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IN REPLY
REFER TO

DSCC-VAT

24 September 2004

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Draft of MIL-DTL-3786 /1F, /2F, /3G, /5G, /9E, /10E, /28E, /32C, and /40B.
Project numbers 5930-1866 through -1874.

The drafts of the above subject documents are being sent to you for review and comments. These drafts consist of the following changes:

- Updating of referenced documents.
- Incorporation of amendments.

If these documents are of interest to you, please provide your comments electronically. This can be in the form of a return e-mail, with or without an attached text file. A 45-day coordination cycle from the date of this letter has been allotted. Please provide your comments within that time period. If no comments are received in the allotted 45 day coordination cycle, concurrence is assumed and all comments received after will be held to the first amendment. If an electronic response is not possible we will still accept comments via letter, facsimile or phone call but only after you have contacted the project officer listed below. The draft documents can be found at the following DSCC-VA web page:

www.dscc.dla.mil/Programs/MilSpec/initialdrafts.asp

This process still requires military departments to identify their comments as "Essential" or "Suggested". Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians or this office, as applicable, in sufficient time to allow for consolidating the department reply.

If there are any questions, please contact Mark Rush by the preferred method of E-Mail at Mark.Rush@dla.mil or by telephone at commercial 614-692-0550, DSN 850-0550; or by facsimile at 614-693-1644. Our mailing address as a last resort is Defense Supply Center, Columbus, DSCC-VAT, P.O. Box 3990, Columbus, OH 43216-5000. If you have further questions or concerns you may contact me at Kendall.Cottongim@dla.mil, by telephone at 614-692-0676 or by facsimile at 614-692-6939.

/ SIGNED /
KENDALL A. COTTONGIM
Chief
Electronics Components Team

NOTE: This draft, dated Sept. 24, 2004 prepared by DLA-CC,
has not been approved and is subject to modification.
DO NOT USE PRIOR TO APPROVAL.
(Project 5930-1868)

| |
|------------------|
| INCH-POUND |
| MIL-DTL-3786/28E |
| Proposed |
| SUPERSEDING |
| MIL-S-3786/28D |
| 21 December 1982 |

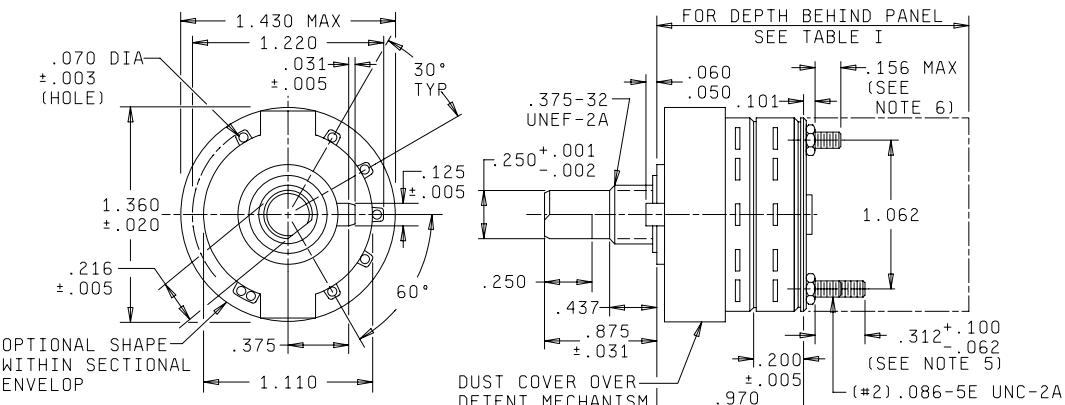
DETAIL SPECIFICATION SHEET

SWITCH, ROTARY, CLOSED CONSTRUCTION, 1 AMPERE AND LOW LEVEL, STYLE SR28

Inactive for new design after 8 March 1999

This specification is approved for use by all
Departments and Agencies of the Department of Defense.

The complete requirements for acquiring the switch described herein shall consist of this specification and the latest issue of MIL-DTL-3786.



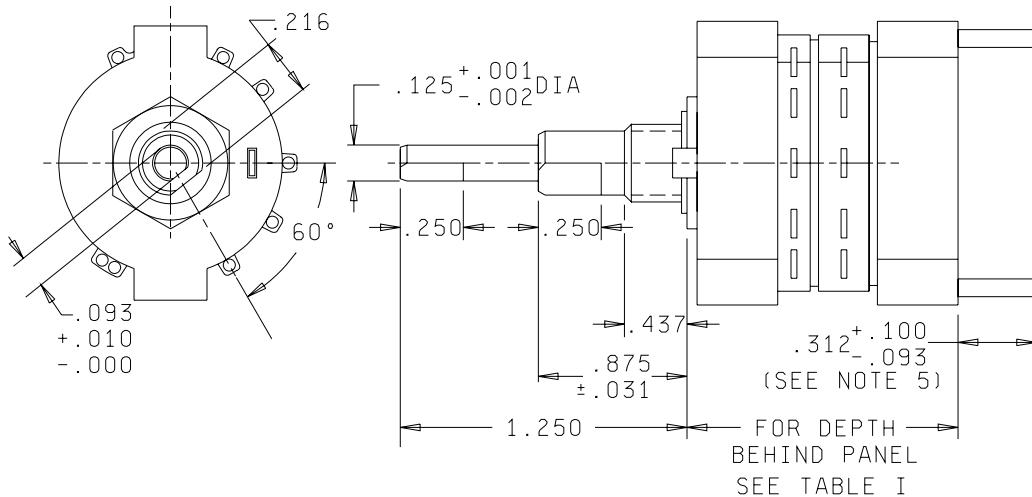
STYLE SR28-1 SINGLE SHAFT

Style SR28-1 Single shaft

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
3. Unless otherwise specified, tolerances are $\pm .015$ (0.38 mm) for three place decimals, $\pm 3^\circ$ on angles and fractions $\pm .015$ (.38 mm).
4. Switches having more than 2.750 inch (69.85 mm) length from mounting surface are provided with through bolts extended .250 inch (6.35 mm) minimum beyond the nuts securing the last switch section at the rear of the switch to provide means to support the rear of the switch.
5. Dimensions to provide rear support for switches with eleven or more wafers.
6. Applied to switches having ten wafers or less.
7. Odd and even wafers are counted from shaft end (front) of switch.

FIGURE 1. Switch.



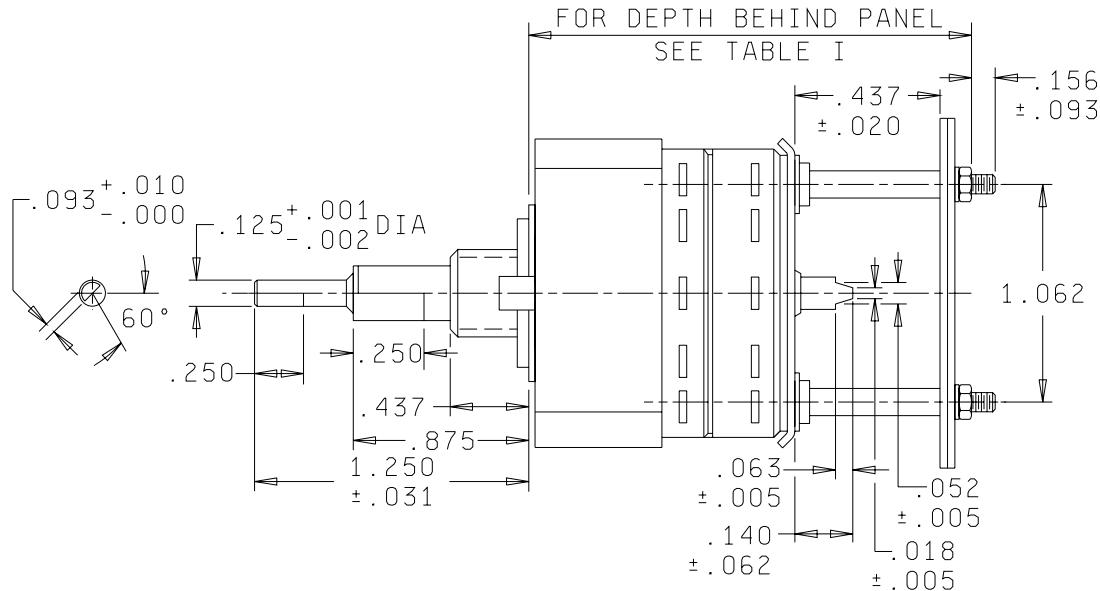
STYLE SR28-2 CONCENTRIC SHAFT

Style SR28-2 Concentric shaft

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
3. Unless otherwise specified, tolerances are $\pm .015$ (0.38 mm) for three place decimals, $\pm 3^\circ$ on angles and fractions $\pm .015$ (.38 mm).
4. Switches having more than 2.750 inch (69.85 mm) length from mounting surface are provided with through bolts extended .250 inch (6.35 mm) minimum beyond the nuts securing the last switch section at the rear of the switch to provide means to support the rear of the switch.
5. Dimensions to provide rear support for switches with eleven or more wafers.
6. Bushing keyway .066 (1.67 mm) $\pm .005$ (.13 mm) wide by .036 (.91 mm). $\pm .003$ (.08 mm) deep measured from a .375 (9.53 mm) diameter is provided for sealed shaft and bushing switches (construction symbol F).
7. For sealed shaft and bushing switches (construction symbol F), integral tab shall not be furnished.
8. Odd and even wafers are counted from shaft end (front) of switch.

FIGURE 1. Switch - Continued.



