

# PERFORMANCE SPECIFICATION SHEET

## CIRCUIT BREAKERS, MAGNETIC, UNSEALED TRIP-FREE, SINGLE POLE, AUXILIARY CONTACTS (0.2 TO 50 AMPERES)

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

The requirements for acquiring the product described herein shall consist of this specification sheet and [MIL-PRF-55629](#).

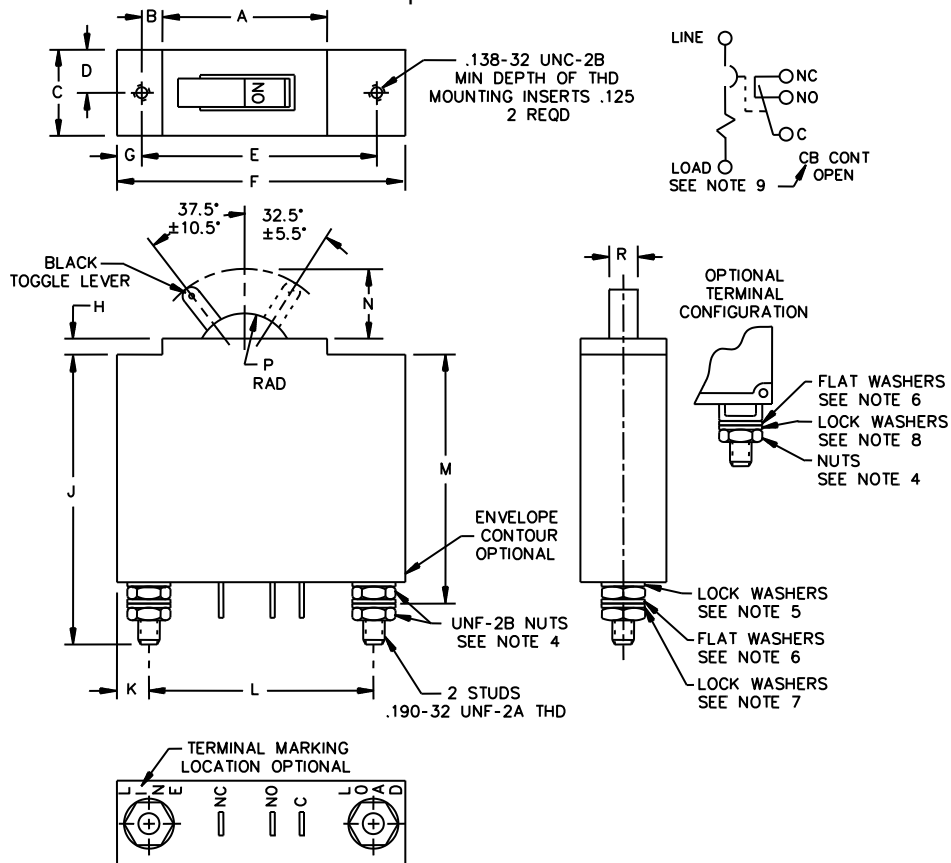


FIGURE 1. Dimensions and configurations (configuration 1). 1/

1/ This circuit breaker is obsolete and kept for reference only. For an alternative circuit breaker, see [figure 2](#) (configuration 2) and table II.



| Ltr | Inches |        | mm    |         |
|-----|--------|--------|-------|---------|
|     | Min    | Max    | Min   | Max     |
| A   | 1.420  | 1.470  | 36.07 | 37.34   |
| B   | .149   | .211   | 3.78  | 5.36    |
| C   | .730   | .780   | 18.54 | 19.81   |
| D   | .359   | .391   | 9.12  | 9.93    |
| E   | 2.046  | 2.078  | 51.97 | 52.78   |
| F   | ---    | 2.530  | ---   | 64.26   |
| G   | .187   | .249   | 4.75  | 6.32    |
| H   | .109   | .171   | 2.77  | 4.34    |
| J   | ---    | 2.800  | ---   | 71.12   |
| K   | .249   | .311   | 6.32  | 7.90    |
| L   | 1.660  | 1.960  | 42.16 | 49.78   |
| M   | ---    | 2.340  | ---   | 59.44   |
| N   | .519   | .699   | 13.18 | 17.75   |
| P   | ---    | .427 R | ---   | 10.84 R |
| R   | .230   | .270   | 5.84  | 6.86    |

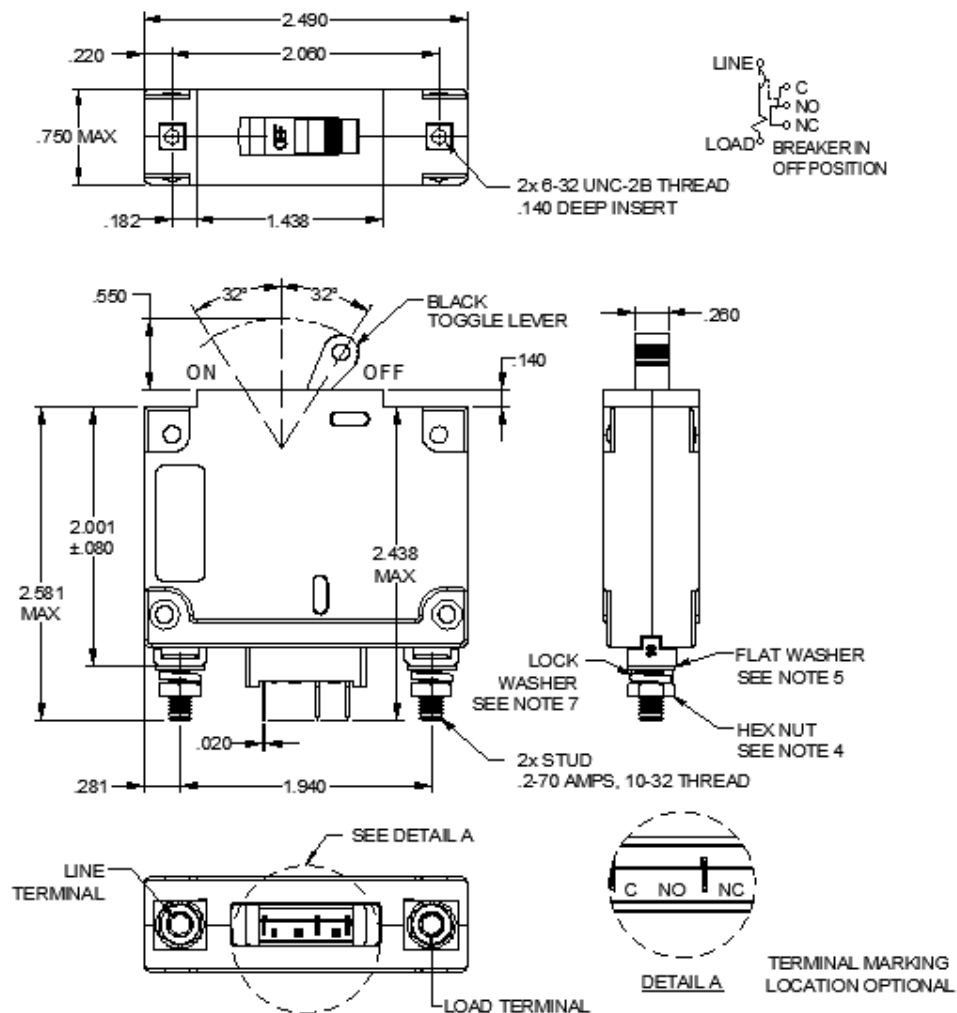
## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is  $\pm 0.031$  (0.79 mm).
4. Nut-hex: .190 - 32 UNF-2B, .313/.303 across flats, .109  $\pm$  .010 thick. Material: Brass (ASTM-B121/B121M or equivalent); tin plated (ASTM-B545 or equivalent); or stainless steel, for each terminal.
5. Captive washer nut assembly of brass nut, bronze washer, tin plated; or lockwasher, internal or external tooth, NASM35333-107 or MS35335-88 or equivalent.
6. Washer, flat: .378/.368 O.D., .204/.190 I.D., .032  $\pm$  .005 thick. Material: Brass (ASTM-B121/B121M or equivalent), tin plated (ASTM-B545 or equivalent), or phosphor bronze, composition (ASTM-B139/B139M or equivalent).
7. Auxiliary contact terminals shall provide for soldered connections and shall be located on the back side of the circuit breaker (same surface as main terminals) otherwise location, style, and design are optional.
8. Lockwasher, Split: NASM35338-138 or equivalent.
9. Physical item marking of the words "LOAD" and "CB CONT OPEN" is optional.

FIGURE 1. Dimensions and configurations (configuration 1) - Continued. 1/

1/ This circuit breaker is obsolete and kept for reference only. For an alternative circuit breaker, see figure 2 (configuration 2) and table II.

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NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is  $\pm .015$  (0.38 mm).
4. Nut-hex: .190 - 32 UNF-2B .313/.303 across flats, .109  $\pm$  .010 thick Material, [ASTM-B16/B16M](#) or equivalent, tin plated per [ASTM-B545](#) or equivalent; or stainless steel, for each terminal.
5. Washer, flat: .378/.368 O.D., .204/.190 I.D., .032  $\pm$  .005 thick. Material: Brass ([ASTM-B121/B121M](#) or equivalent), tin plated ([ASTM-B545](#) or equivalent), or phosphor bronze, composition ([ASTM B139/B139M](#) or equivalent).
6. Auxiliary contact terminals shall provide for soldered connections and shall be located on the back side of the circuit breaker (same surface as main terminals) otherwise location, style and design are optional.
7. Lockwasher, Split: [NASM35338-138](#) or equivalent.
8. Physical item marking of the words "LOAD" and "CB CONT OPEN" is optional.
9. For configuration 2, including mixed pole construction, an "L" has been added to the end of the dash number.

FIGURE 2. Dimensions and configurations (configuration 2).

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### REQUIREMENTS

Dimensions and configuration: See [figure 1](#) and [figure 2](#).

Current ratings: See [table I](#) and [table II](#).

Voltage ratings: See [table III](#) through [table VIII](#). 240 V ac breakers are designed also for use at 120 V ac.

High inrush: Applicable to time delays K, L, M, N, P, R, S, and T. Non-time delays H, I, and J are not high inrush delays.

Tripping-time delays: See [table III](#) through [table VIII](#).

Terminal and mounting hardware: See [figure 1](#) and [figure 2](#).

Terminals: See [figure 1](#) and [figure 2](#).

Auxiliary contact terminals: Contact capacity shall be 10 amperes at 250 volts 60/400 Hz and 2 amperes resistive, 1 ampere inductive to 50 V dc.

Actuator strength: 25 pounds.

Actuator operating force: 4 pounds, maximum.

Terminal strength:

Applied load: 30 pounds.

Applied torque: 22 inch-pounds.

Vibration: Energized current shall be 90 percent for characteristics H, I, and J.

Shock: Energized current shall be 90 percent for characteristics H, I, and J.

Interrupting capacities:

2,000 amperes at 50 V dc.

2,000 amperes at 120 V ac, 60 Hz.

1,500 amperes at 120 V ac, 400 Hz.

1,000 amperes at 240 V ac, 60 and 400 Hz.

Part or Identifying Number (PIN): M55629/2-(dash number from [table I](#) or [table II](#)).

