE THAN .394 INCHES. (EXCEPTION: SEE NOTE 3)
3. THIS DIMENSION SHALL NOT EXCEED THE PRESCRIBED LIMIT AT ANY POINT OVER THE WHOLE DEPTH, AND SHALL BE WITHIN THE PRESCRIBED LIMITS OVER A MINIMUM DEPTH OF .236 INCHES WITH THE EXCEPTION OF A MAXIMUM OF 4 CUT-OUTS SPACED AROUND THE CIRCUMFERENCE WITH NOT MORE THAN ONE CUT-OUT BETWEEN ADJACENT HOLES FOR THE CONTACT TUBES AND EACH HAVING A WIDTH NOT EXCEEDING .590 INCHES INCLUDING ANY RADII. HOLES DEEPER THAN .394 INCHES IN THE AREA ARE ALLOWED.
4. DIMENSIONS REFER TO PIN DIAMETERS; THE CONTACTS TUBES NEED NOT BE CIRCULAR.
5. THE BEVELLING OF THE CONTACTS TUBES MAY BE ROUNDED OFF TOWARDS THE INTERNAL CYLINDRICAL SURFACE WITHIN A DISTANCE OF 1-1/2 TIMES THE MAXIMUM DIMENSION.
6. NEUTRAL CONTACT WHEN REQUIRED.
7. $\perp$ DENOTES EQUIPMENT GROUND CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "GREEN" AND/OR COLOR GREEN. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY EARTH SYMBOL ($\perp$).
8. N DENOTES GROUNDED LINE CONDUCTOR CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "WHITE" AND/OR COLOR WHITE. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY THE LETTER "N".

RATING CONFIGURATIONS
FRONT VIEW - RECEPTACLE OR CONNECTOR



su1356

Figure C2.10
Plug or Inlet
30 Ampere, 4 Wire Without Pilot



(Continued)

Figure C2.10 (Cont.)

- 1

MAIN VIEW SHOWN WITH GROUND AT 6 O'CLOCK POSITION FOR REFERENCE ONLY. SEE RATING CONFIGURATION FOR RELEVANT POSITIONS.
- 2

COLLARS REQUIRED FOR DEVICES HAVING RATED OPERATING VOLTAGES EXCEEDING 500 V, OPTIONAL FOR OTHER DEVICES.
- 3

ENDS OF PINS MAY BE ROUNDED OFF TOWARDS THE EXTERNAL CYLINDRICAL SURFACE WITHIN A DISTANCE OF 1-1/2 TIMES OF THE MAXIMUM DIMENSION.
- 4

DENOTES EQUIPMENT GROUND CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "GREEN" AND/OR COLOR GREEN. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY EARTH SYMBOL ().
- 5

N

 DENOTES GROUNDED LINE CONDUCTOR CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "WHITE" AND/OR COLOR WHITE. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY THE LETTER "N".
- 6

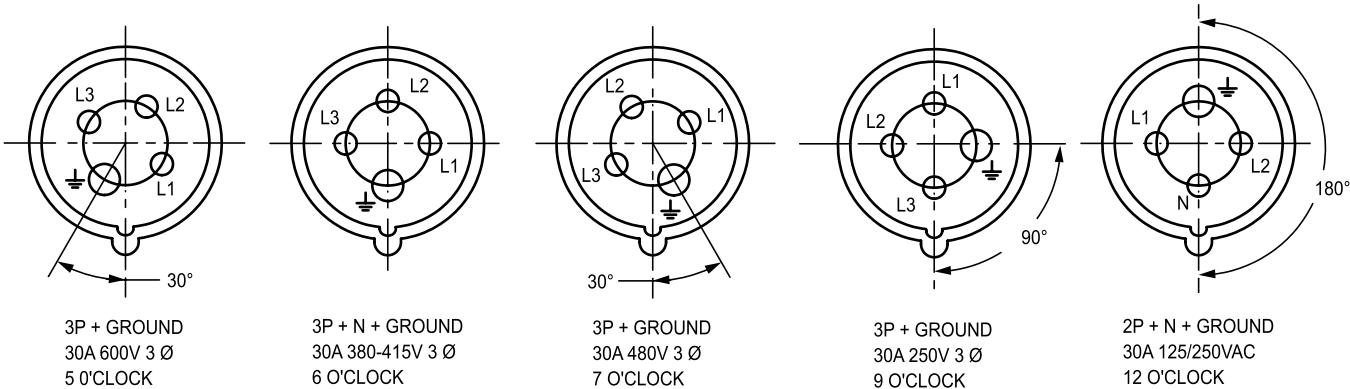
FOR SPLASH PROOF DEVICES.
- 7

FOR WATERTIGHT DEVICES.
- 8

FOR DEVICES WITH METAL ENCLOSURES.
- 9

FOR DEVICES WITH ENCLOSURES OF INSULATING MATERIALS.