UNSPECIFIED DIMENSIONS SAME AS STYLE SR28-1 SINGLE SHAFT
STYLE SR28-3 ADD-A-PORT

NOTES:

- Dimensions are in inches.
- Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
- Unless otherwise specified, tolerance are ±.015 (0.38 mm) for three place decimals, ±3° on angles, (non-accumulative).
- Bushing keyway .066 (1.67 mm) ±.005 (.13 mm) wide by .036 (.91 mm). ±.003 (.08 mm) deep measured from a .375 (9.53 mm) diameter is provided for sealed shaft and bushing switches (construction symbol F).
- For sealed shaft and bushing switches (construction symbol F), integral tab shall not be furnished.
- RESISTOR MOUNTING PLATES:** Two resistor mounting plates shall be made of corrosion resistant steel, and shall be of the configuration shown on figure 2. These plates are designed to allow alinement of switch position 1 with full counterclockwise stop of resistor (viewed from shaft end). Only one of the two plates provided with switch is to be used in adapting switch to resistor.
- VARIABLE RESISTORS:** Variable resistors shall be in accordance with the styles covered in MIL-R-94/3 or MIL-R-94/5 with N (standard type bushings, and SL type operating shafts for MIL-R-94/3 SB type operating shafts for MIL-R-94/5).
- Switches having more than 2.750 inch (69.85 mm) length from mounting surface are provided with through bolts extended .250 inch (6.35 mm) minimum beyond the nuts securing the last switch section at the rear of the switch to provide means to support the rear of the switch..

FIGURE 1. Switch - Continued.

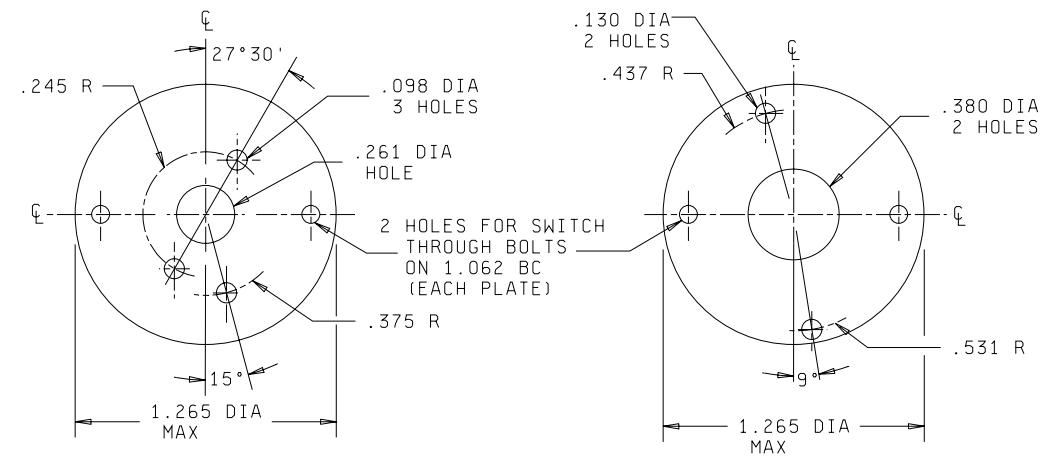
| Decks 1/ | Depth behind panel-inches, max. | | | |
|-------------|---------------------------------|----------------|---------------|----|
| | SR28-1 | SR28-2 | SR28-3 | 2/ |
| 1 | .895 (22.73) | ----- | 1.635 (41.53) | |
| 2 | 1.100 (27.94) | 1.605 (40.77) | 1.840 (46.74) | |
| 3 | 1.305 (33.15) | 1.810 (45.97) | 2.045 (51.94) | |
| 4 | 1.510 (38.35) | 2.015 (51.18) | 2.250 (57.15) | |
| 5 | 1.715 (43.56) | 2.220 (56.39) | 2.455 (62.36) | |
| 6 | 1.920 (48.77) | 2.425 (61.60) | 2.660 (67.56) | |
| 7 | 2.125 (53.98) | 2.630 (66.80) | 2.865 (72.77) | |
| 8 | 2.330 (59.18) | 2.835 (72.01) | 3.070 (77.98) | |
| 9 | 2.535 (64.39) | 3.040 (77.22) | 3.275 (83.19) | |
| 10 | 2.740 (69.60) | 3.245 (82.42) | 3.480 (88.39) | |
| 11 | 2.945 (74.80) | 3.450 (87.23) | 3.685 (93.60) | |
| 12 | 3.150 (80.01) | 3.655 (92.84) | 3.890 (98.81) | |
| 14 | 3.660 (90.42) | 4.065 (103.25) | ----- | |
| 16 | 3.970 (100.84) | 4.475 (113.67) | ----- | |
| 20 | 4.790 (121.67) | ----- | ----- | |
| 22 | 5.200 (132.08) | ----- | ----- | |
| 24 | 5.610 (142.49) | ----- | ----- | |

1/ Total number of decks.

2/ As supplied with both mounting plates (figure 1); subtract .042 inch (1.07 mm) from dimension when one plate is removed.

FIGURE 1. Switch - Continued.

MIL-DTL-3786/28E



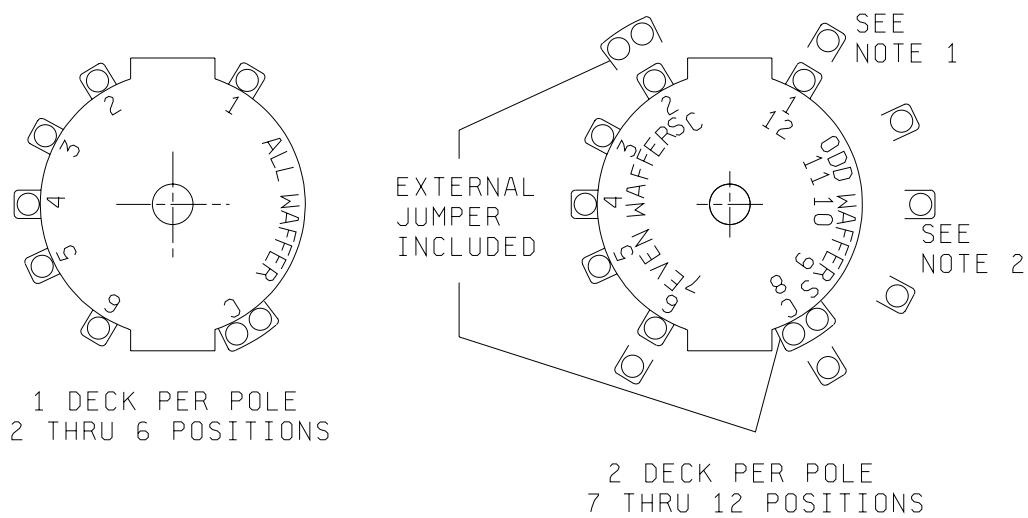
VARIABLE RESISTOR MOUNTING PLATE "A"
FOR USE WITH MIL-R-94/2 (RV5) AND
MIL-R-94/3 (RV6) RESISTORS

VARIABLE RESISTOR MOUNTING PLATE "B"
FOR USE WITH MIL-R-94/4 (RV2) AND
MIL-R-94/5 (RV4) RESISTORS

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
3. Unless otherwise specified, tolerances are $\pm .015$ (0.38 mm) and $\pm 3^\circ$ on angles.

FIGURE 2. Resistor mounting plates, for SR28-3.



- 1/ Inner diagram shows terminal locations for odd number decks.
2/ Outer diagram shows terminal locations for even number decks.

FIGURE 3. Rear view of terminal configuration with nonturn device at nine o'clock.

REQUIREMENTS:

Dimensions and configuration: See figures 1 through 3.

Angle of throw: 30 degrees.

Terminals: The terminal tabs shall extend from the section in a plane perpendicular to the axis of the switch.

Construction type: Symbol E. Explosion proof, totally closed construction, without sealed shaft and panel seal.

Symbol F. Same as E with sealed shaft and panel seal.

Insulation material: Symbol P: Plastic

Temperature-life characteristic: Symbol C. 25,000 cycles -65°C to +125°C.

Altitude: Symbol C. Up to 70,000 ft.

Contact resistance:

Initial and after vibration and shock: 10 milliohms, maximum.

After moisture-resistance and salt spray: 10 milliohms, maximum.

After initial soak and completion of life test: 15 milliohms, maximum

During thermal shock: 1 ohm maximum.

Low level circuit is applicable.

Rotational torque: See table I.

Vibration grade: Symbol 3. 10-2,000 Hz.

Shock type: Symbol M (medium impact) and H (high impact).

Dielectric withstanding voltage:

At atmospheric pressure: 1,000 V rms.

At reduced barometric pressure: 450 V rms, except 350 V rms after life.

Life (rotational): See table II.

Low level switching: Applicable; see note 2 of table II.

Special features: Symbol A. Both shaft grounding and EMI/RFI capability, and both high and low level contact load rating.

Mounting hardware: Each switch shall supplied with one each hexagon nut in accordance with MS25082-B20 or equivalent, and one internal-tooth lockwasher in accordance with NASM35333-76 or equivalent.

TABLE I. Rotational-torque limits. 1/

| Total number of switch poles | Temperature | Torque (lb-in) | |
|------------------------------|-------------|----------------|---------|
| | | Minimum | Maximum |
| Less than 4 | Room | .5 | 2.5 |
| | Minimum | .5 | 3.5 |
| 4 thru 8 | Room | 1.2 | 4.5 |
| | Minimum | 1.2 | 6.0 |
| More than 8 | Room | 2.5 | 7.5 |
| | Minimum | 2.5 | 9.0 |

1/ The rotational torque shall not change more than 40 percent from the initial value after rotational life testing.

TABLE II. Electrical loads.

| Environmental condition | Inductive loads (2.8 H) | | Resistive loads 1/ | |
|---|----------------------------|-------|-------------------------|---|
| | mA | V dc | mA | V dc |
| Elevated temperature 125°C: At atmospheric pressure | 100 | 28 | 10 max 2/ 750 250 | 0.030 dc max or peak ac 2/ 28 dc 115 ac |
| Room temperature (25°C) At atmospheric pressure | 100 3/ | 28 3/ | 1000 4/ 350 4/ | 28 dc 4/ 115 ac 4/ |
| At reduced barometric pressure 25°C | 40 | 28 | 250 40 | 28 dc 115 ac |

- 1/ Each of the loads specified shall be switched by at least one rotor of the switch.
- 2/ Low level switching is applicable. Low level shall be conducted as one of the electrical loads tested during life (rotational) testing. The test circuit, power source, and monitoring apparatus shall be in accordance with method 311 of MIL-STD-202. Contact resistance shall not exceed 7.5 milliohms. At the beginning of the test and every 5,000 cycles thereafter, the contact resistance shall be measured.
- 3/ Reference only.
- 4/ Two sample units shall be tested using the load specified. Testing shall be performed the same as for other loads at atmospheric pressure, except the ambient temperature shall be room temperature.