TABLE I. Circuit breaker dash numbers and applicable characteristics (configuration 1). 1/

| Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables III, IV, V and VIII) | Resistance or impedance ohms (max.) | Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables III, IV, V and VIII) | Resistance or impedance ohms (max.) |
|----------|--------------------------|----------------------------------------------------------------------------------------|-------------------------------------|----------|--------------------------|----------------------------------------------------------------------------------------|-------------------------------------|
| 001      | 0.2                      | A                                                                                      | 32                                  | 269      | 0.5                      | P                                                                                      | 12                                  |
| 002      | 0.2                      | B                                                                                      | 32                                  | 270      | 0.5                      | R                                                                                      | 12                                  |
| 003      | 0.2                      | C                                                                                      | 34                                  | 271      | 0.5                      | S                                                                                      | 12                                  |
| 004      | 0.2                      | D                                                                                      | 34                                  | 428      | 0.5                      | T                                                                                      | 6                                   |
| 005      | 0.2                      | E                                                                                      | 72                                  | 150      | 0.75                     | A                                                                                      | 3                                   |
| 006      | 0.2                      | F                                                                                      | 72                                  | 151      | 0.75                     | B                                                                                      | 3                                   |
| 007      | 0.2                      | G                                                                                      | 72                                  | 153      | 0.75                     | C                                                                                      | 3                                   |
| 134      | 0.2                      | H                                                                                      | 32                                  | 154      | 0.75                     | D                                                                                      | 3                                   |
| 135      | 0.2                      | I                                                                                      | 34                                  | 156      | 0.75                     | E                                                                                      | 7                                   |
| 136      | 0.2                      | J                                                                                      | 72                                  | 157      | 0.75                     | F                                                                                      | 7                                   |
| 251      | 0.2                      | K                                                                                      | 32                                  | 158      | 0.75                     | G                                                                                      | 7                                   |
| 252      | 0.2                      | L                                                                                      | 32                                  | 152      | 0.75                     | H                                                                                      | 3                                   |
| 253      | 0.2                      | M                                                                                      | 34                                  | 155      | 0.75                     | I                                                                                      | 3                                   |
| 254      | 0.2                      | N                                                                                      | 34                                  | 159      | 0.75                     | J                                                                                      | 7                                   |
| 255      | 0.2                      | P                                                                                      | 72                                  | 272      | 0.75                     | K                                                                                      | 3                                   |
| 256      | 0.2                      | R                                                                                      | 72                                  | 273      | 0.75                     | L                                                                                      | 3                                   |
| 257      | 0.2                      | S                                                                                      | 72                                  | 274      | 0.75                     | M                                                                                      | 3                                   |
| 426      | 0.2                      | T                                                                                      | 34                                  | 275      | 0.75                     | N                                                                                      | 3                                   |
| 137      | 0.25                     | A                                                                                      | 21                                  | 276      | 0.75                     | P                                                                                      | 7                                   |
| 138      | 0.25                     | B                                                                                      | 21                                  | 277      | 0.75                     | R                                                                                      | 7                                   |
| 140      | 0.25                     | C                                                                                      | 23                                  | 278      | 0.75                     | S                                                                                      | 7                                   |
| 141      | 0.25                     | D                                                                                      | 23                                  | 429      | 0.75                     | T                                                                                      | 3                                   |
| 143      | 0.25                     | E                                                                                      | 43                                  | 015      | 1.0                      | A                                                                                      | 2                                   |
| 144      | 0.25                     | F                                                                                      | 43                                  | 016      | 1.0                      | B                                                                                      | 2                                   |
| 145      | 0.25                     | G                                                                                      | 43                                  | 017      | 1.0                      | C                                                                                      | 2                                   |
| 139      | 0.25                     | H                                                                                      | 21                                  | 018      | 1.0                      | D                                                                                      | 2                                   |
| 142      | 0.25                     | I                                                                                      | 23                                  | 019      | 1.0                      | E                                                                                      | 4                                   |
| 146      | 0.25                     | J                                                                                      | 43                                  | 020      | 1.0                      | F                                                                                      | 4                                   |
| 258      | 0.25                     | K                                                                                      | 21                                  | 021      | 1.0                      | G                                                                                      | 4                                   |
| 259      | 0.25                     | L                                                                                      | 21                                  | 160      | 1.0                      | H                                                                                      | 2                                   |
| 260      | 0.25                     | M                                                                                      | 23                                  | 161      | 1.0                      | I                                                                                      | 2                                   |
| 261      | 0.25                     | N                                                                                      | 23                                  | 162      | 1.0                      | J                                                                                      | 4                                   |
| 262      | 0.25                     | P                                                                                      | 43                                  | 279      | 1.0                      | K                                                                                      | 2                                   |
| 263      | 0.25                     | R                                                                                      | 43                                  | 280      | 1.0                      | L                                                                                      | 2                                   |
| 264      | 0.25                     | S                                                                                      | 43                                  | 281      | 1.0                      | M                                                                                      | 2                                   |
| 427      | 0.25                     | T                                                                                      | 23                                  | 282      | 1.0                      | N                                                                                      | 2                                   |
| 008      | 0.5                      | A                                                                                      | 6                                   | 283      | 1.0                      | P                                                                                      | 4                                   |
| 009      | 0.5                      | B                                                                                      | 6                                   | 284      | 1.0                      | R                                                                                      | 4                                   |
| 010      | 0.5                      | C                                                                                      | 6                                   | 285      | 1.0                      | S                                                                                      | 4                                   |
| 011      | 0.5                      | D                                                                                      | 6                                   | 430      | 1.0                      | T                                                                                      | 2                                   |
| 012      | 0.5                      | E                                                                                      | 12                                  | 163      | 1.5                      | A                                                                                      | .9                                  |
| 013      | 0.5                      | F                                                                                      | 12                                  | 164      | 1.5                      | B                                                                                      | .9                                  |
| 014      | 0.5                      | G                                                                                      | 12                                  | 166      | 1.5                      | C                                                                                      | .9                                  |
| 147      | 0.5                      | H                                                                                      | 6                                   | 167      | 1.5                      | D                                                                                      | .9                                  |
| 148      | 0.5                      | I                                                                                      | 6                                   | 169      | 1.5                      | E                                                                                      | 2                                   |
| 149      | 0.5                      | J                                                                                      | 12                                  | 170      | 1.5                      | F                                                                                      | 2                                   |
| 265      | 0.5                      | K                                                                                      | 6                                   | 171      | 1.5                      | G                                                                                      | 2                                   |
| 266      | 0.5                      | L                                                                                      | 6                                   | 165      | 1.5                      | H                                                                                      | .9                                  |
| 267      | 0.5                      | M                                                                                      | 6                                   | 168      | 1.5                      | I                                                                                      | .9                                  |
| 268      | 0.5                      | N                                                                                      | 6                                   | 172      | 1.5                      | J                                                                                      | 2                                   |

1/ This circuit breaker is obsolete and kept for reference only. For an alternative circuit breaker, see [figure 2](#) (configuration 2) and [table II](#).

TABLE I. Circuit breaker dash numbers and applicable characteristics (configuration 1) - Continued. 1/

| Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables III, IV, V and VIII) | Resistance or impedance ohms (max.) | Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables III, IV, V and VIII) | Resistance or impedance ohms (max.) |
|----------|--------------------------|----------------------------------------------------------------------------------------|-------------------------------------|----------|--------------------------|----------------------------------------------------------------------------------------|-------------------------------------|
| 286      | 1.5                      | K                                                                                      | .9                                  | 035      | 3.0                      | G                                                                                      | .5                                  |
| 287      | 1.5                      | L                                                                                      | .9                                  | 186      | 3.0                      | H                                                                                      | .3                                  |
| 288      | 1.5                      | M                                                                                      | .9                                  | 187      | 3.0                      | I                                                                                      | .3                                  |
| 289      | 1.5                      | N                                                                                      | .9                                  | 188      | 3.0                      | J                                                                                      | .5                                  |
| 290      | 1.5                      | P                                                                                      | 2                                   | 307      | 3.0                      | K                                                                                      | .3                                  |
| 291      | 1.5                      | R                                                                                      | 2                                   | 308      | 3.0                      | L                                                                                      | .3                                  |
| 292      | 1.5                      | S                                                                                      | 2                                   | 309      | 3.0                      | M                                                                                      | .3                                  |
| 431      | 2.0                      | T                                                                                      | .9                                  | 310      | 3.0                      | N                                                                                      | .3                                  |
| 022      | 2.0                      | A                                                                                      | .5                                  | 311      | 3.0                      | P                                                                                      | .5                                  |
| 023      | 2.0                      | B                                                                                      | .5                                  | 312      | 3.0                      | R                                                                                      | .5                                  |
| 024      | 2.0                      | C                                                                                      | .5                                  | 313      | 3.0                      | S                                                                                      | .5                                  |
| 025      | 2.0                      | D                                                                                      | .5                                  | 434      | 3.0                      | T                                                                                      | .3                                  |
| 026      | 2.0                      | E                                                                                      | .8                                  | 189      | 3.5                      | A                                                                                      | .15                                 |
| 027      | 2.0                      | F                                                                                      | .8                                  | 190      | 3.5                      | B                                                                                      | .15                                 |
| 028      | 2.0                      | G                                                                                      | .8                                  | 192      | 3.5                      | C                                                                                      | .15                                 |
| 173      | 2.0                      | H                                                                                      | .5                                  | 193      | 3.5                      | D                                                                                      | .15                                 |
| 174      | 2.0                      | I                                                                                      | .5                                  | 195      | 3.5                      | E                                                                                      | .35                                 |
| 175      | 2.0                      | J                                                                                      | .8                                  | 196      | 3.5                      | F                                                                                      | .35                                 |
| 293      | 2.0                      | K                                                                                      | .5                                  | 197      | 3.5                      | G                                                                                      | .35                                 |
| 294      | 2.0                      | L                                                                                      | .5                                  | 191      | 3.5                      | H                                                                                      | .15                                 |
| 295      | 2.0                      | M                                                                                      | .5                                  | 194      | 3.5                      | I                                                                                      | .15                                 |
| 296      | 2.0                      | N                                                                                      | .5                                  | 198      | 3.5                      | J                                                                                      | .35                                 |
| 297      | 2.0                      | P                                                                                      | .8                                  | 314      | 3.5                      | K                                                                                      | .15                                 |
| 298      | 2.0                      | R                                                                                      | .8                                  | 315      | 3.5                      | L                                                                                      | .15                                 |
| 299      | 2.0                      | S                                                                                      | .8                                  | 316      | 3.5                      | M                                                                                      | .15                                 |
| 432      | 2.0                      | T                                                                                      | .5                                  | 317      | 3.5                      | N                                                                                      | .15                                 |
| 176      | 2.5                      | A                                                                                      | .35                                 | 318      | 3.5                      | P                                                                                      | .35                                 |
| 177      | 2.5                      | B                                                                                      | .35                                 | 319      | 3.5                      | R                                                                                      | .35                                 |
| 179      | 2.5                      | C                                                                                      | .35                                 | 320      | 3.5                      | S                                                                                      | .35                                 |
| 180      | 2.5                      | D                                                                                      | .35                                 | 435      | 3.5                      | T                                                                                      | .15                                 |
| 182      | 2.5                      | E                                                                                      | .6                                  | 036      | 4.0                      | A                                                                                      | .1                                  |
| 183      | 2.5                      | F                                                                                      | .6                                  | 037      | 4.0                      | B                                                                                      | .1                                  |
| 184      | 2.5                      | G                                                                                      | .6                                  | 038      | 4.0                      | C                                                                                      | .1                                  |
| 178      | 2.5                      | H                                                                                      | .35                                 | 039      | 4.0                      | D                                                                                      | .1                                  |
| 181      | 2.5                      | I                                                                                      | .35                                 | 040      | 4.0                      | E                                                                                      | .3                                  |
| 185      | 2.5                      | J                                                                                      | .6                                  | 041      | 4.0                      | F                                                                                      | .3                                  |
| 300      | 2.5                      | K                                                                                      | .35                                 | 042      | 4.0                      | G                                                                                      | .3                                  |
| 301      | 2.5                      | L                                                                                      | .35                                 | 199      | 4.0                      | H                                                                                      | .1                                  |
| 302      | 2.5                      | M                                                                                      | .35                                 | 200      | 4.0                      | I                                                                                      | .1                                  |
| 303      | 2.5                      | N                                                                                      | .35                                 | 201      | 4.0                      | J                                                                                      | .3                                  |
| 304      | 2.5                      | P                                                                                      | .6                                  | 321      | 4.0                      | K                                                                                      | .1                                  |
| 305      | 2.5                      | R                                                                                      | .6                                  | 322      | 4.0                      | L                                                                                      | .1                                  |
| 306      | 2.5                      | S                                                                                      | .6                                  | 323      | 4.0                      | M                                                                                      | .1                                  |
| 433      | 2.5                      | T                                                                                      | .35                                 | 324      | 4.0                      | N                                                                                      | .1                                  |
| 029      | 3.0                      | A                                                                                      | .3                                  | 325      | 4.0                      | P                                                                                      | .3                                  |
| 030      | 3.0                      | B                                                                                      | .3                                  | 326      | 4.0                      | R                                                                                      | .3                                  |
| 031      | 3.0                      | C                                                                                      | .3                                  | 327      | 4.0                      | S                                                                                      | .3                                  |
| 032      | 3.0                      | D                                                                                      | .3                                  | 436      | 4.0                      | T                                                                                      | .1                                  |
| 033      | 3.0                      | E                                                                                      | .5                                  | 043      | 5.0                      | A                                                                                      | .08                                 |
| 034      | 3.0                      | F                                                                                      | .5                                  | 044      | 5.0                      | B                                                                                      | .08                                 |