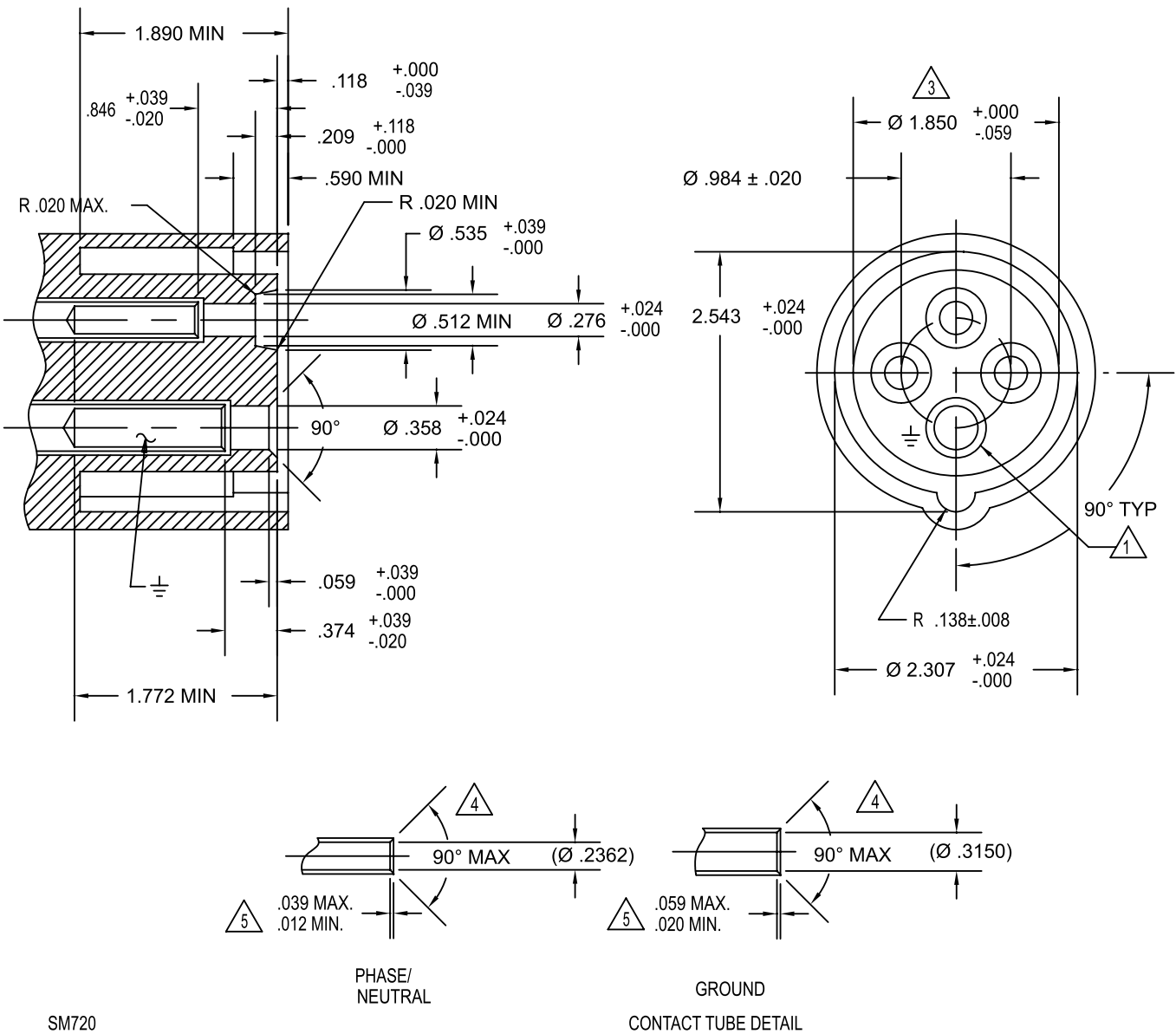
RATING CONFIGURATIONS
FRONT VIEW - PLUG OR INLET



su1357

Figure C2.11
Receptacle or Connector

32/30 Ampere, 4 Wire Without Pilot Only for Refrigerated Containers



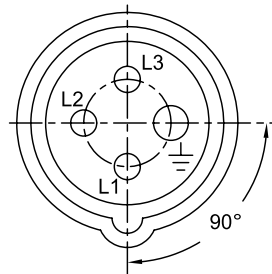
SM720

(Continued)

Figure C2.11 (Cont.)

1. MAIN VIEW SHOWN WITH GROUND AT 6 O'CLOCK POSITION FOR REFERENCE ONLY. SEE RATING CONFIGURATION FOR RELEVANT POSITIONS.
2. HOLES OR RECESSES IN THE FRONTAL FACE, IF ANY, OTHER THAN THOSE FOR CONTACT TUBES, SHALL HAVE A DEPTH OF NOT MORE THAN .394 INCHES. (EXCEPTION: SEE NOTE 3)
3. THIS DIMENSION SHALL NOT EXCEED THE PRESCRIBED LIMIT AT ANY POINT OVER THE WHOLE DEPTH, AND SHALL BE WITHIN THE PRESCRIBED LIMITS OVER A MINIMUM DEPTH OF .236 INCHES WITH THE EXCEPTION OF A MAXIMUM OF 4 CUT-OUTS SPACED AROUND THE CIRCUMFERENCE WITH NOT MORE THAN ONE CUT-OUT BETWEEN ADJACENT HOLES FOR THE CONTACT TUBES AND EACH HAVING A WIDTH NOT EXCEEDING .590 INCHES INCLUDING ANY RADII. HOLES DEEPER THAN .394 INCHES IN THE AREA ARE ALLOWED.
4. DIMENSIONS REFER TO PIN DIAMETERS; THE CONTACTS TUBES NEED NOT BE CIRCULAR.
5. THE BEVELLING OF THE CONTACTS TUBES MAY BE ROUNDED OFF TOWARDS THE INTERNAL CYLINDRICAL SURFACE WITHIN A DISTANCE OF 1-1/2 TIMES THE MAXIMUM DIMENSION.
6. $\perp$ DENOTES EQUIPMENT GROUND CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "GREEN" AND/OR COLOR GREEN. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY EARTH SYMBOL ($\perp$).
7. N DENOTES GROUNDED LINE CONDUCTOR CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "WHITE" AND/OR COLOR WHITE. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY THE LETTER "N".
8. THIS CONFIGURATION IS DUAL RATED FOR THE INTERNATIONAL TRANSSHIPMENT OF REFRIGERATED CONTAINERS. OVERCURRENT PROTECTION SHALL BE RATED AT STANDARD RATINGS PREVALENT LOCALLY.

