|  |
| --- |
| ● **Capacitor Bank Protected by Fuses** |
| Where external protection of the capacitor units from long-term **overloading** or **short-circuiting** is to be provided, a value between **1.43** and **1.8** times rated current should be adopted. The **fuses** should be of the **slow-blow**ing type **owing to the high momentary current at make**. |
|  **Output Unit/ Equipment (kVAr)** | **Rated Capacitance (µF)** | **Rated Current (Amps)** | **Cross section for 4/C Cu cable (mm2)** | **Fuse Current Slow-blow (Amps)** |
| 10 | 3 x 66.3 | 14.4 | 4 | 25 |
| 12.5 | 3 x 82.9 | 18.0 | 6 | 35 |
| 15 | 3 x 99.5 | 21.6 | 6 | 35 |
| 20 | 3 x 132.6 | 28.8 | 10 | 50 |
| 25 | 3 x 165.8 | 36.1 | 16 | 63 |
| 30 | 3 x 198.9 | 43.3 | 25 | 80 |
| 40 | 3x 265.3 | 57.7 | 35 | 100 |
| 50 | 3 x 331.6 | 72.1 | 50 | 125 |
| 60 | 3 x 397.6 | 86.6 | 70 | 160 |
| 70 | 3 x 464.2 | 101 | 70 | 160 |
| 90 | 3 x 596.8 | 130 | 120 | 250 |
| 100 | 3 x 663.1 | 144 | 120 | 250 |
| 125 | 3 x 828.9 | 180 | 185 | 300 |
| 150 | 3 x 994.7 | 217 | 240 | 315 |
| 180 | 3 x 1193.7 | 260 | 240 | 400 |
| 200 | 3 x 1326.3 | 280 | 240 | 400 |
| 250 | 3 x 1657.9 | 361 | 240 | 400 |
| 300 | 3 x 1989.4 | 433 | 400 | 630 |
|  **Connecting cables** should be designed for **1.5 times the rated current** values and upwards. |
| The diameter for cables and the fuse ratings are minimum values valid for operation under normal conditions and at an ambient temperature of **300C**; higher values shall be selected if conditions differ from normal (e.g. in case of **harmonics**). |