

# MERSEN DRIVE FUSE SELECTION TABLE

## ALLEN BRADLEY POWERFLEX 700 DC COMMON BUS

### 540VDC-650VDC

| 540 Volt DC Input | kW<br>Normal Duty | kW<br>Heavy Duty | I <sub>(A)</sub> DC Input | I <sub>(A)</sub> DC Output | I <sub>(A)</sub> 1 Minute | I <sub>(A)</sub> 3 Seconds | Fuses  |
|-------------------|-------------------|------------------|---------------------------|----------------------------|---------------------------|----------------------------|--------|
| 20BC8P7           | 4                 | 3                | 9.3                       | 8.7                        | 9.9                       | 13.2                       | HSJ20  |
| 20BC011           | 5.5               | 4                | 12.6                      | 11.5                       | 13                        | 17.4                       | HSJ25  |
| 20BC015           | 7.5               | 5.5              | 16.8                      | 15.4                       | 17.2                      | 23.1                       | HSJ30  |
| 20BC022           | 11                | 7.5              | 24                        | 22                         | 24.2                      | 33                         | HSJ45  |
| 20BC030           | 15                | 11               | 33.2                      | 30                         | 33                        | 45                         | HSJ60  |
| 20BC037           | 18.5              | 15               | 40.9                      | 37                         | 45                        | 60                         | HSJ80  |
| 20BC043           | 22                | 18.5             | 47.5                      | 43                         | 56                        | 74                         | HSJ90  |
| 20BC056           | 30                | 22               | 61.9                      | 56                         | 64                        | 86                         | HSJ110 |
| 20BC072           | 37                | 30               | 80.5                      | 72                         | 84                        | 112                        | HSJ150 |
| 20BC085           | –                 | 37               | 80.5                      | 72                         | 108                       | 144                        | HSJ150 |
| 20BC085           | 45                | –                | 95.1                      | 85                         | 94                        | 128                        | HSJ200 |
| 20BH105           | –                 | 45               | 95.1                      | 85                         | 128                       | 170                        | HSJ200 |
| 20BH105           | 55                | –                | 117.4                     | 105                        | 116                       | 158                        | HSJ200 |
| 20BH125           | –                 | 45               | 91.9                      | 96                         | 144                       | 168                        | HSJ150 |
| 20BH125           | 55                | –                | 139.8                     | 125                        | 138                       | 163                        | HSJ225 |
| 20BH140           | –                 | 55               | 117.4                     | 105                        | 158                       | 210                        | HSJ200 |
| 20BH140           | 75                | –                | 158.4                     | 140                        | 154                       | 210                        | HSJ300 |
| 20DH170           | –                 | 75               | 158.4                     | 140                        | 210                       | 280                        | HSJ300 |
| 20DH170           | 90                | –                | 192.4                     | 170                        | 187                       | 255                        | HSJ350 |
| 20DH205           | –                 | 90               | 192.4                     | 170                        | 255                       | 313                        | HSJ350 |
| 20DH205           | 110               | –                | 232                       | 205                        | 220                       | 289                        | HSJ400 |

| 650 Volt DC Input | kW<br>Normal Duty | kW<br>Heavy Duty | I <sub>(A)</sub> DC Input | I <sub>(A)</sub> DC Output | I <sub>(A)</sub> 1 Minute | I <sub>(A)</sub> 3 Seconds | Fuses  |
|-------------------|-------------------|------------------|---------------------------|----------------------------|---------------------------|----------------------------|--------|
| 20BD8P0           | 5                 | 3                | 8.1                       | 8                          | 8.8                       | 12                         | HSJ15  |
| 20BD011           | 7.5               | 5                | 11.1                      | 11                         | 12.1                      | 16.5                       | HSJ20  |
| 20BD014           | 10                | 7.5              | 14.7                      | 14                         | 16.5                      | 22                         | HSJ30  |
| 20BD022           | 15                | 10               | 23.3                      | 22                         | 24.2                      | 33                         | HSJ45  |
| 20BD027           | 20                | 15               | 28.9                      | 27                         | 33                        | 44                         | HSJ60  |
| 20BD034           | 25                | 20               | 36.4                      | 34                         | 40.5                      | 54                         | HSJ70  |
| 20BD040           | 30                | 25               | 42.9                      | 40                         | 51                        | 68                         | HSJ80  |
| 20BD052           | 40                | 30               | 55.7                      | 52                         | 60                        | 80                         | HSJ100 |
| 20BD065           | 50                | 40               | 69.7                      | 65                         | 78                        | 104                        | HSJ150 |
| 20BR077           | –                 | 50               | 67.9                      | 65                         | 98                        | 130                        | HSJ150 |
| 20BR077           | 60                | –                | 84.5                      | 77                         | 85                        | 116                        | HSJ150 |
| 20BR096           | –                 | 60               | 84.5                      | 77                         | 116                       | 154                        | HSJ150 |
| 20BR096           | 75                | –                | 105.3                     | 96                         | 106                       | 144                        | HSJ200 |
| 20BR125           | –                 | 75               | 105.3                     | 96                         | 144                       | 168                        | HSJ200 |
| 20BR125           | 100               | –                | 137.1                     | 125                        | 138                       | 163                        | HSJ250 |
| 20BR156           | –                 | 100              | 137.1                     | 125                        | 188                       | 250                        | HSJ250 |
| 20BR156           | 125               | –                | 171.2                     | 156                        | 172                       | 234                        | HSJ300 |
| 20BR180           | –                 | 125              | 171.2                     | 156                        | 234                       | 312                        | HSJ300 |
| 20BR180           | 150               | –                | 204.1                     | 180                        | 198                       | 270                        | HSJ400 |

Mersen HSJ fuses are intended to provide both branch circuit and drive protection. Fuse selection must be in accordance with drive manufacturers' recommendations and conform to applicable national and local electrical codes. Recommended fuse ratings were selected for the maximum HP specified for the drive by the manufacturer, based on the most currently available information at the time. Fuses shown will minimize the amount of energy passed by the fuse under short circuit conditions, however, in some cases, component damage may result. Recommended HSJ fuse sizes for non-bypass mode applications only.