RATING CONFIGURATIONS
FRONT VIEW - RECEPTACLE OR CONNECTOR



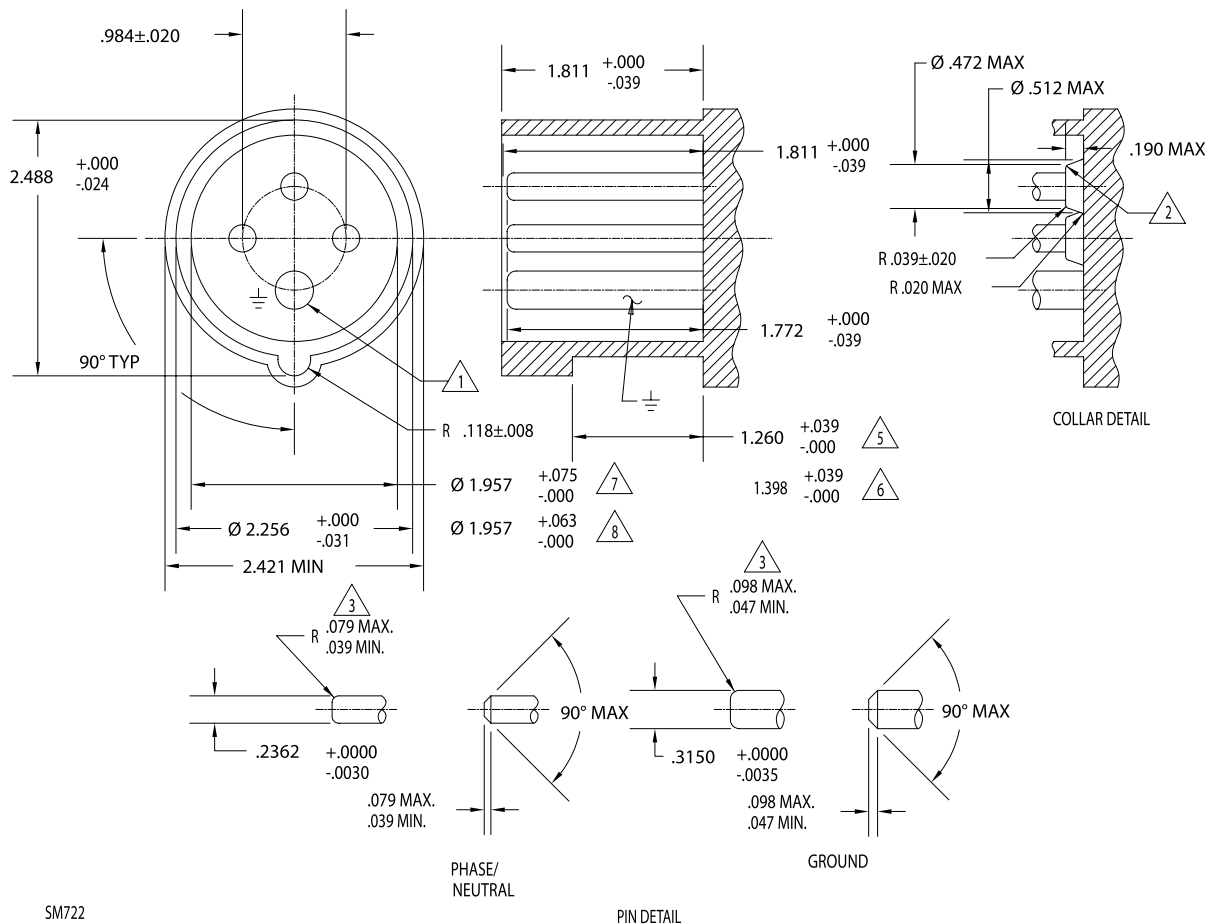
3P + GROUND
30A 440V 60Hz
32A 380V 60Hz
ONLY FOR REFRIGERATED CONTAINERS
3 O'CLOCK

SM721b

Figure C2.12

Plug or Inlet

32/30 Ampere, 4 Wire Without Pilot Only for Refrigerated Containers

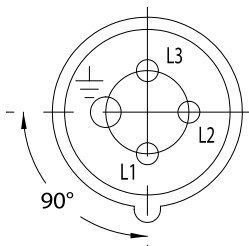


(Continued)

Figure C2.12 (Cont.)

- 1 MAIN VIEW SHOWN WITH GROUND AT 6 O'CLOCK POSITION FOR REFERENCE ONLY. SEE RATING CONFIGURATION FOR RELEVANT POSITIONS.
- 2 COLLARS REQUIRED FOR DEVICES HAVING RATED OPERATING VOLTAGES EXCEEDING 500 V, OPTIONAL FOR OTHER DEVICES.
- 3 ENDS OF PINS MAY BE ROUNDED OFF TOWARDS THE EXTERNAL CYLINDRICAL SURFACE WITHIN A DISTANCE OF 1-1/2 TIMES OF THE MAXIMUM DIMENSION.
- 4.  DENOTES EQUIPMENT GROUND CONTACT. TERMINAL SHALL BE IDENTIFIED BY THE WORD "GREEN" AND/OR COLOR GREEN. TERMINAL MAY BE ADDITIONALLY IDENTIFIED BY EARTH SYMBOL ().
- 5 FOR SPLASHPROOF DEVICES.
- 6 FOR WATERTIGHT DEVICES.
- 7 FOR DEVICES WITH METAL ENCLOSURES.
- 8 FOR DEVICES WITH ENCLOSURES OF INSULATING MATERAILS.
- 9. THIS CONFIGURATION IS DUAL RATED FOR THE INTERNATIONAL TRANSSHIPMENT OF REFRIGERATED CONTAINERS. OVERCURRENT PROTECTION SHALL BE RATED AT STANDARD RATINGS PREVALENT LOCALLY.