Test samples to be used for qualification testing:

| <u>Qty</u> | <u>Part no.</u> |
|------------|-----------------|
| 5 | M3786/28-0055 |
| 5 | M3786/28-0132 |
| 5 | M3786/28-1187 |
| 5 | M3786/28-1264 |
| 2 | M3786/28-2132 |
| 2 | M3786/28-3132 |

Part number: See table IV. The military part number shall consist of the prefix M3786/28- and dash number consisting of four numbers sequentially assigned. The numbers fall into the general pattern outlined on table III:

TABLE III. Dash number identification.

| Dash numbers | Style | Construction |
|--------------|--------|--------------|
| 0001-0264 | SR28-1 | E |
| 1001-1264 | SR28-1 | F |
| 2001-2264 | SR28-2 | E |
| 3001-3264 | SR28-2 | F |
| 4001-4132 | SR28-3 | E |
| 5001-5132 | SR28-3 | F |

TABLE IV. Switching characteristics and part numbers.

| Part no. M3786/28- Construction: E Style SR28-1 | Part no. M3786/28- Construction: F Style SR28-1 | Angle of throw | No. of poles | No. of decks | Pos. per pole | Switch Characteristic N or S |
|---|---|----------------------|--------------------|--------------------|---------------------|------------------------------------|
| 0001 | 1001 | 30° | 1 | 1 | 2 | N |
| 0002 | 1002 | 30° | 1 | 1 | 3 | N |
| 0003 | 1003 | 30° | 1 | 1 | 4 | N |
| 0004 | 1004 | 30° | 1 | 1 | 5 | N |
| 0005 | 1005 | 30° | 1 | 1 | 6 1/ | N |
| 0006 | 1006 | 30° | 1 | 2 | 7 | N |
| 0007 | 1007 | 30° | 1 | 2 | 8 | N |
| 0008 | 1008 | 30° | 1 | 2 | 9 | N |
| 0009 | 1009 | 30° | 1 | 2 | 10 | N |
| 0010 | 1010 | 30° | 1 | 2 | 11 | N |
| 0011 | 1011 | 30° | 1 | 2 | 12 2/ | N |
| 0012 | 1012 | 30° | 2 | 2 | 2 | N |
| 0013 | 1013 | 30° | 2 | 2 | 3 | N |
| 0014 | 1014 | 30° | 2 | 2 | 4 | N |
| 0015 | 1015 | 30° | 2 | 2 | 5 | N |

See footnotes at end of table.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-1 | Part no. M3786/28- Construction: F Style SR28-1 | Angle of throw | No. of poles | No. of decks | Pos. per pole | Switch Characteristic N or S |
|---|---|----------------------|--------------------|--------------------|---------------------|------------------------------------|
| 0016 | 1016 | 30° | 2 | 2 | 6 1/ | N |
| 0017 | 1017 | 30° | 2 | 4 | 7 | N |
| 0018 | 1018 | 30° | 2 | 4 | 8 | N |
| 0019 | 1019 | 30° | 2 | 4 | 9 | N |
| 0020 | 1020 | 30° | 2 | 4 | 10 | N |
| 0021 | 1021 | 30° | 2 | 4 | 11 | N |
| 0022 | 1022 | 30° | 2 | 4 | 12 2/ | N |
| 0023 | 1023 | 30° | 3 | 3 | 2 | N |
| 0024 | 1024 | 30° | 3 | 3 | 3 | N |
| 0025 | 1025 | 30° | 3 | 3 | 4 | N |
| 0026 | 1026 | 30° | 3 | 3 | 5 | N |
| 0027 | 1027 | 30° | 3 | 3 | 6 1/ | N |
| 0028 | 1028 | 30° | 3 | 6 | 7 | N |
| 0029 | 1029 | 30° | 3 | 6 | 8 | N |
| 0030 | 1030 | 30° | 3 | 6 | 9 | N |
| 0031 | 1031 | 30° | 3 | 6 | 10 | N |
| 0032 | 1032 | 30° | 3 | 6 | 11 | N |
| 0033 | 1033 | 30° | 3 | 6 | 12 2/ | N |
| 0034 | 1034 | 30° | 4 | 4 | 2 | N |
| 0035 | 1035 | 30° | 4 | 4 | 3 | N |
| 0036 | 1036 | 30° | 4 | 4 | 4 | N |
| 0037 | 1037 | 30° | 4 | 4 | 5 | N |
| 0038 | 1038 | 30° | 4 | 4 | 6 1/ | N |
| 0039 | 1039 | 30° | 4 | 8 | 7 | N |
| 0040 | 1040 | 30° | 4 | 8 | 8 | N |
| 0041 | 1041 | 30° | 4 | 8 | 9 | N |
| 0042 | 1042 | 30° | 4 | 8 | 10 | N |
| 0043 | 1043 | 30° | 4 | 8 | 11 | N |
| 0044 | 1044 | 30° | 4 | 8 | 12 2/ | N |
| 0045 | 1045 | 30° | 5 | 5 | 2 | N |
| 0046 | 1046 | 30° | 5 | 5 | 3 | N |
| 0047 | 1047 | 30° | 5 | 5 | 4 | N |
| 0048 | 1048 | 30° | 5 | 5 | 5 | N |
| 0049 | 1049 | 30° | 5 | 5 | 6 1/ | N |
| 0050 | 1050 | 30° | 5 | 10 | 7 | N |
| 0051 | 1051 | 30° | 5 | 10 | 8 | N |
| 0052 | 1052 | 30° | 5 | 10 | 9 | N |
| 0053 | 1053 | 30° | 5 | 10 | 10 | N |
| 0054 | 1054 | 30° | 5 | 10 | 11 | N |
| 0055 | 1055 | 30° | 5 | 10 | 12 2/ | N |
| 0056 | 1056 | 30° | 6 | 6 | 2 | N |
| 0057 | 1057 | 30° | 6 | 6 | 3 | N |
| 0057 | 1057 | 30° | 6 | 6 | 3 | N |

See footnotes at end of table.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-1 | Part no. M3786/28- Construction: F Style SR28-1 | Angle Of throw | No. of poles | No. of decks | Pos. Per pole | Switch Characteristic N or S |
|---|---|----------------------|-----------------|-----------------|---------------------|------------------------------------|
| 0058 | 1058 | 30° | 6 | 6 | 4 | N |
| 0059 | 1059 | 30° | 6 | 6 | 5 | N |
| 0060 | 1060 | 30° | 6 | 6 | 6 1/ | N |
| 0061 | 1061 | 30° | 6 | 12 | 7 | N |
| 0062 | 1062 | 30° | 6 | 12 | 8 | N |
| 0063 | 1063 | 30° | 6 | 12 | 9 | N |
| 0064 | 1064 | 30° | 6 | 12 | 10 | N |
| 0065 | 1065 | 30° | 6 | 12 | 11 | N |
| 0066 | 1066 | 30° | 6 | 12 | 12 2/ | N |
| 0067 | 1067 | 30° | 7 | 7 | 2 | N |
| 0068 | 1068 | 30° | 7 | 7 | 3 | N |
| 0069 | 1069 | 30° | 7 | 7 | 4 | N |
| 0070 | 1070 | 30° | 7 | 7 | 5 | N |
| 0071 | 1071 | 30° | 7 | 7 | 6 1/ | N |
| 0072 | 1072 | 30° | 7 | 14 | 7 | N |
| 0073 | 1073 | 30° | 7 | 14 | 8 | N |
| 0074 | 1074 | 30° | 7 | 14 | 9 | N |
| 0075 | 1075 | 30° | 7 | 14 | 10 | N |
| 0076 | 1076 | 30° | 7 | 14 | 11 | N |
| 0077 | 1077 | 30° | 7 | 14 | 12 2/ | N |
| 0078 | 1078 | 30° | 8 | 8 | 2 | N |
| 0079 | 1079 | 30° | 8 | 8 | 3 | N |
| 0080 | 1080 | 30° | 8 | 8 | 4 | N |
| 0081 | 1081 | 30° | 8 | 8 | 5 | N |
| 0082 | 1082 | 30° | 8 | 8 | 6 1/ | N |
| 0083 | 1083 | 30° | 8 | 16 | 7 | N |
| 0084 | 1084 | 30° | 8 | 16 | 8 | N |
| 0085 | 1085 | 30° | 8 | 16 | 9 | N |
| 0086 | 1086 | 30° | 8 | 16 | 10 | N |
| 0087 | 1087 | 30° | 8 | 16 | 11 | N |
| 0088 | 1088 | 30° | 8 | 16 | 12 2/ | N |
| 0089 | 1089 | 30° | 9 | 9 | 2 | N |
| 0090 | 1090 | 30° | 9 | 9 | 3 | N |
| 0091 | 1091 | 30° | 9 | 9 | 4 | N |
| 0092 | 1092 | 30° | 9 | 9 | 5 | N |
| 0093 | 1093 | 30° | 9 | 9 | 6 1/ | N |
| 0094 | 1094 | 30° | 9 | 18 | 7 | N |
| 0095 | 1095 | 30° | 9 | 18 | 8 | N |
| 0096 | 1096 | 30° | 9 | 18 | 9 | N |
| 0097 | 1097 | 30° | 9 | 18 | 10 | N |
| 0098 | 1098 | 30° | 9 | 18 | 11 | N |