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TABLE I. Circuit breaker dash numbers and applicable characteristics (configuration 1) - Continued. 1/

| Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables III, IV, V and VIII) | Resistance or impedance ohms (max.) | Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables III, IV, V and VIII) | Resistance or impedance ohms (max.) |
|----------|--------------------------|----------------------------------------------------------------------------------------|-------------------------------------|----------|--------------------------|----------------------------------------------------------------------------------------|-------------------------------------|
| 045      | 5.0                      | C                                                                                      | .08                                 | 348      | 7.0                      | S                                                                                      | .07                                 |
| 046      | 5.0                      | D                                                                                      | .08                                 | 449      | 7.0                      | T                                                                                      | .04                                 |
| 047      | 5.0                      | E                                                                                      | .15                                 | 064      | 8.0                      | A                                                                                      | .03                                 |
| 048      | 5.0                      | F                                                                                      | .15                                 | 065      | 8.0                      | B                                                                                      | .03                                 |
| 049      | 5.0                      | G                                                                                      | .15                                 | 066      | 8.0                      | C                                                                                      | .03                                 |
| 202      | 5.0                      | H                                                                                      | .08                                 | 067      | 8.0                      | D                                                                                      | .03                                 |
| 203      | 5.0                      | I                                                                                      | .08                                 | 068      | 8.0                      | E                                                                                      | .06                                 |
| 204      | 5.0                      | J                                                                                      | .15                                 | 069      | 8.0                      | F                                                                                      | .06                                 |
| 328      | 5.0                      | K                                                                                      | .08                                 | 070      | 8.0                      | G                                                                                      | .06                                 |
| 329      | 5.0                      | L                                                                                      | .08                                 | 211      | 8.0                      | H                                                                                      | .03                                 |
| 330      | 5.0                      | M                                                                                      | .08                                 | 212      | 8.0                      | I                                                                                      | .03                                 |
| 331      | 5.0                      | N                                                                                      | .08                                 | 213      | 8.0                      | J                                                                                      | .06                                 |
| 332      | 5.0                      | P                                                                                      | .15                                 | 349      | 8.0                      | K                                                                                      | .03                                 |
| 333      | 5.0                      | R                                                                                      | .15                                 | 350      | 8.0                      | L                                                                                      | .03                                 |
| 334      | 5.0                      | S                                                                                      | .15                                 | 351      | 8.0                      | M                                                                                      | .03                                 |
| 437      | 5.0                      | T                                                                                      | .08                                 | 352      | 8.0                      | N                                                                                      | .03                                 |
| 050      | 6.0                      | A                                                                                      | .06                                 | 353      | 8.0                      | P                                                                                      | .06                                 |
| 051      | 6.0                      | B                                                                                      | .06                                 | 354      | 8.0                      | R                                                                                      | .06                                 |
| 052      | 6.0                      | C                                                                                      | .06                                 | 355      | 8.0                      | S                                                                                      | .06                                 |
| 053      | 6.0                      | D                                                                                      | .06                                 | 440      | 8.0                      | T                                                                                      | .03                                 |
| 054      | 6.0                      | E                                                                                      | .08                                 | 071      | 9.0                      | A                                                                                      | .018                                |
| 055      | 6.0                      | F                                                                                      | .08                                 | 072      | 9.0                      | B                                                                                      | .018                                |
| 056      | 6.0                      | G                                                                                      | .08                                 | 073      | 9.0                      | C                                                                                      | .02                                 |
| 205      | 6.0                      | H                                                                                      | .06                                 | 074      | 9.0                      | D                                                                                      | .02                                 |
| 206      | 6.0                      | I                                                                                      | .06                                 | 075      | 9.0                      | E                                                                                      | .05                                 |
| 207      | 6.0                      | J                                                                                      | .08                                 | 076      | 9.0                      | F                                                                                      | .05                                 |
| 335      | 6.0                      | K                                                                                      | .06                                 | 077      | 9.0                      | G                                                                                      | .05                                 |
| 336      | 6.0                      | L                                                                                      | .06                                 | 214      | 9.0                      | H                                                                                      | .02                                 |
| 337      | 6.0                      | M                                                                                      | .06                                 | 215      | 9.0                      | I                                                                                      | .02                                 |
| 338      | 6.0                      | N                                                                                      | .06                                 | 216      | 9.0                      | J                                                                                      | .05                                 |
| 339      | 6.0                      | P                                                                                      | .08                                 | 356      | 9.0                      | K                                                                                      | .018                                |
| 340      | 6.0                      | R                                                                                      | .08                                 | 357      | 9.0                      | L                                                                                      | .018                                |
| 341      | 6.0                      | S                                                                                      | .08                                 | 358      | 9.0                      | M                                                                                      | .02                                 |
| 438      | 6.0                      | T                                                                                      | .06                                 | 359      | 9.0                      | N                                                                                      | .02                                 |
| 057      | 7.0                      | A                                                                                      | .04                                 | 360      | 9.0                      | P                                                                                      | .05                                 |
| 058      | 7.0                      | B                                                                                      | .04                                 | 361      | 9.0                      | R                                                                                      | .05                                 |
| 059      | 7.0                      | C                                                                                      | .04                                 | 362      | 9.0                      | S                                                                                      | .05                                 |
| 060      | 7.0                      | D                                                                                      | .04                                 | 441      | 9.0                      | T                                                                                      | .02                                 |
| 061      | 7.0                      | E                                                                                      | .07                                 | 078      | 10.0                     | A                                                                                      | .02                                 |
| 062      | 7.0                      | F                                                                                      | .07                                 | 079      | 10.0                     | B                                                                                      | .02                                 |
| 063      | 7.0                      | G                                                                                      | .07                                 | 080      | 10.0                     | C                                                                                      | .02                                 |
| 208      | 7.0                      | H                                                                                      | .04                                 | 081      | 10.0                     | D                                                                                      | .02                                 |
| 209      | 7.0                      | I                                                                                      | .04                                 | 082      | 10.0                     | E                                                                                      | .04                                 |
| 210      | 7.0                      | J                                                                                      | .07                                 | 083      | 10.0                     | F                                                                                      | .04                                 |
| 342      | 7.0                      | K                                                                                      | .04                                 | 084      | 10.0                     | G                                                                                      | .04                                 |
| 343      | 7.0                      | L                                                                                      | .04                                 | 217      | 10.0                     | H                                                                                      | .02                                 |
| 344      | 7.0                      | M                                                                                      | .04                                 | 218      | 10.0                     | I                                                                                      | .02                                 |
| 345      | 7.0                      | N                                                                                      | .04                                 | 219      | 10.0                     | J                                                                                      | .04                                 |
| 346      | 7.0                      | P                                                                                      | .07                                 | 363      | 10.0                     | K                                                                                      | .02                                 |
| 347      | 7.0                      | R                                                                                      | .07                                 | 364      | 10.0                     | L                                                                                      | .02                                 |

1/ This circuit breaker is obsolete and kept for reference only. For an alternative circuit breaker, see [figure 2](#) (configuration 2) and [table II](#).

TABLE I. Circuit breaker dash numbers and applicable characteristics (configuration 1) - Continued. 1/

| Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables III, IV, V and VIII) | Resistance or impedance ohms (max.) | Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables III, IV, V and VIII) | Resistance or impedance ohms (max.) |
|----------|--------------------------|----------------------------------------------------------------------------------------|-------------------------------------|----------|--------------------------|----------------------------------------------------------------------------------------|-------------------------------------|
| 365      | 10.0                     | M                                                                                      | .02                                 | 385      | 20.0                     | L                                                                                      | .007                                |
| 366      | 10.0                     | N                                                                                      | .02                                 | 386      | 20.0                     | M                                                                                      | .007                                |
| 367      | 10.0                     | P                                                                                      | .04                                 | 387      | 20.0                     | N                                                                                      | .007                                |
| 368      | 10.0                     | R                                                                                      | .04                                 | 388      | 20.0                     | P                                                                                      | .01                                 |
| 369      | 10.0                     | S                                                                                      | .04                                 | 389      | 20.0                     | R                                                                                      | .01                                 |
| 442      | 10.0                     | T                                                                                      | .02                                 | 390      | 20.0                     | S                                                                                      | .01                                 |
| 085      | 12.5                     | A                                                                                      | .013                                | 445      | 20.0                     | T                                                                                      | .007                                |
| 086      | 12.5                     | B                                                                                      | .013                                | 106      | 25.0                     | A                                                                                      | .006                                |
| 087      | 12.5                     | C                                                                                      | .015                                | 107      | 25.0                     | B                                                                                      | .006                                |
| 088      | 12.5                     | D                                                                                      | .015                                | 108      | 25.0                     | C                                                                                      | .006                                |
| 089      | 12.5                     | E                                                                                      | .03                                 | 109      | 25.0                     | D                                                                                      | .006                                |
| 090      | 12.5                     | F                                                                                      | .03                                 | 110      | 25.0                     | E                                                                                      | .007                                |
| 091      | 12.5                     | G                                                                                      | .03                                 | 111      | 25.0                     | F                                                                                      | .007                                |
| 220      | 12.5                     | H                                                                                      | .013                                | 112      | 25.0                     | G                                                                                      | .007                                |
| 221      | 12.5                     | I                                                                                      | .013                                | 229      | 25.0                     | H                                                                                      | .006                                |
| 222      | 12.5                     | J                                                                                      | .03                                 | 230      | 25.0                     | I                                                                                      | .006                                |
| 370      | 12.5                     | K                                                                                      | .013                                | 231      | 25.0                     | J                                                                                      | .007                                |
| 371      | 12.5                     | L                                                                                      | .013                                | 391      | 25.0                     | K                                                                                      | .006                                |
| 372      | 12.5                     | M                                                                                      | .015                                | 392      | 25.0                     | L                                                                                      | .006                                |
| 373      | 12.5                     | N                                                                                      | .015                                | 393      | 25.0                     | M                                                                                      | .006                                |
| 374      | 12.5                     | P                                                                                      | .03                                 | 394      | 25.0                     | N                                                                                      | .006                                |
| 375      | 12.5                     | R                                                                                      | .03                                 | 395      | 25.0                     | P                                                                                      | .007                                |
| 376      | 12.5                     | S                                                                                      | .03                                 | 396      | 25.0                     | R                                                                                      | .007                                |
| 443      | 12.5                     | T                                                                                      | .015                                | 397      | 25.0                     | S                                                                                      | .007                                |
| 092      | 15.0                     | A                                                                                      | .01                                 | 446      | 25.0                     | T                                                                                      | .006                                |
| 093      | 15.0                     | B                                                                                      | .01                                 | 113      | 30.0                     | A                                                                                      | .005                                |
| 094      | 15.0                     | C                                                                                      | .011                                | 114      | 30.0                     | B                                                                                      | .005                                |
| 095      | 15.0                     | D                                                                                      | .011                                | 115      | 30.0                     | C                                                                                      | .005                                |
| 096      | 15.0                     | E                                                                                      | .02                                 | 116      | 30.0                     | D                                                                                      | .005                                |
| 097      | 15.0                     | F                                                                                      | .02                                 | 117      | 30.0                     | E                                                                                      | .006                                |
| 098      | 15.0                     | G                                                                                      | .02                                 | 118      | 30.0                     | F                                                                                      | .006                                |
| 223      | 15.0                     | H                                                                                      | .013                                | 119      | 30.0                     | G                                                                                      | .006                                |
| 224      | 15.0                     | I                                                                                      | .015                                | 232      | 30.0                     | H                                                                                      | .005                                |
| 225      | 15.0                     | J                                                                                      | .03                                 | 233      | 30.0                     | I                                                                                      | .005                                |
| 377      | 15.0                     | K                                                                                      | .01                                 | 234      | 30.0                     | J                                                                                      | .006                                |
| 378      | 15.0                     | L                                                                                      | .01                                 | 398      | 30.0                     | K                                                                                      | .005                                |
| 379      | 15.0                     | M                                                                                      | .011                                | 399      | 30.0                     | L                                                                                      | .005                                |
| 380      | 15.0                     | N                                                                                      | .011                                | 400      | 30.0                     | M                                                                                      | .005                                |
| 381      | 15.0                     | P                                                                                      | .02                                 | 401      | 30.0                     | N                                                                                      | .005                                |
| 382      | 15.0                     | R                                                                                      | .02                                 | 402      | 30.0                     | P                                                                                      | .006                                |
| 383      | 15.0                     | S                                                                                      | .02                                 | 403      | 30.0                     | R                                                                                      | .006                                |
| 444      | 15.0                     | T                                                                                      | .011                                | 404      | 30.0                     | S                                                                                      | .006                                |
| 099      | 20.0                     | A                                                                                      | .007                                | 447      | 30.0                     | T                                                                                      | .005                                |
| 100      | 20.0                     | B                                                                                      | .007                                | 120      | 35.0                     | A                                                                                      | .004                                |
| 101      | 20.0                     | C                                                                                      | .007                                | 121      | 35.0                     | B                                                                                      | .004                                |
| 102      | 20.0                     | D                                                                                      | .007                                | 122      | 35.0                     | C                                                                                      | .004                                |
| 103      | 20.0                     | E                                                                                      | .01                                 | 123      | 35.0                     | D                                                                                      | .004                                |
| 104      | 20.0                     | F                                                                                      | .01                                 | 124      | 35.0                     | E                                                                                      | .005                                |
| 105      | 20.0                     | G                                                                                      | .01                                 | 125      | 35.0                     | F                                                                                      | .005                                |
| 226      | 20.0                     | H                                                                                      | .007                                | 126      | 35.0                     | G                                                                                      | .005                                |
| 227      | 20.0                     | I                                                                                      | .007                                | 235      | 35.0                     | H                                                                                      | .004                                |
| 228      | 20.0                     | J                                                                                      | .01                                 | 236      | 35.0                     | I                                                                                      | .004                                |
| 384      | 20.0                     | K                                                                                      | .007                                | 237      | 35.0                     | J                                                                                      | .005                                |

1/ This circuit breaker is obsolete and kept for reference only. For an alternative circuit breaker, see [figure 2](#) (configuration 2) and [table II](#).

TABLE I. Circuit breaker dash numbers and applicable characteristics (configuration 1) - Continued. 1/

| Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables III, IV, V and VIII) | Resistance or impedance ohms (max.) | Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables III, IV, V and VIII) | Resistance or impedance ohms (max.) |
|----------|--------------------------|----------------------------------------------------------------------------------------|-------------------------------------|----------|--------------------------|----------------------------------------------------------------------------------------|-------------------------------------|
| 405      | 35.0                     | K                                                                                      | .004                                | 416      | 40.0                     | P                                                                                      | .0052                               |
| 406      | 35.0                     | L                                                                                      | .004                                | 417      | 40.0                     | R                                                                                      | .0052                               |
| 407      | 35.0                     | M                                                                                      | .004                                | 418      | 40.0                     | S                                                                                      | .0052                               |
| 408      | 35.0                     | N                                                                                      | .004                                | 449      | 40.0                     | T                                                                                      | .0038                               |
| 409      | 35.0                     | P                                                                                      | .005                                | 127      | 50.0                     | A                                                                                      | .003                                |
| 410      | 35.0                     | R                                                                                      | .005                                | 128      | 50.0                     | B                                                                                      | .003                                |
| 411      | 35.0                     | S                                                                                      | .005                                | 129      | 50.0                     | C                                                                                      | .003                                |
| 448      | 35.0                     | T                                                                                      | .004                                | 130      | 50.0                     | D                                                                                      | .003                                |
| 238      | 40.0                     | A                                                                                      | .0038                               | 131      | 50.0                     | E                                                                                      | .004                                |
| 239      | 40.0                     | B                                                                                      | .0038                               | 132      | 50.0                     | F                                                                                      | .004                                |
| 241      | 40.0                     | C                                                                                      | .0038                               | 133      | 50.0                     | G                                                                                      | .004                                |
| 242      | 40.0                     | D                                                                                      | .0038                               | 248      | 50.0                     | H                                                                                      | .003                                |
| 244      | 40.0                     | E                                                                                      | .0052                               | 249      | 50.0                     | I                                                                                      | .003                                |
| 245      | 40.0                     | F                                                                                      | .0052                               | 250      | 50.0                     | J                                                                                      | .004                                |
| 246      | 40.0                     | G                                                                                      | .0052                               | 419      | 50.0                     | K                                                                                      | .003                                |
| 240      | 40.0                     | H                                                                                      | .0038                               | 420      | 50.0                     | L                                                                                      | .003                                |
| 243      | 40.0                     | I                                                                                      | .0038                               | 421      | 50.0                     | M                                                                                      | .003                                |
| 247      | 40.0                     | J                                                                                      | .0052                               | 422      | 50.0                     | N                                                                                      | .003                                |
| 412      | 40.0                     | K                                                                                      | .0038                               | 423      | 50.0                     | P                                                                                      | .004                                |
| 413      | 40.0                     | L                                                                                      | .0038                               | 424      | 50.0                     | R                                                                                      | .004                                |
| 414      | 40.0                     | M                                                                                      | .0038                               | 425      | 50.0                     | S                                                                                      | .004                                |
| 415      | 40.0                     | N                                                                                      | .0038                               | 450      | 50.0                     | T                                                                                      | .003                                |

1/ This circuit breaker is obsolete and kept for reference only. For an alternative circuit breaker, see [figure 2](#) (configuration 2) and [table II](#).

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TABLE II. Circuit breaker dash numbers and applicable characteristics (configuration 2).

| Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables VI, VII and VIII) | Resistance or impedance ohms (max.) | Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables VI, VII and VIII) | Resistance or impedance ohms (max.) |
|----------|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------|----------|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------|
| 001L     | 0.2                      | A                                                                                   | 52                                  | 269L     | 0.5                      | P                                                                                   | 24                                  |
| 002L     | 0.2                      | B                                                                                   | 52                                  | 270L     | 0.5                      | R                                                                                   | 24                                  |
| 003L     | 0.2                      | C                                                                                   | 34                                  | 271L     | 0.5                      | S                                                                                   | 24                                  |
| 004L     | 0.2                      | D                                                                                   | 34                                  | 428L     | 0.5                      | T                                                                                   | 6                                   |
| 005L     | 0.2                      | E                                                                                   | 88                                  | 150L     | 0.75                     | A                                                                                   | 3                                   |
| 006L     | 0.2                      | F                                                                                   | 88                                  | 151L     | 0.75                     | B                                                                                   | 3                                   |
| 007L     | 0.2                      | G                                                                                   | 88                                  | 153L     | 0.75                     | C                                                                                   | 3                                   |
| 134L     | 0.2                      | H                                                                                   | 52                                  | 154L     | 0.75                     | D                                                                                   | 3                                   |
| 135L     | 0.2                      | I                                                                                   | 34                                  | 156L     | 0.75                     | E                                                                                   | 7                                   |
| 136L     | 0.2                      | J                                                                                   | 88                                  | 157L     | 0.75                     | F                                                                                   | 7                                   |
| 251L     | 0.2                      | K                                                                                   | 52                                  | 158L     | 0.75                     | G                                                                                   | 7                                   |
| 252L     | 0.2                      | L                                                                                   | 52                                  | 152L     | 0.75                     | H                                                                                   | 3                                   |
| 253L     | 0.2                      | M                                                                                   | 34                                  | 155L     | 0.75                     | I                                                                                   | 3                                   |
| 254L     | 0.2                      | N                                                                                   | 34                                  | 159L     | 0.75                     | J                                                                                   | 7                                   |
| 255L     | 0.2                      | P                                                                                   | 88                                  | 272L     | 0.75                     | K                                                                                   | 3                                   |
| 256L     | 0.2                      | R                                                                                   | 88                                  | 273L     | 0.75                     | L                                                                                   | 3                                   |
| 257L     | 0.2                      | S                                                                                   | 88                                  | 274L     | 0.75                     | M                                                                                   | 3                                   |
| 426L     | 0.2                      | T                                                                                   | 34                                  | 275L     | 0.75                     | N                                                                                   | 3                                   |
| 137L     | 0.25                     | A                                                                                   | 26                                  | 276L     | 0.75                     | P                                                                                   | 7                                   |
| 138L     | 0.25                     | B                                                                                   | 26                                  | 277L     | 0.75                     | R                                                                                   | 7                                   |
| 140L     | 0.25                     | C                                                                                   | 23                                  | 278L     | 0.75                     | S                                                                                   | 7                                   |
| 141L     | 0.25                     | D                                                                                   | 23                                  | 429L     | 0.75                     | T                                                                                   | 3                                   |
| 143L     | 0.25                     | E                                                                                   | 43                                  | 015L     | 1.0                      | A                                                                                   | 2                                   |
| 144L     | 0.25                     | F                                                                                   | 43                                  | 016L     | 1.0                      | B                                                                                   | 2                                   |
| 145L     | 0.25                     | G                                                                                   | 43                                  | 017L     | 1.0                      | C                                                                                   | 2                                   |
| 139L     | 0.25                     | H                                                                                   | 26                                  | 018L     | 1.0                      | D                                                                                   | 2                                   |
| 142L     | 0.25                     | I                                                                                   | 23                                  | 019L     | 1.0                      | E                                                                                   | 4                                   |
| 146L     | 0.25                     | J                                                                                   | 43                                  | 020L     | 1.0                      | F                                                                                   | 4                                   |
| 258L     | 0.25                     | K                                                                                   | 26                                  | 021L     | 1.0                      | G                                                                                   | 4                                   |
| 259L     | 0.25                     | L                                                                                   | 26                                  | 160L     | 1.0                      | H                                                                                   | 2                                   |
| 260L     | 0.25                     | M                                                                                   | 23                                  | 161L     | 1.0                      | I                                                                                   | 2                                   |
| 261L     | 0.25                     | N                                                                                   | 23                                  | 162L     | 1.0                      | J                                                                                   | 4                                   |
| 262L     | 0.25                     | P                                                                                   | 43                                  | 279L     | 1.0                      | K                                                                                   | 2                                   |
| 263L     | 0.25                     | R                                                                                   | 43                                  | 280L     | 1.0                      | L                                                                                   | 2                                   |
| 264L     | 0.25                     | S                                                                                   | 43                                  | 281L     | 1.0                      | M                                                                                   | 2                                   |
| 427L     | 0.25                     | T                                                                                   | 23                                  | 282L     | 1.0                      | N                                                                                   | 2                                   |
| 008L     | 0.5                      | A                                                                                   | 7                                   | 283L     | 1.0                      | P                                                                                   | 4                                   |
| 009L     | 0.5                      | B                                                                                   | 7                                   | 284L     | 1.0                      | R                                                                                   | 4                                   |
| 010L     | 0.5                      | C                                                                                   | 6                                   | 285L     | 1.0                      | S                                                                                   | 4                                   |
| 011L     | 0.5                      | D                                                                                   | 6                                   | 430L     | 1.0                      | T                                                                                   | 2                                   |
| 012L     | 0.5                      | E                                                                                   | 24                                  | 163L     | 1.5                      | A                                                                                   | .9                                  |
| 013L     | 0.5                      | F                                                                                   | 24                                  | 164L     | 1.5                      | B                                                                                   | .9                                  |
| 014L     | 0.5                      | G                                                                                   | 24                                  | 166L     | 1.5                      | C                                                                                   | .9                                  |
| 147L     | 0.5                      | H                                                                                   | 7                                   | 167L     | 1.5                      | D                                                                                   | .9                                  |
| 148L     | 0.5                      | I                                                                                   | 6                                   | 169L     | 1.5                      | E                                                                                   | 2                                   |
| 149L     | 0.5                      | J                                                                                   | 24                                  | 170L     | 1.5                      | F                                                                                   | 2                                   |
| 265L     | 0.5                      | K                                                                                   | 7                                   | 171L     | 1.5                      | G                                                                                   | 2                                   |
| 266L     | 0.5                      | L                                                                                   | 7                                   | 165L     | 1.5                      | H                                                                                   | .9                                  |
| 267L     | 0.5                      | M                                                                                   | 6                                   | 168L     | 1.5                      | I                                                                                   | .9                                  |
| 268L     | 0.5                      | N                                                                                   | 6                                   | 172L     | 1.5                      | J                                                                                   | 2                                   |

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TABLE II. Circuit breaker dash numbers and applicable characteristics (configuration 2) - Continued.

| Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables VI, VII and VIII) | Resistance or impedance ohms (max.) | Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables VI, VII and VIII) | Resistance or impedance ohms (max.) |
|----------|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------|----------|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------|
| 286L     | 1.5                      | K                                                                                   | .9                                  | 035L     | 3.0                      | G                                                                                   | .5                                  |
| 287L     | 1.5                      | L                                                                                   | .9                                  | 186L     | 3.0                      | H                                                                                   | .3                                  |
| 288L     | 1.5                      | M                                                                                   | .9                                  | 187L     | 3.0                      | I                                                                                   | .3                                  |
| 289L     | 1.5                      | N                                                                                   | .9                                  | 188L     | 3.0                      | J                                                                                   | .5                                  |
| 290L     | 1.5                      | P                                                                                   | 2                                   | 307L     | 3.0                      | K                                                                                   | .3                                  |
| 291L     | 1.5                      | R                                                                                   | 2                                   | 308L     | 3.0                      | L                                                                                   | .3                                  |
| 292L     | 1.5                      | S                                                                                   | 2                                   | 309L     | 3.0                      | M                                                                                   | .3                                  |
| 431L     | 2.0                      | T                                                                                   | .9                                  | 310L     | 3.0                      | N                                                                                   | .3                                  |
| 022L     | 2.0                      | A                                                                                   | .5                                  | 311L     | 3.0                      | P                                                                                   | .5                                  |
| 023L     | 2.0                      | B                                                                                   | .5                                  | 312L     | 3.0                      | R                                                                                   | .5                                  |
| 024L     | 2.0                      | C                                                                                   | .5                                  | 313L     | 3.0                      | S                                                                                   | .5                                  |
| 025L     | 2.0                      | D                                                                                   | .5                                  | 434L     | 3.0                      | T                                                                                   | .3                                  |
| 026L     | 2.0                      | E                                                                                   | .9                                  | 189L     | 3.5                      | A                                                                                   | .15                                 |
| 027L     | 2.0                      | F                                                                                   | .9                                  | 190L     | 3.5                      | B                                                                                   | .15                                 |
| 028L     | 2.0                      | G                                                                                   | .9                                  | 192L     | 3.5                      | C                                                                                   | .15                                 |
| 173L     | 2.0                      | H                                                                                   | .5                                  | 193L     | 3.5                      | D                                                                                   | .15                                 |
| 174L     | 2.0                      | I                                                                                   | .5                                  | 195L     | 3.5                      | E                                                                                   | .35                                 |
| 175L     | 2.0                      | J                                                                                   | .9                                  | 196L     | 3.5                      | F                                                                                   | .35                                 |
| 293L     | 2.0                      | K                                                                                   | .5                                  | 197L     | 3.5                      | G                                                                                   | .35                                 |
| 294L     | 2.0                      | L                                                                                   | .5                                  | 191L     | 3.5                      | H                                                                                   | .15                                 |
| 295L     | 2.0                      | M                                                                                   | .5                                  | 194L     | 3.5                      | I                                                                                   | .15                                 |
| 296L     | 2.0                      | N                                                                                   | .5                                  | 198L     | 3.5                      | J                                                                                   | .35                                 |
| 297L     | 2.0                      | P                                                                                   | .9                                  | 314L     | 3.5                      | K                                                                                   | .15                                 |
| 298L     | 2.0                      | R                                                                                   | .9                                  | 315L     | 3.5                      | L                                                                                   | .15                                 |
| 299L     | 2.0                      | S                                                                                   | .9                                  | 316L     | 3.5                      | M                                                                                   | .15                                 |
| 432L     | 2.0                      | T                                                                                   | .5                                  | 317L     | 3.5                      | N                                                                                   | .15                                 |
| 176L     | 2.5                      | A                                                                                   | .35                                 | 318L     | 3.5                      | P                                                                                   | .35                                 |
| 177L     | 2.5                      | B                                                                                   | .35                                 | 319L     | 3.5                      | R                                                                                   | .35                                 |
| 179L     | 2.5                      | C                                                                                   | .35                                 | 320L     | 3.5                      | S                                                                                   | .35                                 |
| 180L     | 2.5                      | D                                                                                   | .35                                 | 435L     | 3.5                      | T                                                                                   | .15                                 |
| 182L     | 2.5                      | E                                                                                   | .6                                  | 036L     | 4.0                      | A                                                                                   | .1                                  |
| 183L     | 2.5                      | F                                                                                   | .6                                  | 037L     | 4.0                      | B                                                                                   | .1                                  |
| 184L     | 2.5                      | G                                                                                   | .6                                  | 038L     | 4.0                      | C                                                                                   | .1                                  |
| 178L     | 2.5                      | H                                                                                   | .35                                 | 039L     | 4.0                      | D                                                                                   | .1                                  |
| 181L     | 2.5                      | I                                                                                   | .35                                 | 040L     | 4.0                      | E                                                                                   | .3                                  |
| 185L     | 2.5                      | J                                                                                   | .6                                  | 041L     | 4.0                      | F                                                                                   | .3                                  |
| 300L     | 2.5                      | K                                                                                   | .35                                 | 042L     | 4.0                      | G                                                                                   | .3                                  |
| 301L     | 2.5                      | L                                                                                   | .35                                 | 199L     | 4.0                      | H                                                                                   | .1                                  |
| 302L     | 2.5                      | M                                                                                   | .35                                 | 200L     | 4.0                      | I                                                                                   | .1                                  |
| 303L     | 2.5                      | N                                                                                   | .35                                 | 201L     | 4.0                      | J                                                                                   | .3                                  |
| 304L     | 2.5                      | P                                                                                   | .6                                  | 321L     | 4.0                      | K                                                                                   | .1                                  |
| 305L     | 2.5                      | R                                                                                   | .6                                  | 322L     | 4.0                      | L                                                                                   | .1                                  |
| 306L     | 2.5                      | S                                                                                   | .6                                  | 323L     | 4.0                      | M                                                                                   | .1                                  |
| 433L     | 2.5                      | T                                                                                   | .35                                 | 324L     | 4.0                      | N                                                                                   | .1                                  |
| 029L     | 3.0                      | A                                                                                   | .3                                  | 325L     | 4.0                      | P                                                                                   | .3                                  |
| 030L     | 3.0                      | B                                                                                   | .3                                  | 326L     | 4.0                      | R                                                                                   | .3                                  |
| 031L     | 3.0                      | C                                                                                   | .3                                  | 327L     | 4.0                      | S                                                                                   | .3                                  |
| 032L     | 3.0                      | D                                                                                   | .3                                  | 436L     | 4.0                      | T                                                                                   | .1                                  |
| 033L     | 3.0                      | E                                                                                   | .5                                  | 043L     | 5.0                      | A                                                                                   | .08                                 |
| 034L     | 3.0                      | F                                                                                   | .5                                  | 044L     | 5.0                      | B                                                                                   | .08                                 |

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TABLE II. Circuit breaker dash numbers and applicable characteristics (configuration 2) - Continued.

| Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables VI, VII and VIII) | Resistance or impedance ohms (max.) | Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables VI, VII and VIII) | Resistance or impedance ohms (max.) |
|----------|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------|----------|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------|
| 045L     | 5.0                      | C                                                                                   | .08                                 | 348L     | 7.0                      | S                                                                                   | .078                                |
| 046L     | 5.0                      | D                                                                                   | .08                                 | 449L     | 7.0                      | T                                                                                   | .04                                 |
| 047L     | 5.0                      | E                                                                                   | .15                                 | 064L     | 8.0                      | A                                                                                   | .03                                 |
| 048L     | 5.0                      | F                                                                                   | .15                                 | 065L     | 8.0                      | B                                                                                   | .03                                 |
| 049L     | 5.0                      | G                                                                                   | .15                                 | 066L     | 8.0                      | C                                                                                   | .03                                 |
| 202L     | 5.0                      | H                                                                                   | .08                                 | 067L     | 8.0                      | D                                                                                   | .03                                 |
| 203L     | 5.0                      | I                                                                                   | .08                                 | 068L     | 8.0                      | E                                                                                   | .063                                |
| 204L     | 5.0                      | J                                                                                   | .15                                 | 069L     | 8.0                      | F                                                                                   | .063                                |
| 328L     | 5.0                      | K                                                                                   | .08                                 | 070L     | 8.0                      | G                                                                                   | .063                                |
| 329L     | 5.0                      | L                                                                                   | .08                                 | 211L     | 8.0                      | H                                                                                   | .03                                 |
| 330L     | 5.0                      | M                                                                                   | .08                                 | 212L     | 8.0                      | I                                                                                   | .03                                 |
| 331L     | 5.0                      | N                                                                                   | .08                                 | 213L     | 8.0                      | J                                                                                   | .063                                |
| 332L     | 5.0                      | P                                                                                   | .15                                 | 349L     | 8.0                      | K                                                                                   | .03                                 |
| 333L     | 5.0                      | R                                                                                   | .15                                 | 350L     | 8.0                      | L                                                                                   | .03                                 |
| 334L     | 5.0                      | S                                                                                   | .15                                 | 351L     | 8.0                      | M                                                                                   | .03                                 |
| 437L     | 5.0                      | T                                                                                   | .08                                 | 352L     | 8.0                      | N                                                                                   | .03                                 |
| 050L     | 6.0                      | A                                                                                   | .06                                 | 353L     | 8.0                      | P                                                                                   | .063                                |
| 051L     | 6.0                      | B                                                                                   | .06                                 | 354L     | 8.0                      | R                                                                                   | .063                                |
| 052L     | 6.0                      | C                                                                                   | .06                                 | 355L     | 8.0                      | S                                                                                   | .063                                |
| 053L     | 6.0                      | D                                                                                   | .06                                 | 440L     | 8.0                      | T                                                                                   | .03                                 |
| 054L     | 6.0                      | E                                                                                   | .104                                | 071L     | 9.0                      | A                                                                                   | .028                                |
| 055L     | 6.0                      | F                                                                                   | .104                                | 072L     | 9.0                      | B                                                                                   | .028                                |
| 056L     | 6.0                      | G                                                                                   | .104                                | 073L     | 9.0                      | C                                                                                   | .025                                |
| 205L     | 6.0                      | H                                                                                   | .06                                 | 074L     | 9.0                      | D                                                                                   | .025                                |
| 206L     | 6.0                      | I                                                                                   | .06                                 | 075L     | 9.0                      | E                                                                                   | .05                                 |
| 207L     | 6.0                      | J                                                                                   | .104                                | 076L     | 9.0                      | F                                                                                   | .05                                 |
| 335L     | 6.0                      | K                                                                                   | .06                                 | 077L     | 9.0                      | G                                                                                   | .05                                 |
| 336L     | 6.0                      | L                                                                                   | .06                                 | 214L     | 9.0                      | H                                                                                   | .028                                |
| 337L     | 6.0                      | M                                                                                   | .06                                 | 215L     | 9.0                      | I                                                                                   | .025                                |
| 338L     | 6.0                      | N                                                                                   | .06                                 | 216L     | 9.0                      | J                                                                                   | .05                                 |
| 339L     | 6.0                      | P                                                                                   | .104                                | 356L     | 9.0                      | K                                                                                   | .028                                |
| 340L     | 6.0                      | R                                                                                   | .104                                | 357L     | 9.0                      | L                                                                                   | .028                                |
| 341L     | 6.0                      | S                                                                                   | .104                                | 358L     | 9.0                      | M                                                                                   | .025                                |
| 438L     | 6.0                      | T                                                                                   | .06                                 | 359L     | 9.0                      | N                                                                                   | .025                                |
| 057L     | 7.0                      | A                                                                                   | .041                                | 360L     | 9.0                      | P                                                                                   | .05                                 |
| 058L     | 7.0                      | B                                                                                   | .041                                | 361L     | 9.0                      | R                                                                                   | .05                                 |
| 059L     | 7.0                      | C                                                                                   | .04                                 | 362L     | 9.0                      | S                                                                                   | .05                                 |
| 060L     | 7.0                      | D                                                                                   | .04                                 | 441L     | 9.0                      | T                                                                                   | .025                                |
| 061L     | 7.0                      | E                                                                                   | .078                                | 078L     | 10.0                     | A                                                                                   | .023                                |
| 062L     | 7.0                      | F                                                                                   | .078                                | 079L     | 10.0                     | B                                                                                   | .023                                |
| 063L     | 7.0                      | G                                                                                   | .078                                | 080L     | 10.0                     | C                                                                                   | .02                                 |
| 208L     | 7.0                      | H                                                                                   | .041                                | 081L     | 10.0                     | D                                                                                   | .02                                 |
| 209L     | 7.0                      | I                                                                                   | .04                                 | 082L     | 10.0                     | E                                                                                   | .04                                 |
| 210L     | 7.0                      | J                                                                                   | .078                                | 083L     | 10.0                     | F                                                                                   | .04                                 |
| 342L     | 7.0                      | K                                                                                   | .041                                | 084L     | 10.0                     | G                                                                                   | .04                                 |
| 343L     | 7.0                      | L                                                                                   | .041                                | 217L     | 10.0                     | H                                                                                   | .023                                |
| 344L     | 7.0                      | M                                                                                   | .04                                 | 218L     | 10.0                     | I                                                                                   | .02                                 |
| 345L     | 7.0                      | N                                                                                   | .04                                 | 219L     | 10.0                     | J                                                                                   | .043                                |
| 346L     | 7.0                      | P                                                                                   | .078                                | 363L     | 10.0                     | K                                                                                   | .023                                |
| 347L     | 7.0                      | R                                                                                   | .078                                | 364L     | 10.0                     | L                                                                                   | .023                                |

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TABLE II. Circuit breaker dash numbers and applicable characteristics (configuration 2) - Continued.

| Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables VI, VII and VIII) | Resistance or impedance ohms (max.) | Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables VI, VII and VIII) | Resistance or impedance ohms (max.) |
|----------|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------|----------|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------|
| 365L     | 10.0                     | M                                                                                   | .02                                 | 385L     | 20.0                     | L                                                                                   | .008                                |
| 366L     | 10.0                     | N                                                                                   | .02                                 | 386L     | 20.0                     | M                                                                                   | .008                                |
| 367L     | 10.0                     | P                                                                                   | .04                                 | 387L     | 20.0                     | N                                                                                   | .008                                |
| 368L     | 10.0                     | R                                                                                   | .04                                 | 388L     | 20.0                     | P                                                                                   | .013                                |
| 369L     | 10.0                     | S                                                                                   | .04                                 | 389L     | 20.0                     | R                                                                                   | .013                                |
| 442L     | 10.0                     | T                                                                                   | .02                                 | 390L     | 20.0                     | S                                                                                   | .013                                |
| 085L     | 12.5                     | A                                                                                   | .015                                | 445L     | 20.0                     | T                                                                                   | .008                                |
| 086L     | 12.5                     | B                                                                                   | .015                                | 106L     | 25.0                     | A                                                                                   | .006                                |
| 087L     | 12.5                     | C                                                                                   | .015                                | 107L     | 25.0                     | B                                                                                   | .006                                |
| 088L     | 12.5                     | D                                                                                   | .015                                | 108L     | 25.0                     | C                                                                                   | .006                                |
| 089L     | 12.5                     | E                                                                                   | .03                                 | 109L     | 25.0                     | D                                                                                   | .006                                |
| 090L     | 12.5                     | F                                                                                   | .03                                 | 110L     | 25.0                     | E                                                                                   | .011                                |
| 091L     | 12.5                     | G                                                                                   | .03                                 | 111L     | 25.0                     | F                                                                                   | .011                                |
| 220L     | 12.5                     | H                                                                                   | .015                                | 112L     | 25.0                     | G                                                                                   | .011                                |
| 221L     | 12.5                     | I                                                                                   | .013                                | 229L     | 25.0                     | H                                                                                   | .006                                |
| 222L     | 12.5                     | J                                                                                   | .03                                 | 230L     | 25.0                     | I                                                                                   | .006                                |
| 370L     | 12.5                     | K                                                                                   | .015                                | 231L     | 25.0                     | J                                                                                   | .011                                |
| 371L     | 12.5                     | L                                                                                   | .015                                | 391L     | 25.0                     | K                                                                                   | .006                                |
| 372L     | 12.5                     | M                                                                                   | .015                                | 392L     | 25.0                     | L                                                                                   | .006                                |
| 373L     | 12.5                     | N                                                                                   | .015                                | 393L     | 25.0                     | M                                                                                   | .006                                |
| 374L     | 12.5                     | P                                                                                   | .03                                 | 394L     | 25.0                     | N                                                                                   | .006                                |
| 375L     | 12.5                     | R                                                                                   | .03                                 | 395L     | 25.0                     | P                                                                                   | .011                                |
| 376L     | 12.5                     | S                                                                                   | .03                                 | 396L     | 25.0                     | R                                                                                   | .011                                |
| 443L     | 12.5                     | T                                                                                   | .015                                | 397L     | 25.0                     | S                                                                                   | .011                                |
| 092L     | 15.0                     | A                                                                                   | .01                                 | 446L     | 25.0                     | T                                                                                   | .006                                |
| 093L     | 15.0                     | B                                                                                   | .01                                 | 113L     | 30.0                     | A                                                                                   | .005                                |
| 094L     | 15.0                     | C                                                                                   | .011                                | 114L     | 30.0                     | B                                                                                   | .005                                |
| 095L     | 15.0                     | D                                                                                   | .011                                | 115L     | 30.0                     | C                                                                                   | .006                                |
| 096L     | 15.0                     | E                                                                                   | .02                                 | 116L     | 30.0                     | D                                                                                   | .006                                |
| 097L     | 15.0                     | F                                                                                   | .02                                 | 117L     | 30.0                     | E                                                                                   | .009                                |
| 098L     | 15.0                     | G                                                                                   | .02                                 | 118L     | 30.0                     | F                                                                                   | .009                                |
| 223L     | 15.0                     | H                                                                                   | .013                                | 119L     | 30.0                     | G                                                                                   | .009                                |
| 224L     | 15.0                     | I                                                                                   | .015                                | 232L     | 30.0                     | H                                                                                   | .005                                |
| 225L     | 15.0                     | J                                                                                   | .03                                 | 233L     | 30.0                     | I                                                                                   | .006                                |
| 377L     | 15.0                     | K                                                                                   | .01                                 | 234L     | 30.0                     | J                                                                                   | .009                                |
| 378L     | 15.0                     | L                                                                                   | .01                                 | 398L     | 30.0                     | K                                                                                   | .005                                |
| 379L     | 15.0                     | M                                                                                   | .011                                | 399L     | 30.0                     | L                                                                                   | .005                                |
| 380L     | 15.0                     | N                                                                                   | .011                                | 400L     | 30.0                     | M                                                                                   | .006                                |
| 381L     | 15.0                     | P                                                                                   | .02                                 | 401L     | 30.0                     | N                                                                                   | .006                                |
| 382L     | 15.0                     | R                                                                                   | .02                                 | 402L     | 30.0                     | P                                                                                   | .009                                |
| 383L     | 15.0                     | S                                                                                   | .02                                 | 403L     | 30.0                     | R                                                                                   | .009                                |
| 444L     | 15.0                     | T                                                                                   | .011                                | 404L     | 30.0                     | S                                                                                   | .009                                |
| 099L     | 20.0                     | A                                                                                   | .008                                | 447L     | 30.0                     | T                                                                                   | .006                                |
| 100L     | 20.0                     | B                                                                                   | .008                                | 120L     | 35.0                     | A                                                                                   | .004                                |
| 101L     | 20.0                     | C                                                                                   | .008                                | 121L     | 35.0                     | B                                                                                   | .004                                |
| 102L     | 20.0                     | D                                                                                   | .008                                | 122L     | 35.0                     | C                                                                                   | .005                                |
| 103L     | 20.0                     | E                                                                                   | .013                                | 123L     | 35.0                     | D                                                                                   | .005                                |
| 104L     | 20.0                     | F                                                                                   | .013                                | 124L     | 35.0                     | E                                                                                   | .006                                |
| 105L     | 20.0                     | G                                                                                   | .013                                | 125L     | 35.0                     | F                                                                                   | .006                                |
| 226L     | 20.0                     | H                                                                                   | .008                                | 126L     | 35.0                     | G                                                                                   | .006                                |
| 227L     | 20.0                     | I                                                                                   | .008                                | 235L     | 35.0                     | H                                                                                   | .004                                |
| 228L     | 20.0                     | J                                                                                   | .013                                | 236L     | 35.0                     | I                                                                                   | .005                                |
| 384L     | 20.0                     | K                                                                                   | .008                                | 237L     | 35.0                     | J                                                                                   | .006                                |