RATING CONFIGURATIONS
FRONT VIEW - PLUG OR INLET



3P + GROUND
30A 440V 60Hz
32A 380V 50Hz
ONLY FOR REFRIGERATED CONTAINERS
3 O'CLOCK

SM723

Figure C2.13
Receptacle or Connector
30 Ampere, 5 Wire Without Pilot

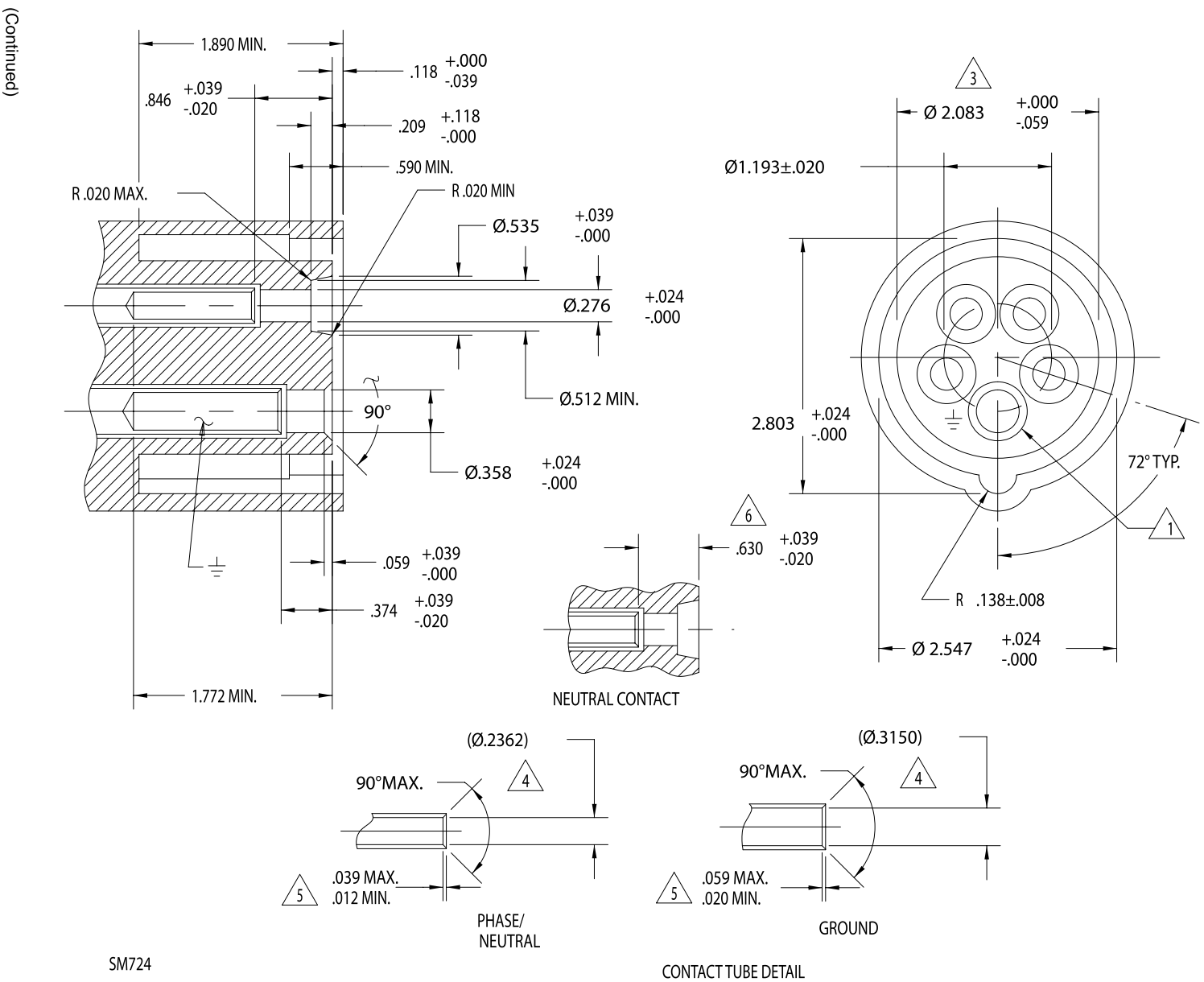
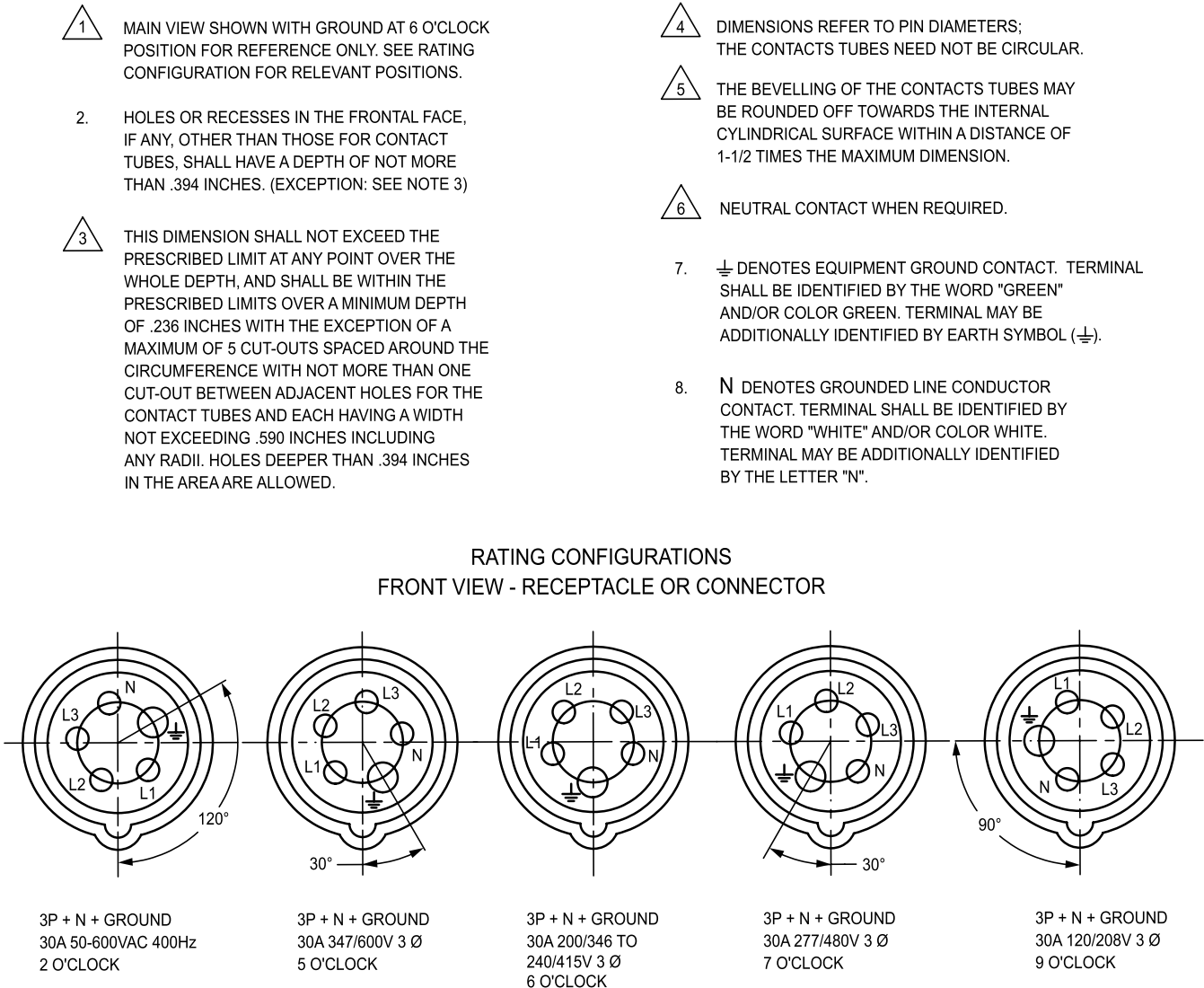