See footnotes at end of table.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-1 | Part no. M3786/28- Construction: F Style SR28-1 | Angle Of throw | No. of poles | No. of decks | Pos. Per pole | Switch Characteristic N or S |
|---|---|----------------------|-----------------|-----------------|---------------------|------------------------------------|
| 0099 | 1099 | 30° | 9 | 18 | 12 2/ 2 | N |
| 0100 | 1100 | 30° | 10 | 10 | | N |
| 0101 | 1101 | 30° | 10 | 10 | 3 | N |
| 0102 | 1102 | 30° | 10 | 10 | 4 | N |
| 0103 | 1103 | 30° | 10 | 10 | 5 | N |
| 0104 | 1104 | 30° | 10 | 10 | 6 1/ 7 | N |
| 0105 | 1105 | 30° | 10 | 20 | 7 | N |
| 0106 | 1106 | 30° | 10 | 20 | 8 | N |
| 0107 | 1107 | 30° | 10 | 20 | 9 | N |
| 0108 | 1108 | 30° | 10 | 20 | 10 | N |
| 0109 | 1109 | 30° | 10 | 20 | 11 | N |
| 0110 | 1110 | 30° | 10 | 20 | 12 2/ 2 | N |
| 0111 | 1111 | 30° | 11 | 11 | 2 | N |
| 0112 | 1112 | 30° | 11 | 11 | 3 | N |
| 0113 | 1113 | 30° | 11 | 11 | 4 | N |
| 0114 | 1114 | 30° | 11 | 11 | 5 | N |
| 0115 | 1115 | 30° | 11 | 11 | 6 1/ 7 | N |
| 0116 | 1116 | 30° | 11 | 22 | 7 | N |
| 0117 | 1117 | 30° | 11 | 22 | 8 | N |
| 0118 | 1118 | 30° | 11 | 22 | 9 | N |
| 0119 | 1119 | 30° | 11 | 22 | 10 | N |
| 0120 | 1120 | 30° | 11 | 22 | 11 | N |
| 0121 | 1121 | 30° | 11 | 22 | 12 1/ 2 | N |
| 0122 | 1122 | 30° | 12 | 12 | 2 | N |
| 0123 | 1123 | 30° | 12 | 12 | 3 | N |
| 0124 | 1124 | 30° | 12 | 12 | 4 | N |
| 0125 | 1125 | 30° | 12 | 12 | 5 | N |
| 0126 | 1126 | 30° | 12 | 12 | 6 1/ 7 | N |
| 0127 | 1127 | 30° | 12 | 24 | 7 | N |
| 0128 | 1128 | 30° | 12 | 24 | 8 | N |
| 0129 | 1129 | 30° | 12 | 24 | 9 | N |
| 0130 | 1130 | 30° | 12 | 24 | 10 | N |
| 0131 | 1131 | 30° | 12 | 24 | 11 | N |
| 0132 | 1132 | 30° | 12 | 24 | 6 1/ 2 | N |
| 0133 | 1133 | 30° | 1 | 1 | 2 | S |
| 0134 | 1134 | 30° | 1 | 1 | 3 | S |
| 0135 | 1135 | 30° | 1 | 1 | 4 | S |
| 0136 | 1136 | 30° | 1 | 1 | 5 | S |
| 0137 | 1137 | 30° | 1 | 1 | 6 1/ 7 | S |
| 0138 | 1138 | 30° | 1 | 2 | 7 | S |
| 0139 | 1139 | 30° | 1 | 2 | 8 | S |

See footnotes at end of table.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-1 0140 | Part no. M3786/28- Construction: F Style SR28-1 1140 | Angle Of throw 30° | No. of poles 1 | No. of decks 2 | Pos. Per pole 9 | Switch Characteristic N or S S |
|---|---|-----------------------------|----------------------|----------------------|--------------------------|---|
| 0141 | 1141 | 30° | 1 | 2 | 10 | S |
| 0142 | 1142 | 30° | 1 | 2 | 11 | S |
| 0143 | 1143 | 30° | 1 | 2 | 12 1/ | S |
| 0144 | 1144 | 30° | 2 | 2 | 2 | S |
| 0145 | 1145 | 30° | 2 | 2 | 3 | S |
| 0146 | 1146 | 30° | 2 | 2 | 4 | S |
| 0147 | 1147 | 30° | 2 | 2 | 5 | S |
| 0148 | 1148 | 30° | 2 | 2 | 6 1/ | S |
| 0149 | 1149 | 30° | 2 | 4 | 7 | S |
| 0150 | 1150 | 30° | 2 | 4 | 8 | S |
| 0151 | 1151 | 30° | 2 | 4 | 9 | S |
| 0152 | 1152 | 30° | 2 | 4 | 10 | S |
| 0153 | 1153 | 30° | 2 | 4 | 11 | S |
| 0154 | 1154 | 30° | 2 | 4 | 12 1/ | S |
| 0155 | 1155 | 30° | 3 | 3 | 2 | S |
| 0156 | 1156 | 30° | 3 | 3 | 3 | S |
| 0157 | 1157 | 30° | 3 | 3 | 4 | S |
| 0158 | 1158 | 30° | 3 | 3 | 5 | S |
| 0159 | 1159 | 30° | 3 | 3 | 6 1/ | S |
| 0160 | 1160 | 30° | 3 | 6 | 7 | S |
| 0161 | 1161 | 30° | 3 | 6 | 8 | S |
| 0162 | 1162 | 30° | 3 | 6 | 9 | S |
| 0163 | 1163 | 30° | 3 | 6 | 10 | S |
| 0164 | 1164 | 30° | 3 | 6 | 11 | S |
| 0165 | 1165 | 30° | 3 | 6 | 12 1/ | S |
| 0166 | 1166 | 30° | 4 | 4 | 2 | S |
| 0167 | 1167 | 30° | 4 | 4 | 3 | S |
| 0168 | 1168 | 30° | 4 | 4 | 4 | S |
| 0169 | 1169 | 30° | 4 | 4 | 5 | S |
| 0170 | 1170 | 30° | 4 | 4 | 6 1/ | S |
| 0171 | 1171 | 30° | 4 | 8 | 7 | S |
| 0172 | 1172 | 30° | 4 | 8 | 8 | S |
| 0173 | 1173 | 30° | 4 | 8 | 9 | S |
| 0174 | 1174 | 30° | 4 | 8 | 10 | S |
| 0175 | 1175 | 30° | 4 | 8 | 11 | S |
| 0176 | 1176 | 30° | 4 | 8 | 12 1/ | S |
| 0177 | 1177 | 30° | 5 | 5 | 2 | S |
| 0178 | 1178 | 30° | 5 | 5 | 3 | S |
| 0179 | 1179 | 30° | 5 | 5 | 4 | S |
| 0180 | 1180 | 30° | 5 | 5 | 5 | S |
| 0181 | 1181 | 30° | 5 | 5 | 6 1/ | S |
| 0182 | 1182 | 30° | 5 | 10 | 7 | S |
| 0183 | 1183 | 30° | 5 | 10 | 8 | S |

See footnotes at end of table.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-1 | Part no. M3786/28- Construction: F Style SR28-1 | Angle Of throw | No. of poles | No. of decks | Pos. Per pole | Switch Characteristic N or S |
|---|---|----------------------|-----------------|-----------------|---------------------|------------------------------------|
| 0184 | 1184 | 30° | 5 | 10 | 9 | S |
| 0185 | 1185 | 30° | 5 | 10 | 10 | S |
| 0186 | 1186 | 30° | 5 | 10 | 11 | S |
| 0187 | 1187 | 30° | 5 | 10 | 12 1/ | S |
| 0188 | 1188 | 30° | 6 | 6 | 2 | S |
| 0189 | 1189 | 30° | 6 | 6 | 3 | S |
| 0190 | 1190 | 30° | 6 | 6 | 4 | S |
| 0191 | 1191 | 30° | 6 | 6 | 5 | S |
| 0192 | 1192 | 30° | 6 | 6 | 6 1/ | S |
| 0193 | 1193 | 30° | 6 | 12 | 7 | S |
| 0194 | 1194 | 30° | 6 | 12 | 8 | S |
| 0195 | 1195 | 30° | 6 | 12 | 9 | S |
| 0196 | 1196 | 30° | 6 | 12 | 10 | S |
| 0197 | 1197 | 30° | 6 | 12 | 11 | S |
| 0198 | 1198 | 30° | 6 | 12 | 12 1/ | S |
| 0199 | 1199 | 30° | 7 | 7 | 2 | S |
| 0200 | 1200 | 30° | 7 | 7 | 3 | S |
| 0201 | 1201 | 30° | 7 | 7 | 4 | S |
| 0202 | 1202 | 30° | 7 | 7 | 5 | S |
| 0203 | 1203 | 30° | 7 | 7 | 6 1/ | S |
| 0204 | 1204 | 30° | 7 | 14 | 7 | S |
| 0205 | 1205 | 30° | 7 | 14 | 8 | S |
| 0206 | 1206 | 30° | 7 | 14 | 9 | S |
| 0207 | 1207 | 30° | 7 | 14 | 10 | S |
| 0208 | 1208 | 30° | 7 | 14 | 11 | S |
| 0209 | 1209 | 30° | 7 | 14 | 12 1/ | S |
| 0210 | 1210 | 30° | 8 | 8 | 2 | S |
| 0211 | 1211 | 30° | 8 | 8 | 3 | S |
| 0212 | 1212 | 30° | 8 | 8 | 4 | S |
| 0213 | 1213 | 30° | 8 | 8 | 5 | S |
| 0214 | 1214 | 30° | 8 | 8 | 6 1/ | S |
| 0215 | 1215 | 30° | 8 | 16 | 7 | S |
| 0216 | 1216 | 30° | 8 | 16 | 8 | S |
| 0217 | 1217 | 30° | 8 | 16 | 9 | S |
| 0218 | 1218 | 30° | 8 | 16 | 10 | S |
| 0219 | 1219 | 30° | 8 | 16 | 11 | S |
| 0220 | 1220 | 30° | 8 | 16 | 12 1/ | S |
| 0221 | 1221 | 30° | 9 | 9 | 2 | S |
| 0222 | 1222 | 30° | 9 | 9 | 3 | S |
| 0223 | 1223 | 30° | 9 | 9 | 4 | S |
| 0224 | 1224 | 30° | 9 | 9 | 5 | S |
| 0225 | 1225 | 30° | 9 | 9 | 6 1/ | S |
| 0226 | 1226 | 30° | 9 | 18 | 7 | S |
| 0227 | 1227 | 30° | 9 | 18 | 8 | S |