TABLE II. Circuit breaker dash numbers and applicable characteristics (configuration 2) - Continued.

| Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables VI, VII and VIII) | Resistance or impedance ohms (max.) | Dash no. | Current rating (amperes) | Voltage frequency and tripping time delay code letter (see tables VI, VII and VIII) | Resistance or impedance ohms (max.) |
|----------|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------|----------|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------|
| 405L     | 35.0                     | K                                                                                   | .004                                | 416L     | 40.0                     | P                                                                                   | .0052                               |
| 406L     | 35.0                     | L                                                                                   | .004                                | 417L     | 40.0                     | R                                                                                   | .0052                               |
| 407L     | 35.0                     | M                                                                                   | .005                                | 418L     | 40.0                     | S                                                                                   | .0052                               |
| 408L     | 35.0                     | N                                                                                   | .005                                | 449L     | 40.0                     | T                                                                                   | .0045                               |
| 409L     | 35.0                     | P                                                                                   | .006                                | 127L     | 50.0                     | A                                                                                   | .004                                |
| 410L     | 35.0                     | R                                                                                   | .006                                | 128L     | 50.0                     | B                                                                                   | .004                                |
| 411L     | 35.0                     | S                                                                                   | .006                                | 129L     | 50.0                     | C                                                                                   | .004                                |
| 448L     | 35.0                     | T                                                                                   | .005                                | 130L     | 50.0                     | D                                                                                   | .003                                |
| 238L     | 40.0                     | A                                                                                   | .0038                               | 131L     | 50.0                     | E                                                                                   | .004                                |
| 239L     | 40.0                     | B                                                                                   | .0038                               | 132L     | 50.0                     | F                                                                                   | .004                                |
| 241L     | 40.0                     | C                                                                                   | .0045                               | 133L     | 50.0                     | G                                                                                   | .004                                |
| 242L     | 40.0                     | D                                                                                   | .0045                               | 248L     | 50.0                     | H                                                                                   | .003                                |
| 244L     | 40.0                     | E                                                                                   | .0052                               | 249L     | 50.0                     | I                                                                                   | .003                                |
| 245L     | 40.0                     | F                                                                                   | .0052                               | 250L     | 50.0                     | J                                                                                   | .004                                |
| 246L     | 40.0                     | G                                                                                   | .0052                               | 419L     | 50.0                     | K                                                                                   | .004                                |
| 240L     | 40.0                     | H                                                                                   | .0038                               | 420L     | 50.0                     | L                                                                                   | .004                                |
| 243L     | 40.0                     | I                                                                                   | .0045                               | 421L     | 50.0                     | M                                                                                   | .004                                |
| 247L     | 40.0                     | J                                                                                   | .0052                               | 422L     | 50.0                     | N                                                                                   | .003                                |
| 412L     | 40.0                     | K                                                                                   | .0038                               | 423L     | 50.0                     | P                                                                                   | .004                                |
| 413L     | 40.0                     | L                                                                                   | .0038                               | 424L     | 50.0                     | R                                                                                   | .004                                |
| 414L     | 40.0                     | M                                                                                   | .0045                               | 425L     | 50.0                     | S                                                                                   | .004                                |
| 415L     | 40.0                     | N                                                                                   | .0045                               | 450L     | 50.0                     | T                                                                                   | .003                                |

TABLE III. Tripping-time delay (configuration 1). 1/ 2/

| Time delay percent rated current | Tripping-time delay at 25°C ±2°C (tripping time in seconds) |      |                  |      |                  |      |                  |      |                  |      |                  |      |                  |      |
|----------------------------------|-------------------------------------------------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|
|                                  | 50 V dc                                                     |      |                  |      | 240 V ac, 60 Hz  |      |                  |      | 240 V ac, 400 Hz |      |                  |      |                  |      |
|                                  | A                                                           |      | B                |      | C                |      | D                |      | E                |      | F                |      | G                |      |
|                                  | Max                                                         | Min  | Max              | Min  | Max              | Min  | Max              | Min  | Max              | Min  | Max              | Min  | Max              | Min  |
| 100                              | no trip one hour                                            |      | no trip one hour |      | no trip one hour |      | no trip one hour |      | no trip one hour |      | no trip one hour |      | no trip one hour |      |
| 125                              | 70                                                          | 7    | 7                | .5   | 120              | 10   | 17               | .7   | N/A              | N/A  | N/A              | N/A  | N/A              | N/A  |
| 150                              | N/A                                                         | N/A  | N/A              | N/A  | N/A              | N/A  | N/A              | N/A  | 60               | 5    | 5.8              | .50  | 400              | 40   |
| 200                              | 8                                                           | .6   | 1.4              | .13  | 20               | 2.2  | 1.6              | .13  | 20               | 2.1  | 1.9              | .15  | 150              | 9.5  |
| 400                              | 1.5                                                         | .15  | .25              | .031 | 2.3              | .3   | .25              | .03  | 3.2              | .4   | .19              | .02  | 19               | 1.9  |
| 600                              | .05                                                         | Inst | .12              | Inst | .75              | Inst | .13              | Inst | .19              | Inst | .08              | Inst | 1.6              | Inst |
| 800                              | .051                                                        | Inst | .051             | Inst | .16              | Inst | .07              | Inst | .06              | Inst | .05              | Inst | .06              | Inst |
| 1,000                            | .026                                                        | Inst | .026             | Inst | .04              | Inst | .04              | Inst | .045             | Inst | .036             | Inst | .043             | Inst |

See footnotes at end of [table VIII](#).

TABLE IV. Tripping-time, high-inrush design (configuration 1). 1/ 3/

| Time delay percent rated current | Tripping-time delay at 25°C ±2°C (tripping time in seconds) |      |                  |      |                  |      |                  |      |                  |     |                  |      |                  |      |                  |      |
|----------------------------------|-------------------------------------------------------------|------|------------------|------|------------------|------|------------------|------|------------------|-----|------------------|------|------------------|------|------------------|------|
|                                  | 50 V dc                                                     |      |                  |      | 240 V ac, 60 Hz  |      |                  |      |                  |     | 240 V ac, 400 Hz |      |                  |      |                  |      |
|                                  | K                                                           |      | L                |      | M                |      | N                |      | T                |     | P                |      | R                |      | S                |      |
|                                  | Max                                                         | Min  | Max              | Min  | Max              | Min  | Max              | Min  | Max              | Min | Max              | Min  | Max              | Min  | Max              | Min  |
| 100                              | no trip one hour                                            |      | no trip one hour |      | no trip one hour |      | no trip one hour |      | no trip one hour |     | no trip one hour |      | no trip one hour |      | no trip one hour |      |
| 125                              | 100                                                         | 10   | 12               | .5   | 120              | 10   | 18               | 1    | 700              | 50  | N/A              | N/A  | N/A              | N/A  | N/A              | N/A  |
| 150                              | N/A                                                         | N/A  | N/A              | N/A  | N/A              | N/A  | N/A              | N/A  | 350              | 32  | 60               | 6    | 5.8              | .6   | 500              | 60   |
| 200                              | 20                                                          | 2.5  | 1.5              | .13  | 20               | 3    | 1.6              | .16  | 70               | 10  | 20               | 2.1  | 2                | .2   | 160              | 20   |
| 400                              | 2                                                           | .36  | .29              | .031 | 2.3              | .3   | .3               | .04  | 15               | 1.5 | 4                | .4   | .35              | .035 | 19               | 2    |
| 600                              | 1                                                           | .13  | .15              | Inst | 1                | .13  | .17              | Inst | 7                | .7  | .6               | Inst | .125             | Inst | 3.5              | .250 |
| 800                              | .6                                                          | Inst | .06              | Inst | .6               | Inst | .09              | Inst | 3                | .1  | .06              | Inst | .05              | Inst | .5               | .025 |
| 1,000                            | .29                                                         | Inst | .05              | Inst | .29              | Inst | .043             | Inst | 2                | .01 | .045             | Inst | .036             | Inst | .043             | Inst |
| 1,800 4/                         | no trip                                                     |      | no trip          |      | no trip          |      | no trip          |      | no trip          |     | no trip          |      | no trip          |      | no trip          |      |

See footnotes at end of table VIII.