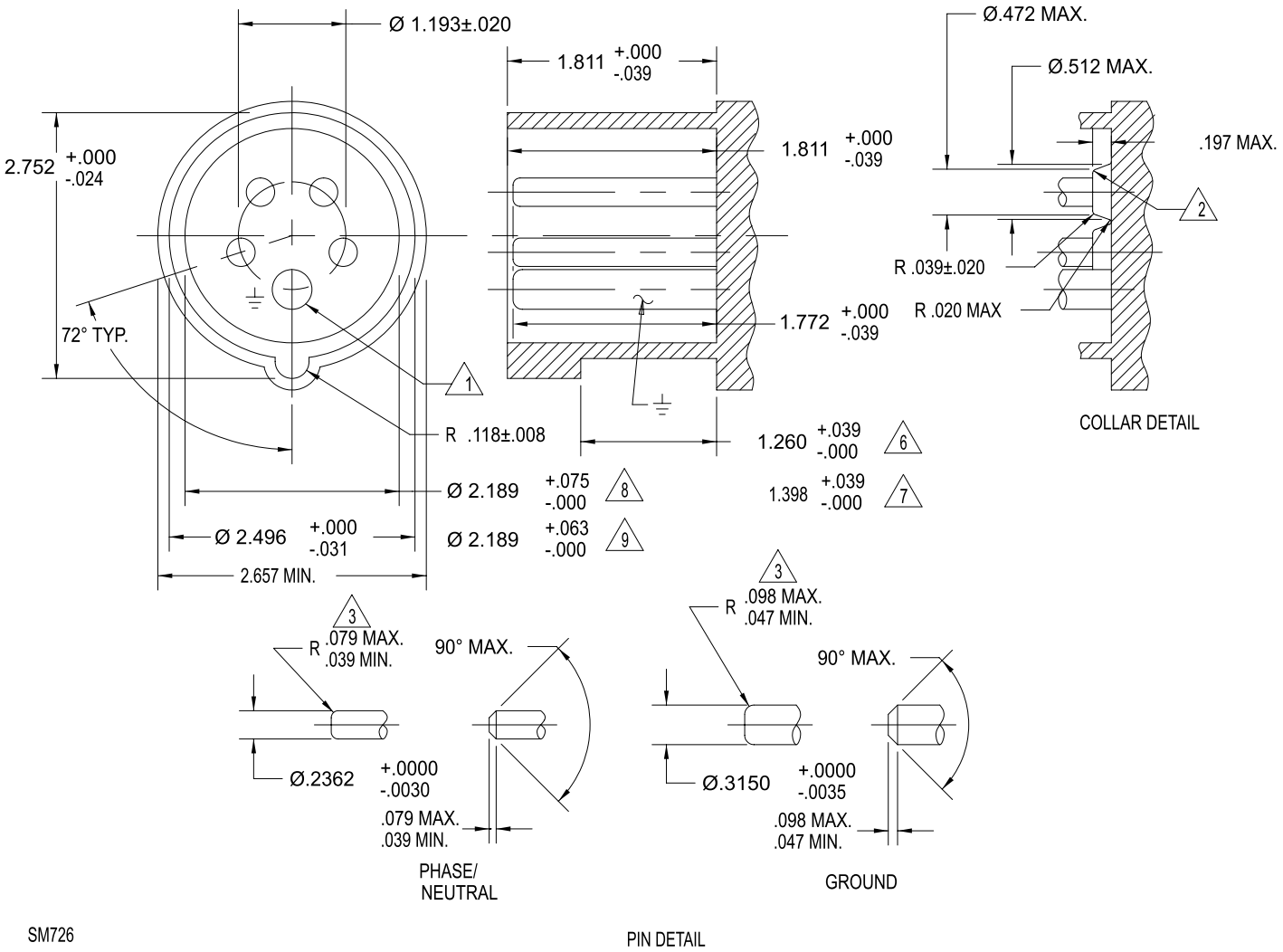


Figure C2.13 (Cont.)



su1358

Figure C2.14
Plug or Inlet
30 Ampere, 5 Wire Without Pilot



(Continued)