See footnotes at end of table.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-1 | Part no. M3786/28- Construction: F Style SR28-1 | Angle Of throw | No. of poles | No. of decks | Pos. Per pole | Switch Characteristic N or S |
|---|---|----------------------|-----------------|-----------------|---------------------|------------------------------------|
| 0228 | 1228 | 30° | 9 | 18 | 9 | S |
| 0229 | 1229 | 30° | 9 | 18 | 10 | S |
| 0230 | 1230 | 30° | 9 | 18 | 11 | S |
| 0231 | 1231 | 30° | 9 | 18 | 12 1/ | S |
| 0232 | 1232 | 30° | 10 | 10 | 2 | S |
| 0233 | 1233 | 30° | 10 | 10 | 3 | S |
| 0234 | 1234 | 30° | 10 | 10 | 4 | S |
| 0235 | 1235 | 30° | 10 | 10 | 5 | S |
| 0236 | 1236 | 30° | 10 | 10 | 6 1/ | S |
| 0237 | 1237 | 30° | 10 | 20 | 7 | S |
| 0238 | 1238 | 30° | 10 | 20 | 8 | S |
| 0239 | 1239 | 30° | 10 | 20 | 9 | S |
| 0240 | 1240 | 30° | 10 | 20 | 10 | S |
| 0241 | 1241 | 30° | 10 | 20 | 11 | S |
| 0242 | 1242 | 30° | 10 | 20 | 12 1/ | S |
| 0243 | 1243 | 30° | 11 | 11 | 2 | S |
| 0244 | 1244 | 30° | 11 | 11 | 3 | S |
| 0245 | 1245 | 30° | 11 | 11 | 4 | S |
| 0246 | 1246 | 30° | 11 | 11 | 5 | S |
| 0247 | 1247 | 30° | 11 | 11 | 6 1/ | S |
| 0248 | 1248 | 30° | 11 | 22 | 7 | S |
| 0249 | 1249 | 30° | 11 | 22 | 8 | S |
| 0250 | 1250 | 30° | 11 | 22 | 9 | S |
| 0251 | 1251 | 30° | 11 | 22 | 10 | S |
| 0252 | 1252 | 30° | 11 | 22 | 11 | S |
| 0253 | 1253 | 30° | 11 | 22 | 12 1/ | S |
| 0254 | 1254 | 30° | 12 | 12 | 2 | S |
| 0255 | 1255 | 30° | 12 | 12 | 3 | S |
| 0256 | 1256 | 30° | 12 | 12 | 4 | S |
| 0257 | 1257 | 30° | 12 | 12 | 5 | S |
| 0258 | 1258 | 30° | 12 | 12 | 12 1/ | S |
| 0259 | 1259 | 30° | 12 | 24 | 7 | S |
| 0260 | 1260 | 30° | 12 | 24 | 8 | S |
| 0261 | 1261 | 30° | 12 | 24 | 9 | S |
| 0262 | 1262 | 30° | 12 | 24 | 10 | S |
| 0263 | 1263 | 30° | 12 | 24 | 11 | S |
| 0264 | 1264 | 30° | 12 | 24 | 12 1/ | S |

1/ May be used for all 2 to 6 position applications using field adjustable stops that are supplied.

2/ Continuous rotation-may be used for all 7 to 12 position applications using field adjustable stops that are supplied.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-2 | Part no. M3786/28- Construction: F Style SR28-2 | Angle of throw | No. 1/ of poles | No. 1/ of decks | Pos. per pole | Switch Characteristic N or S |
|---|---|----------------------|-----------------------|-----------------------|---------------------|------------------------------------|
| 2001 | 3001 | 30° | 1/1 | 1/1 | 2 | N |
| 2002 | 3002 | 30° | 1/1 | 1/1 | 3 | N |
| 2003 | 3003 | 30° | 1/1 | 1/1 | 4 | N |
| 2004 | 3004 | 30° | 1/1 | 1/1 | 5 | N |
| 2005 | 3005 | 30° | 1/1 | 1/1 | 6 2/ | N |
| 2006 | 3006 | 30° | 1/1 | 2/2 | 7 | N |
| 2007 | 3007 | 30° | 1/1 | 2/2 | 8 | N |
| 2008 | 3008 | 30° | 1/1 | 2/2 | 9 | N |
| 2009 | 3009 | 30° | 1/1 | 2/2 | 10 | N |
| 2010 | 3010 | 30° | 1/1 | 2/2 | 11 | N |
| 2011 | 3011 | 30° | 1/1 | 2/2 | 12 3/ | N |
| 2012 | 3012 | 30° | 2/1 | 2/1 | 2 | N |
| 2013 | 3013 | 30° | 2/1 | 2/1 | 3 | N |
| 2014 | 3014 | 30° | 2/1 | 2/1 | 4 | N |
| 2015 | 3015 | 30° | 2/1 | 2/1 | 5 | N |
| 2016 | 3016 | 30° | 2/1 | 2/1 | 6 2/ | N |
| 2017 | 3017 | 30° | 2/1 | 4/2 | 7 | N |
| 2018 | 3018 | 30° | 2/1 | 4/2 | 8 | N |
| 2019 | 3019 | 30° | 2/1 | 4/2 | 9 | N |
| 2020 | 3020 | 30° | 2/1 | 4/2 | 10 | N |
| 2021 | 3021 | 30° | 2/1 | 4/2 | 11 | N |
| 2022 | 3022 | 30° | 2/1 | 4/2 | 12 3/ | N |
| 2023 | 3023 | 30° | 3/1 | 3/1 | 2 | N |
| 2024 | 3024 | 30° | 3/1 | 3/1 | 3 | N |
| 2025 | 3025 | 30° | 3/1 | 3/1 | 4 | N |
| 2026 | 3026 | 30° | 3/1 | 3/1 | 5 | N |
| 2027 | 3027 | 30° | 3/1 | 3/1 | 6 2/ | N |
| 2028 | 3028 | 30° | 3/1 | 6/2 | 7 | N |
| 2029 | 3029 | 30° | 3/1 | 6/2 | 8 | N |
| 2030 | 3030 | 30° | 3/1 | 6/2 | 9 | N |
| 2031 | 3031 | 30° | 3/1 | 6/2 | 10 | N |
| 2032 | 3032 | 30° | 3/1 | 6/2 | 11 | N |
| 2033 | 3033 | 30° | 3/1 | 6/2 | 12 3/ | N |
| 2034 | 3034 | 30° | 4/1 | 4/1 | 2 | N |
| 2035 | 3035 | 30° | 4/1 | 4/1 | 3 | N |
| 2036 | 3036 | 30° | 4/1 | 4/1 | 4 | N |
| 2037 | 3037 | 30° | 4/1 | 4/1 | 5 | N |
| 2038 | 3038 | 30° | 4/1 | 4/1 | 6 2/ | N |
| 2039 | 3039 | 30° | 4/1 | 8/2 | 7 | N |
| 2040 | 3040 | 30° | 4/1 | 8/2 | 8 | N |
| 2041 | 3041 | 30° | 4/1 | 8/2 | 9 | N |
| 2042 | 3042 | 30° | 4/1 | 8/2 | 10 | N |
| 2043 | 3043 | 30° | 4/1 | 8/2 | 11 | N |

See footnotes at end of table.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-1 | Part no. M3786/28- Construction: F Style SR28-1 | Angle Of throw | No. of poles | No. of decks | Pos. Per pole | Switch Characteristic N or S |
|---|---|----------------------|--------------------|--------------------|---------------------|------------------------------------|
| 2044 | 3044 | 30° | 4/1 | 8/2 | 12 3/ | N |
| 2045 | 3045 | 30° | 5/1 | 5/1 | 2 | N |
| 2046 | 3046 | 30° | 5/1 | 5/1 | 3 | N |
| 2047 | 3047 | 30° | 5/1 | 5/1 | 4 | N |
| 2048 | 3048 | 30° | 5/1 | 5/1 | 5 | N |
| 2049 | 3049 | 30° | 5/1 | 5/1 | 6 2/ | N |
| 2050 | 3050 | 30° | 5/1 | 10/2 | 7 | N |
| 2051 | 3051 | 30° | 5/1 | 10/2 | 8 | N |
| 2052 | 3052 | 30° | 5/1 | 10/2 | 9 | N |
| 2053 | 3053 | 30° | 5/1 | 10/2 | 10 | N |
| 2054 | 3054 | 30° | 5/1 | 10/2 | 11 | N |
| 2055 | 3055 | 30° | 5/1 | 10/2 | 12 3/ | N |
| 2056 | 3056 | 30° | 6/1 | 6/1 | 2 | N |
| 2057 | 3057 | 30° | 6/1 | 6/1 | 3 | N |
| 2058 | 3058 | 30° | 6/1 | 6/1 | 4 | N |
| 2059 | 3059 | 30° | 6/1 | 6/1 | 5 | N |
| 2060 | 3060 | 30° | 6/1 | 6/1 | 6 2/ | N |
| 2061 | 3061 | 30° | 6/1 | 12/2 | 7 | N |
| 2062 | 3062 | 30° | 6/1 | 12/2 | 8 | N |
| 2063 | 3063 | 30° | 6/1 | 12/2 | 9 | N |
| 2064 | 3064 | 30° | 6/1 | 12/2 | 10 | N |
| 2065 | 3065 | 30° | 6/1 | 12/2 | 11 | N |
| 2066 | 3066 | 30° | 6/1 | 12/2 | 12 3/ | N |
| 2067 | 3067 | 30° | 1/2 | 1/2 | 2 | N |
| 2068 | 3068 | 30° | 1/2 | 1/2 | 3 | N |
| 2069 | 3069 | 30° | 1/2 | 1/2 | 4 | N |
| 2070 | 3070 | 30° | 1/2 | 1/2 | 5 | N |
| 2071 | 3071 | 30° | 1/2 | 1/2 | 6 2/ | N |
| 2072 | 3072 | 30° | 1/2 | 2/4 | 7 | N |
| 2073 | 3073 | 30° | 1/2 | 2/4 | 8 | N |
| 2074 | 3074 | 30° | 1/2 | 2/4 | 9 | N |
| 2075 | 3075 | 30° | 1/2 | 2/4 | 10 | N |
| 2076 | 3076 | 30° | 1/2 | 2/4 | 11 | N |
| 2077 | 3077 | 30° | 1/2 | 2/4 | 12 3/ | N |
| 2078 | 3078 | 30° | 2/2 | 2/2 | 2 | N |
| 2079 | 3079 | 30° | 2/2 | 2/2 | 3 | N |
| 2080 | 3080 | 30° | 2/2 | 2/2 | 4 | N |
| 2081 | 3081 | 30° | 2/2 | 2/2 | 5 | N |
| 2082 | 3082 | 30° | 2/2 | 2/2 | 6 2/ | N |
| 2083 | 3083 | 30° | 2/2 | 4/4 | 7 | N |
| 2084 | 3084 | 30° | 2/2 | 4/4 | 8 | N |
| 2085 | 3085 | 30° | 2/2 | 4/4 | 9 | N |
| 2086 | 3086 | 30° | 2/2 | 4/4 | 10 | N |