TABLE V. Tripping-time, standard delay and high-inrush design (configuration 1). 1/ 2/ 3/

| Time delay percent rated current | Tripping-time delay at high and low temperature °C (tripping time in seconds) 5/ |          |                  |          |                  |          |                  |          |                  |          |                  |          |                  |          |                  |          |
|----------------------------------|----------------------------------------------------------------------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|
|                                  | 50 V dc                                                                          |          |                  |          | 240 V ac, 60 Hz  |          |                  |          |                  |          | 240 V ac, 400 Hz |          |                  |          |                  |          |
|                                  | A and K                                                                          |          | B and L          |          | C and M          |          | D and N          |          | T                |          | E and P          |          | F and R          |          | G and S          |          |
|                                  | -40° Max                                                                         | +85° Min | -40° Max         | +85° Min | -40° Max         | +85° Min | -40° Max         | +85° Min | -40° Max         | +85° Min | -40° Max         | +85° Min | -40° Max         | +85° Min | -40° Max         | +85° Min |
| 100                              | no trip one hour                                                                 |          | no trip one hour |          | no trip one hour |          | no trip one hour |          | no trip one hour |          | no trip one hour |          | no trip one hour |          | no trip one hour |          |
| 125                              | 500                                                                              | 5        | 100              | .1       | 500              | 1        | 100              | .1       | 8000             | 25       | N/A              | N/A      | N/A              | N/A      | N/A              | N/A      |
| 150                              | N/A                                                                              | N/A      | N/A              | N/A      | N/A              | N/A      | N/A              | N/A      | 900              | 12       | 500              | .5       | 100              | .1       | 1500             | 5        |
| 200                              | 100                                                                              | .1       | 10               | 0.05     | 100              | .05      | 10               | .05      | 500              | 5        | 100              | .1       | 10               | .5       | 500              | .5       |
| 400                              | 20                                                                               | Inst     | 3                | Inst     | 20               | Inst     | 3                | Inst     | 100              | .8       | 20               | Inst     | 3                | Inst     | 100              | Inst     |
| 600                              | 5                                                                                | Inst     | 1                | Inst     | 5                | Inst     | 1                | Inst     | 40               | .1       | 6                | Inst     | 1                | Inst     | 5                | Inst     |
| 800                              | 2                                                                                | Inst     | .5               | Inst     | .5               | Inst     | .5               | Inst     | 10               | .05      | .5               | Inst     | .5               | Inst     | .5               | Inst     |
| 1,000                            | N/A                                                                              | N/A      | N/A              | N/A      | N/A              | N/A      | N/A              | N/A      | 3                | .01      | N/A              | N/A      | N/A              | N/A      | N/A              | N/A      |

See footnotes at end of table VIII.

TABLE VI. Tripping-time, standard delay and high-inrush design (configuration 2). 1/ 2/ 3/

| Time<br>delay<br>percent<br>rated<br>current | Tripping-time delay at 25°C ±2°C (tripping time in seconds) |      |                     |       |                     |      |                     |      |                     |      |                     |      |                     |      |                     |      |
|----------------------------------------------|-------------------------------------------------------------|------|---------------------|-------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|---------------------|------|
|                                              | 50 V dc                                                     |      |                     |       | 240 V ac, 60 Hz     |      |                     |      |                     |      | 240 V ac, 400 Hz    |      |                     |      |                     |      |
|                                              | A and K                                                     |      | B and L             |       | C and M             |      | D and N             |      | T                   |      | E and P             |      | F and R             |      | G and S             |      |
|                                              | Max                                                         | Min  | Max                 | Min   | Max                 | Min  | Max                 | Min  | Max                 | Min  | Max                 | Min  | Max                 | Min  | Max                 | Min  |
| 100                                          | no trip<br>one hour                                         |      | no trip<br>one hour |       | no trip<br>one hour |      | no trip<br>one hour |      | no trip<br>one hour |      | no trip<br>one hour |      | no trip<br>one hour |      | no trip<br>one hour |      |
| 125                                          | 60                                                          | 7    | 6.5                 | 0.5   | 120                 | 10   | 12                  | 0.7  | 700                 | 50   | N/A                 | N/A  | N/A                 | N/A  | N/A                 | N/A  |
| 150                                          | N/A                                                         | N/A  | N/A                 | N/A   | N/A                 | N/A  | N/A                 | N/A  | 400                 | 30   | 70                  | 5    | 8                   | 0.5  | 400                 | 40   |
| 200                                          | 10                                                          | .6   | 1.2                 | 0.13  | 20                  | 2.2  | 3                   | 0.13 | 150                 | 10   | 25                  | 2.1  | 1.9                 | 0.15 | 150                 | 9.5  |
| 400                                          | 2                                                           | .15  | 0.5                 | 0.031 | 3                   | 0.3  | 1                   | 0.03 | 20                  | 1.5  | 5                   | 0.4  | 0.4                 | 0.02 | 19                  | 1.9  |
| 600                                          | 1                                                           | Inst | 0.25                | Inst  | 2                   | Inst | 0.3                 | Inst | 10                  | 0.4  | 2.4                 | Inst | 0.25                | Inst | 7                   | Inst |
| 800                                          | 0.5                                                         | Inst | 0.1                 | Inst  | 0.8                 | Inst | 0.15                | Inst | 8                   | Inst | 1                   | Inst | 0.1                 | Inst | 0.4                 | Inst |
| 1,000                                        | 0.1                                                         | Inst | Inst                | Inst  | 0.25                | Inst | 0.1                 | Inst | 6                   | Inst | 0.1                 | Inst | 0.05                | Inst | 0.043               | Inst |
| 1,800 <u>4/</u>                              | no trip                                                     |      | no trip             |       | no trip             |      | no trip             |      | no trip             |      | no trip             |      | no trip             |      | no trip             |      |

See footnotes at end of [table VIII](#).

TABLE VII. Tripping-time, high-low temperature standard delay and high-inrush delay (configuration 2). 1/ 2/ 3/

| Time delay percent rated current | Tripping-time delay at high and low temperature °C (tripping time in seconds) 5/ |          |                  |          |                  |          |                  |          |                  |          |                  |          |                  |          |                  |          |
|----------------------------------|----------------------------------------------------------------------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|
|                                  | 50 V dc                                                                          |          |                  |          | 240 V ac, 60 Hz  |          |                  |          |                  |          | 240 V ac, 400 Hz |          |                  |          |                  |          |
|                                  | A and K                                                                          |          | B and L          |          | C and M          |          | D and N          |          | T                |          | E and P          |          | F and R          |          | G and S          |          |
|                                  | -40° Max                                                                         | +85° Min | -40° Max         | +85° Min | -40° Max         | +85° Min | -40° Max         | +85° Min | -40° Max         | +85° Min | -40° Max         | +85° Min | -40° Max         | +85° Min | -40° Max         | +85° Min |
| 100                              | no trip one hour                                                                 |          | no trip one hour |          | no trip one hour |          | no trip one hour |          | no trip one hour |          | no trip one hour |          | no trip one hour |          | no trip one hour |          |
| 125                              | 500                                                                              | 5        | 100              | 0.1      | 700              | 1        | 100              | 0.1      | 8000             | 25       | N/A              | N/A      | N/A              | N/A      | N/A              | N/A      |
| 150                              | N/A                                                                              | N/A      | N/A              | N/A      | N/A              | N/A      | N/A              | N/A      | 1600             | 12       | 600              | 0.5      | 100              | 0.1      | 1500             | 5        |
| 200                              | 100                                                                              | .1       | 10               | 0.05     | 160              | 0.05     | 10               | 0.05     | 1200             | 5        | 130              | 0.1      | 10               | 0.05     | 500              | 0.5      |
| 400                              | 20                                                                               | Inst     | 3                | Inst     | 26               | Inst     | 3                | Inst     | 130              | 0.8      | 32               | Inst     | 3                | Inst     | 100              | Inst     |
| 600                              | 5                                                                                | Inst     | 1                | Inst     | 13               | Inst     | 1                | Inst     | 60               | 0.055    | 26               | Inst     | 1                | Inst     | 24               | Inst     |
| 800                              | 2                                                                                | Inst     | 0.5              | Inst     | 2.8              | Inst     | 0.5              | Inst     | 28               | Inst     | 8.4              | Inst     | 0.5              | Inst     | 3                | Inst     |
| 1,000                            | N/A                                                                              | N/A      | N/A              | N/A      | N/A              | N/A      | N/A              | N/A      | 10               | Inst     | N/A              | N/A      | N/A              | N/A      | N/A              | N/A      |

See footnotes at end of table VIII.

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TABLE VIII. Tripping-time, high-inrush nondelay (configuration 1 and 2). 1/ 2/

|                                              | Tripping-time delay at -40°C ±2°C, +25°C ±2°C, and +85°C ±2°C<br>(tripping time in seconds) |      |                     |      |                     |      |
|----------------------------------------------|---------------------------------------------------------------------------------------------|------|---------------------|------|---------------------|------|
| Time<br>delay<br>percent<br>rated<br>current | 50 V dc                                                                                     |      | 240 V ac, 60Hz      |      | 240 V ac, 400 Hz    |      |
|                                              | H (nondelay)                                                                                |      | I (nondelay)        |      | J (nondelay)        |      |
|                                              | Max                                                                                         | Min  | Max                 | Min  | Max                 | Min  |
| 100                                          | no trip<br>one hour                                                                         |      | no trip<br>one hour |      | no trip<br>one hour |      |
| 125                                          | 0.15                                                                                        | Inst | 0.15                | Inst | ---                 | ---  |
| 150                                          | ---                                                                                         | ---  | ---                 | ---  | 0.150               | Inst |
| 200                                          | 0.07                                                                                        | Inst | 0.05                | Inst | 0.070               | Inst |
| 400                                          | 0.032                                                                                       | Inst | 0.022               | Inst | 0.032               | Inst |
| 600                                          | 0.02                                                                                        | Inst | 0.017               | Inst | 0.020               | Inst |
| 800                                          | 0.02                                                                                        | Inst | 0.017               | Inst | 0.020               | Inst |

- 1/ Circuit breakers shall not trip at 100 percent rated current. Characteristics A, B, C, D, H, I, K, L, M, and N must trip at 125 percent rated current; E, F, G, J, P, R, and S at 150 percent. Any characteristic may trip between 100 percent and the must-trip value. Instantaneous (Inst) is defined as less than 15 milliseconds.
- 2/ Voltage, frequency, and tripping-time delay codes A, B, C, D, E, F, G, H, I, and J are standard delays without the high-inrush feature.
- 3/ Voltage, frequency, and time delay codes K, L, M, N, P, R, S, and T incorporate the high-inrush or transient suppression feature.
- 4/ High-inrush test shall be performed using one alternation which has a peak value of 1,800 percent of rated current. 400 Hz and dc delays are subjected to a 400 Hz waveform, 60 Hz delays shall be subjected to a 60 Hz waveform.
- 5/ High and low test temperature tolerances are ±2°C.

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TABLE IX. Supersession and substitution data.

Circuit breakers covered by this specification sheet are substitutable for the manufacturer's PINs as shown below. This information in no way implies that the manufacturer's PIN is substitutable for the military PIN.

| Superseding<br>military PIN | Superseded manufacturers<br>PIN                                                                                                                                 |            |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| M55629/2-XXX                | CAGE 81541                                                                                                                                                      | CAGE 74193 |
|                             | Type APL-1<br>UPL-1<br>IEL-1                                                                                                                                    | Type AM1   |
|                             | The complete PIN consists of the type (above) plus identification codes for comparable internal connections, voltage, frequency, time delay and current rating. |            |

Reference documents. In addition to [MIL-PRF-55629](#), this document references the following:

[ASTM-B16/B16M](#)      [ASTM-B121/B121M](#)      [ASTM-B139/B139M](#)      [ASTM-B545](#)  
[NASM35333](#)      [MS35335](#)      [NASM35338](#)

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Custodians:

Army - CR  
 Navy - EC  
 Air Force - 85  
 DLA - CC

Preparing activity:

Army - CR

Agent:

DLA - CC

Review activities:

Army - AV, CR4  
 Navy - AS, MC, OS  
 Air Force - 19

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