See footnotes at end of table.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-1 | Part no. M3786/28- Construction: F Style SR28-1 | Angle Of throw | No. of poles | No. of decks | Pos. Per pole | Switch Characteristic N or S |
|---|---|----------------------|--------------------|--------------------|---------------------|------------------------------------|
| 2087 | 3087 | 30° | 2/2 | 4/4 | 11 | N |
| 2088 | 3088 | 30° | 2/2 | 4/4 | 12 3/ | N |
| 2089 | 3089 | 30° | 3/2 | 3/2 | 2 | N |
| 2090 | 3090 | 30° | 3/2 | 3/2 | 3 | N |
| 2091 | 3091 | 30° | 3/2 | 3/2 | 4 | N |
| 2092 | 3092 | 30° | 3/2 | 3/2 | 5 | N |
| 2093 | 3093 | 30° | 3/2 | 3/2 | 6 2/ | N |
| 2094 | 3094 | 30° | 3/2 | 6/4 | 7 | N |
| 2095 | 3095 | 30° | 3/2 | 6/4 | 8 | N |
| 2096 | 3096 | 30° | 3/2 | 6/4 | 9 | N |
| 2097 | 3097 | 30° | 3/2 | 6/4 | 10 | N |
| 2098 | 3098 | 30° | 3/2 | 6/4 | 11 | N |
| 2099 | 3099 | 30° | 3/2 | 6/4 | 12 3/ | N |
| 2100 | 3100 | 30° | 4/2 | 4/2 | 2 | N |
| 2101 | 3101 | 30° | 4/2 | 4/2 | 3 | N |
| 2102 | 3102 | 30° | 4/2 | 4/2 | 4 | N |
| 2103 | 3103 | 30° | 4/2 | 4/2 | 5 | N |
| 2104 | 3104 | 30° | 4/2 | 4/2 | 6 2/ | N |
| 2105 | 3105 | 30° | 4/2 | 8/4 | 7 | N |
| 2106 | 3106 | 30° | 4/2 | 8/4 | 8 | N |
| 2107 | 3107 | 30° | 4/2 | 8/4 | 9 | N |
| 2108 | 3108 | 30° | 4/2 | 8/4 | 10 | N |
| 2109 | 3109 | 30° | 4/2 | 8/4 | 11 | N |
| 2110 | 3110 | 30° | 4/2 | 8/4 | 12 3/ | N |
| 2111 | 3111 | 30° | 5/2 | 5/2 | 2 | N |
| 2112 | 3112 | 30° | 5/2 | 5/2 | 3 | N |
| 2113 | 3113 | 30° | 5/2 | 5/2 | 4 | N |
| 2114 | 3114 | 30° | 5/2 | 5/2 | 5 | N |
| 2115 | 3115 | 30° | 5/2 | 5/2 | 6 2/ | N |
| 2116 | 3116 | 30° | 5/2 | 10/4 | 7 | N |
| 2117 | 3117 | 30° | 5/2 | 10/4 | 8 | N |
| 2118 | 3118 | 30° | 5/2 | 10/4 | 9 | N |
| 2119 | 3119 | 30° | 5/2 | 10/4 | 10 | N |
| 2120 | 3120 | 30° | 5/2 | 10/4 | 11 | N |
| 2121 | 3121 | 30° | 5/2 | 10/4 | 12 3/ | N |
| 2122 | 3122 | 30° | 6/2 | 6/2 | 2 | N |
| 2123 | 3123 | 30° | 6/2 | 6/2 | 3 | N |
| 2124 | 3124 | 30° | 6/2 | 6/2 | 4 | N |
| 2125 | 3125 | 30° | 6/2 | 6/2 | 5 | N |
| 2126 | 3126 | 30° | 6/2 | 6/2 | 6 2/ | N |
| 2127 | 3127 | 30° | 6/2 | 12/4 | 7 | N |
| 2128 | 3128 | 30° | 6/2 | 12/4 | 8 | N |
| 2129 | 3129 | 30° | 6/2 | 12/4 | 9 | N |
| 2130 | 3130 | 30° | 6/2 | 12/4 | 10 | N |

See footnotes at end of table.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-1 | Part no. M3786/28- Construction: F Style SR28-1 | Angle Of throw | No. of poles | No. of decks | Pos. Per pole | Switch Characteristic N or S |
|---|---|----------------------|--------------------|--------------------|---------------------|------------------------------------|
| 2131 | 3131 | 30° | 6/2 | 12/4 | 11 | N |
| 2132 | 3132 | 30° | 6/2 | 12/4 | 12 3/ | N |
| 2133 | 3133 | 30° | 1/1 | 1/1 | 2 | S |
| 2134 | 3134 | 30° | 1/1 | 1/1 | 3 | S |
| 2135 | 3135 | 30° | 1/1 | 1/1 | 4 | S |
| 2136 | 3136 | 30° | 1/1 | 1/1 | 5 | S |
| 2137 | 3137 | 30° | 1/1 | 1/1 | 6 2/ | S |
| 2138 | 3138 | 30° | 1/1 | 2/2 | 7 | S |
| 2139 | 3139 | 30° | 1/1 | 2/2 | 8 | S |
| 2140 | 3140 | 30° | 1/1 | 2/2 | 9 | S |
| 2141 | 3141 | 30° | 1/1 | 2/2 | 10 | S |
| 2142 | 3142 | 30° | 1/1 | 2/2 | 11 | S |
| 2143 | 3143 | 30° | 1/1 | 2/2 | 12 3/ | S |
| 2144 | 3144 | 30° | 2/1 | 2/1 | 2 | S |
| 2145 | 3145 | 30° | 2/1 | 2/1 | 3 | S |
| 2146 | 3146 | 30° | 2/1 | 2/1 | 4 | S |
| 2147 | 3147 | 30° | 2/1 | 2/1 | 5 | S |
| 2148 | 3148 | 30° | 2/1 | 2/1 | 6 2/ | S |
| 2149 | 3149 | 30° | 2/1 | 4/2 | 7 | S |
| 2150 | 3150 | 30° | 2/1 | 4/2 | 8 | S |
| 2151 | 3151 | 30° | 2/1 | 4/2 | 9 | S |
| 2152 | 3152 | 30° | 2/1 | 4/2 | 10 | S |
| 2153 | 3153 | 30° | 2/1 | 4/2 | 11 | S |
| 2154 | 3154 | 30° | 2/1 | 4/2 | 12 3/ | S |
| 2155 | 3155 | 30° | 3/1 | 3/1 | 2 | S |
| 2156 | 3156 | 30° | 3/1 | 3/1 | 3 | S |
| 2157 | 3157 | 30° | 3/1 | 3/1 | 4 | S |
| 2158 | 3158 | 30° | 3/1 | 3/1 | 5 | S |
| 2159 | 3159 | 30° | 3/1 | 3/1 | 6 2/ | S |
| 2160 | 3160 | 30° | 3/1 | 6/2 | 7 | S |
| 2161 | 3161 | 30° | 3/1 | 6/2 | 8 | S |
| 2162 | 3162 | 30° | 3/1 | 6/2 | 9 | S |
| 2163 | 3163 | 30° | 3/1 | 6/2 | 10 | S |
| 2164 | 3164 | 30° | 3/1 | 6/2 | 11 | S |
| 2165 | 3165 | 30° | 3/1 | 6/2 | 12 3/ | S |
| 2166 | 3166 | 30° | 4/1 | 4/1 | 2 | S |
| 2167 | 3167 | 30° | 4/1 | 4/1 | 3 | S |
| 2168 | 3168 | 30° | 4/1 | 4/1 | 4 | S |
| 2169 | 3169 | 30° | 4/1 | 4/1 | 5 | S |
| 2170 | 3170 | 30° | 4/1 | 4/1 | 6 2/ | S |
| 2171 | 3171 | 30° | 4/1 | 8/2 | 7 | S |
| 2172 | 3172 | 30° | 4/1 | 8/2 | 8 | S |
| 2173 | 3173 | 30° | 4/1 | 8/2 | 9 | S |
| 2174 | 3174 | 30° | 4/1 | 8/2 | 10 | S |

See footnotes at end of table.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-1 | Part no. M3786/28- Construction: F Style SR28-1 | Angle Of throw | No. of poles | No. of decks | Pos. Per pole | Switch Characteristic N or S |
|---|---|----------------------|--------------------|--------------------|---------------------|------------------------------------|
| 2175 | 3175 | 30° | 4/1 | 8/2 | 11 | S |
| 2176 | 3176 | 30° | 4/1 | 8/2 | 12 3/ | S |
| 2177 | 3177 | 30° | 5/1 | 5/1 | 2 | S |
| 2178 | 3178 | 30° | 5/1 | 5/1 | 3 | S |
| 2179 | 3179 | 30° | 5/1 | 5/1 | 4 | S |
| 2180 | 3180 | 30° | 5/1 | 5/1 | 5 | S |
| 2181 | 3181 | 30° | 5/1 | 5/1 | 6 2/ | S |
| 2182 | 3182 | 30° | 5/1 | 10/2 | 7 | S |
| 2183 | 3183 | 30° | 5/1 | 10/2 | 8 | S |
| 2184 | 3184 | 30° | 5/1 | 10/2 | 9 | S |
| 2185 | 3185 | 30° | 5/1 | 10/2 | 10 | S |
| 2186 | 3186 | 30° | 5/1 | 10/2 | 11 | S |
| 2187 | 3187 | 30° | 5/1 | 10/2 | 12 3/ | S |
| 2188 | 3188 | 30° | 6/1 | 6/1 | 2 | S |
| 2189 | 3189 | 30° | 6/1 | 6/1 | 3 | S |
| 2190 | 3190 | 30° | 6/1 | 6/1 | 4 | S |
| 2191 | 3191 | 30° | 6/1 | 6/1 | 5 | S |
| 2192 | 3192 | 30° | 6/1 | 6/1 | 6 2/ | S |
| 2193 | 3193 | 30° | 6/1 | 12/2 | 7 | S |
| 2194 | 3194 | 30° | 6/1 | 12/2 | 8 | S |
| 2195 | 3195 | 30° | 6/1 | 12/2 | 9 | S |
| 2196 | 3196 | 30° | 6/1 | 12/2 | 10 | S |
| 2197 | 3197 | 30° | 6/1 | 12/2 | 11 | S |
| 2198 | 3198 | 30° | 6/1 | 12/2 | 12 3/ | S |
| 2199 | 2199 | 30° | 1/2 | 1/2 | 2 | S |
| 2200 | 3200 | 30° | 1/2 | 1/2 | 3 | S |
| 2201 | 3201 | 30° | 1/2 | 1/2 | 4 | S |
| 2202 | 3202 | 30° | 1/2 | 1/2 | 5 | S |
| 2203 | 3203 | 30° | 1/2 | 1/2 | 6 2/ | S |
| 2204 | 3204 | 30° | 1/2 | 2/4 | 7 | S |
| 2205 | 3205 | 30° | 1/2 | 2/4 | 8 | S |
| 2206 | 3206 | 30° | 1/2 | 2/4 | 9 | S |
| 2207 | 3207 | 30° | 1/2 | 2/4 | 10 | S |
| 2208 | 3208 | 30° | 1/2 | 2/4 | 11 | S |
| 2209 | 3209 | 30° | 1/2 | 2/4 | 12 3/ | S |
| 2210 | 3210 | 30° | 2/2 | 2/2 | 2 | S |
| 2211 | 3211 | 30° | 2/2 | 2/2 | 3 | S |
| 2212 | 3212 | 30° | 2/2 | 2/2 | 4 | S |
| 2213 | 3213 | 30° | 2/2 | 2/2 | 5 | S |
| 2214 | 3214 | 30° | 2/2 | 2/2 | 6 2/ | S |
| 2215 | 3215 | 30° | 2/2 | 4/4 | 7 | S |
| 2216 | 3216 | 30° | 2/2 | 4/4 | 8 | S |
| 2217 | 3217 | 30° | 2/2 | 4/4 | 9 | S |

See footnotes at end of table.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-1 | Part no. M3786/28- Construction: F Style SR28-1 | Angle Of throw | No. of poles | No. of decks | Pos. Per pole | Switch Characteristic N or S |
|---|---|----------------------|--------------------|--------------------|---------------------|------------------------------------|
| 2218 | 3218 | 30° | 2/2 | 4/4 | 10 | S |
| 2219 | 3219 | 30° | 2/2 | 4/4 | 11 | S |
| 2220 | 3220 | 30° | 2/2 | 4/4 | 12 3/ | S |
| 2221 | 3221 | 30° | 3/2 | 3/2 | 2 | S |
| 2222 | 3222 | 30° | 3/2 | 3/2 | 3 | S |
| 2223 | 3223 | 30° | 3/2 | 3/2 | 4 | S |
| 2224 | 3224 | 30° | 3/2 | 3/2 | 5 | S |
| 2225 | 3225 | 30° | 3/2 | 3/2 | 6 2/ | S |
| 2226 | 3226 | 30° | 3/2 | 6/4 | 7 | S |
| 2227 | 3227 | 30° | 3/2 | 6/4 | 8 | S |
| 2228 | 3228 | 30° | 3/2 | 6/4 | 9 | S |
| 2229 | 3229 | 30° | 3/2 | 6/4 | 10 | S |
| 2230 | 3230 | 30° | 3/2 | 6/4 | 11 | S |
| 2231 | 3231 | 30° | 3/2 | 6/4 | 12 3/ | S |
| 2232 | 3232 | 30° | 4/2 | 4/2 | 2 | S |
| 2233 | 3233 | 30° | 4/2 | 4/2 | 3 | S |
| 2234 | 3234 | 30° | 4/2 | 4/2 | 4 | S |
| 2235 | 3235 | 30° | 4/2 | 4/2 | 5 | S |
| 2236 | 3236 | 30° | 4/2 | 4/2 | 6 2/ | S |
| 2237 | 3237 | 30° | 4/2 | 8/4 | 7 | S |
| 2238 | 3238 | 30° | 4/2 | 8/4 | 8 | S |
| 2239 | 3239 | 30° | 4/2 | 8/4 | 9 | S |
| 2240 | 3240 | 30° | 4/2 | 8/4 | 10 | S |
| 2241 | 3241 | 30° | 4/2 | 8/4 | 11 | S |
| 2242 | 3242 | 30° | 4/2 | 8/4 | 12 3/ | S |
| 2243 | 3243 | 30° | 5/2 | 5/2 | 2 | S |
| 2244 | 3244 | 30° | 5/2 | 5/2 | 3 | S |
| 2245 | 3245 | 30° | 5/2 | 5/2 | 4 | S |
| 2246 | 3246 | 30° | 5/2 | 5/2 | 5 | S |
| 2247 | 3247 | 30° | 5/2 | 5/2 | 6 2/ | S |
| 2248 | 3248 | 30° | 5/2 | 10/4 | 7 | S |
| 2249 | 3249 | 30° | 5/2 | 10/4 | 8 | S |
| 2250 | 3250 | 30° | 5/2 | 10/4 | 9 | S |
| 2251 | 3251 | 30° | 5/2 | 5/2 | 10 | S |
| 2252 | 3252 | 30° | 5/2 | 5/2 | 11 | S |
| 2253 | 3253 | 30° | 5/2 | 5/2 | 12 3/ | S |
| 2254 | 3254 | 30° | 6/2 | 6/2 | 2 | S |
| 2255 | 3255 | 30° | 6/2 | 6/2 | 3 | S |
| 2256 | 3256 | 30° | 6/2 | 6/2 | 4 | S |
| 2257 | 3257 | 30° | 6/2 | 6/2 | 5 | S |
| 2258 | 3258 | 30° | 6/2 | 6/2 | 6 2/ | S |
| 2259 | 3259 | 30° | 6/2 | 12/4 | 7 | S |
| 2260 | 3260 | 30° | 6/2 | 12/4 | 8 | S |

See footnotes at end of table.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-1 | Part no. M3786/28- Construction: F Style SR28-1 | Angle of throw | No. of poles | No. of decks | Pos. per pole | Switch Characteristic N or S |
|---|---|----------------------|--------------------|--------------------|---------------------|------------------------------------|
| 2261 | 3261 | 30° | 6/2 | 12/4 | 9 | S |
| 2262 | 3262 | 30° | 6/2 | 12/4 | 10 | S |
| 2263 | 3263 | 30° | 6/2 | 12/4 | 11 | S |
| 2264 | 3264 | 30° | 6/2 | 12/4 | 12 <u>3/</u> | S |

- 1/ First number is for front switch (.250 shaft); second number is for rear switch (.125 shaft).
 2/ May be used for all 2 to 6 position applications using field adjustable stops that are supplied.
 3/ Continuous rotation-may be used for all 7 to 12 position applications using field adjustable stops that are supplied.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-3 | Part no. M3786/28- Construction: F Style SR28-3 | Angle of throw | No. of poles | No. of decks | Pos. per pole | Switch Characteristic N or S |
|---|---|----------------------|--------------------|--------------------|---------------------|------------------------------------|
| 4001 | 5001 | 30° | 1 | 1 | 2 | N |
| 4002 | 5002 | 30° | 1 | 1 | 3 | N |
| 4003 | 5003 | 30° | 1 | 1 | 4 | N |
| 4004 | 5004 | 30° | 1 | 1 | 5 | N |
| 4005 | 5005 | 30° | 1 | 1 | 6 <u>1/</u> | N |
| 4006 | 5006 | 30° | 1 | 2 | 7 | N |
| 4007 | 5007 | 30° | 1 | 2 | 8 | N |
| 4008 | 5008 | 30° | 1 | 2 | 9 | N |
| 4009 | 5009 | 30° | 1 | 2 | 10 | N |
| 4010 | 5010 | 30° | 1 | 2 | 11 | N |
| 4011 | 5011 | 30° | 1 | 2 | 12 <u>2/</u> | N |
| 4012 | 5012 | 30° | 2 | 2 | 2 | N |
| 4013 | 5013 | 30° | 2 | 2 | 3 | N |
| 4014 | 5014 | 30° | 2 | 2 | 4 | N |
| 4015 | 5015 | 30° | 2 | 2 | 5 | N |
| 4016 | 5016 | 30° | 2 | 2 | 6 <u>1/</u> | N |
| 4017 | 5017 | 30° | 2 | 4 | 7 | N |
| 4018 | 5018 | 30° | 2 | 4 | 8 | N |
| 4019 | 5019 | 30° | 2 | 4 | 9 | N |
| 4020 | 5020 | 30° | 2 | 4 | 10 | N |
| 4021 | 5021 | 30° | 2 | 4 | 11 | N |
| 4022 | 5022 | 30° | 2 | 4 | 12 <u>2/</u> | N |
| 4023 | 5023 | 30° | 3 | 3 | 2 | N |
| 4024 | 5024 | 30° | 3 | 3 | 3 | N |
| 4025 | 5025 | 30° | 3 | 3 | 4 | N |
| 4026 | 5026 | 30° | 3 | 3 | 5 | N |
| 4027 | 5027 | 30° | 3 | 3 | 6 <u>1/</u> | N |

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-3 | Part no. M3786/28- Construction: F Style SR28-3 | Angle of throw | No. of poles | No. of decks | Pos. per pole | Switch Characteristic N or S |
|---|---|----------------------|--------------------|--------------------|---------------------|------------------------------------|
| 4028 | 5028 | 30° | 3 | 6 | 7 | N |
| 4029 | 5029 | 30° | 3 | 6 | 8 | N |
| 4030 | 5030 | 30° | 3 | 6 | 9 | N |
| 4031 | 5031 | 30° | 3 | 6 | 10 | N |
| 4032 | 5032 | 30° | 3 | 6 | 11 | N |
| 4033 | 5033 | 30° | 3 | 6 | 12 2/ | N |
| 4034 | 5034 | 30° | 4 | 4 | 2 | N |
| 4035 | 5035 | 30° | 4 | 4 | 3 | N |
| 4036 | 5036 | 30° | 4 | 4 | 4 | N |
| 4037 | 5037 | 30° | 4 | 4 | 5 | N |
| 4038 | 5038 | 30° | 4 | 4 | 6 1/ | N |
| 4039 | 5039 | 30° | 4 | 8 | 7 | N |
| 4040 | 5040 | 30° | 4 | 8 | 8 | N |
| 4041 | 5041 | 30° | 4 | 8 | 9 | N |
| 4042 | 5042 | 30° | 4 | 8 | 10 | N |
| 4043 | 5043 | 30° | 4 | 8 | 11 | N |
| 4044 | 5044 | 30° | 4 | 8 | 12 2/ | N |
| 4045 | 5045 | 30° | 5 | 5 | 2 | N |
| 4046 | 5046 | 30° | 5 | 5 | 3 | N |
| 4047 | 5047 | 30° | 5 | 5 | 4 | N |
| 4048 | 5048 | 30° | 5 | 5 | 5 | N |
| 4049 | 5049 | 30° | 5 | 5 | 6 1/ | N |
| 4050 | 5050 | 30° | 5 | 10 | 7 | N |
| 4051 | 5051 | 30° | 5 | 10 | 8 | N |
| 4052 | 5052 | 30° | 5 | 10 | 9 | N |
| 4053 | 5053 | 30° | 5 | 10 | 10 | N |
| 4054 | 5054 | 30° | 5 | 10 | 11 | N |
| 4055 | 5055 | 30° | 5 | 10 | 12 2/ | N |
| 4056 | 5056 | 30° | 6 | 6 | 2 | N |
| 4057 | 5057 | 30° | 6 | 6 | 3 | N |
| 4058 | 5058 | 30° | 6 | 6 | 4 | N |
| 4059 | 5059 | 30° | 6 | 6 | 5 | N |
| 4060 | 5060 | 30° | 6 | 6 | 6 1/ | N |
| 4061 | 5061 | 30° | 6 | 12 | 7 | N |
| 4062 | 5062 | 30° | 6 | 12 | 8 | N |
| 4063 | 5063 | 30° | 6 | 12 | 9 | N |
| 4064 | 5064 | 30° | 6 | 12 | 10 | N |
| 4065 | 5065 | 30° | 6 | 12 | 11 | N |
| 4066 | 5066 | 30° | 6 | 12 | 12 2/ | N |
| 4067 | 5067 | 30° | 1 | 1 | 2 | S |
| 4068 | 5068 | 30° | 1 | 1 | 3 | S |
| 4069 | 5069 | 30° | 1 | 1 | 4 | S |
| 4070 | 5070 | 30° | 1 | 1 | 5 | S |

See footnotes at end of table.

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-3 | Part no. M3786/28- Construction: F Style SR28-3 | Angle of throw | No. of poles | No. of decks | Pos. per pole | Switch Characteristic N or S |
|--|---|----------------------|--------------------|--------------------|---------------------|------------------------------------|
| 4071 4072 4073 4074 4075 4076 4077 4078 4079 4080 | 5071 | 30° | 1 | 1 | 6 1/ | S |
| | 5072 | 30° | 1 | 2 | 7 | S |
| | 5073 | 30° | 1 | 2 | 8 | S |
| | 5074 | 30° | 1 | 2 | 9 | S |
| | 5075 | 30° | 1 | 2 | 10 | S |
| | 5076 | 30° | 1 | 2 | 11 | S |
| | 5077 | 30° | 1 | 2 | 12 2/ | S |
| | 5078 | 30° | 2 | 2 | 2 | S |
| | 5079 | 30° | 2 | 2 | 3 | S |
| | 5080 | 30° | 2 | 2 | 4 | S |
| 4081 4082 4083 4084 4085 4086 4087 4088 4089 4090 | 5081 | 30° | 2 | 2 | 5 | S |
| | 5082 | 30° | 2 | 2 | 6 1/ | S |
| | 5083 | 30° | 2 | 4 | 7 | S |
| | 5084 | 30° | 2 | 4 | 8 | S |
| | 5085 | 30° | 2 | 4 | 9 | S |
| | 5086 | 30° | 2 | 4 | 10 | S |
| | 5087 | 30° | 2 | 4 | 11 | S |
| | 5088 | 30° | 2 | 4 | 12 2/ | S |
| | 5089 | 30° | 3 | 3 | 2 | S |
| | 5090 | 30° | 3 | 3 | 3 | S |
| 4091 4092 4093 4094 4095 4096 4097 4098 4099 4100 | 5091 | 30° | 3 | 3 | 4 | S |
| | 5092 | 30° | 3 | 3 | 5 | S |
| | 5093 | 30° | 3 | 3 | 6 1/ | S |
| | 5094 | 30° | 3 | 6 | 7 | S |
| | 5095 | 30° | 3 | 6 | 8 | S |
| | 5096 | 30° | 3 | 6 | 9 | S |
| | 5097 | 30° | 3 | 6 | 10 | S |
| | 5098 | 30° | 3 | 6 | 11 | S |
| | 5099 | 30° | 3 | 6 | 12 2/ | S |
| | 5100 | 30° | 4 | 4 | 2 | S |
| 4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 | 5101 | 30° | 4 | 4 | 3 | S |
| | 5102 | 30° | 4 | 4 | 4 | S |
| | 5103 | 30° | 4 | 4 | 5 | S |
| | 5104 | 30° | 4 | 4 | 6 1/ | S |
| | 5105 | 30° | 4 | 8 | 7 | S |
| | 5106 | 30° | 4 | 8 | 8 | S |
| | 5107 | 30° | 4 | 8 | 9 | S |
| | 5108 | 30° | 4 | 8 | 10 | S |
| | 5109 | 30° | 4 | 8 | 11 | S |
| | 5110 | 30° | 4 | 8 | 12 2/ | S |
| 4111 4112 4113 4114 4115 | 5111 | 30° | 5 | 5 | 2 | S |
| | 5112 | 30° | 5 | 5 | 3 | S |
| | 5113 | 30° | 5 | 5 | 4 | S |
| | 5114 | 30° | 5 | 5 | 5 | S |
| | 5115 | 30° | 5 | 5 | 6 1/ | S |

TABLE IV. Switching characteristics and part numbers - Continued.

| Part no. M3786/28- Construction: E Style SR28-3 | Part no. M3786/28- Construction: F Style SR28-3 | Angle of throw | No. of poles | No. of decks | Pos. per pole | Switch Characteristic N or S |
|---|---|----------------------|--------------------|--------------------|---------------------|------------------------------------|
| 4116 | 5116 | 30° | 5 | 10 | 7 | S |
| 4117 | 5117 | 30° | 5 | 10 | 8 | S |
| 4118 | 5118 | 30° | 5 | 10 | 9 | S |
| 4119 | 5119 | 30° | 5 | 10 | 10 | S |
| 4120 | 5120 | 30° | 5 | 10 | 11 | S |
| 4121 | 5121 | 30° | 5 | 10 | 12 <u>2/</u> | S |
| 4122 | 5122 | 30° | 6 | 6 | 2 | S |
| 4123 | 5123 | 30° | 6 | 6 | 3 | S |
| 4124 | 5124 | 30° | 6 | 6 | 4 | S |
| 4125 | 5125 | 30° | 6 | 6 | 5 | S |
| 4126 | 5126 | 30° | 6 | 6 | 6 <u>1/</u> | S |
| 4127 | 5127 | 30° | 6 | 12 | 7 | S |
| 4128 | 5128 | 30° | 6 | 12 | 8 | S |
| 4129 | 5129 | 30° | 6 | 12 | 9 | S |
| 4130 | 5130 | 30° | 6 | 12 | 10 | S |
| 4131 | 5131 | 30° | 6 | 12 | 11 | S |
| 4132 | 5132 | 30° | 6 | 12 | 12 <u>2/</u> | S |

1/ May be used for all 2 to 6 position applications using field adjustable stops that are supplied.

2/ Continuous rotation-may be used for all 7 to 12 position applications using field adjustable stops that are supplied.

Referenced Documents:

MIL-DTL-3786

MIL-PRF-94/3

MIL-PRF-94/5

MS25082

NASM35333

MIL-STD-202

Custodians:

Army - CR

Navy - EC

Air Force - 11

DLA - CC

Preparing activity:

DLA - CC

(Project 5930-1868)

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