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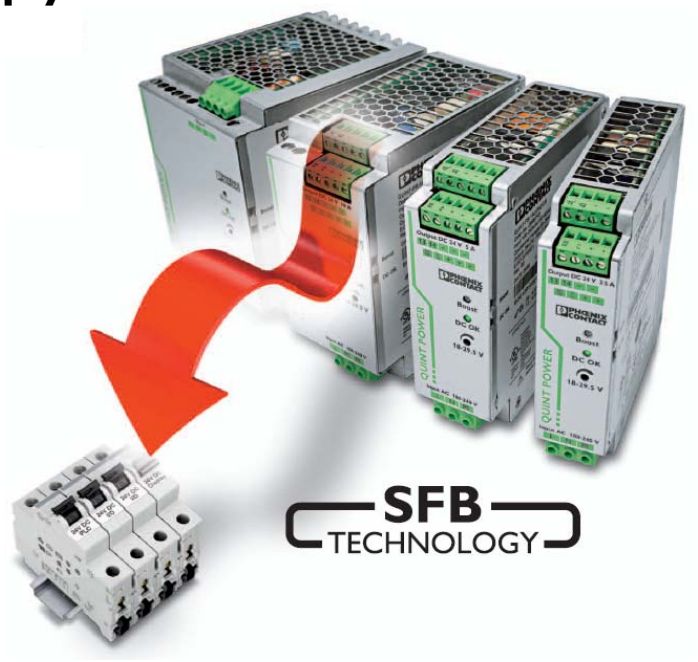
# QUINT POWER power supply units – Highest system availability due to SFB-Technology

## Standard circuit-breakers triggered reliably and quickly!

In order to be able to trigger standard circuit-breakers magnetically and quickly the SFB technology supplies up to six times the nominal current for 12 ms.




| cable cross-section | 0,75 mm² | 1,0 mm² | 1,5 mm² | 2,5 mm² | 4,0 mm² | 6,0 mm² | 10,0 mm² |
|---|---|---|---|---|---|---|---|
| **24V/5 A QUINT POWER with SFB Technology** | | | | | | | |
| Distance with standard circuit-breaker C2 | 5 m | 7 m | 11 m | 19 m | | | |
| **24V/10 A QUINT POWER with SFB Technology** | | | | | | | |
| Distance with standard circuit-breaker C2 | 14 m | 19 m | 29 m | 49 m | | | |
| Distance with standard circuit-breaker C4 | 4 m | 5 m | 8 m | 14 m | | | |
| Distance with standard circuit-breaker B6 | 9 m | 12 m | 18 m | 30 m | | | |
| **24V/20 A QUINT POWER with SFB Technology** | | | | | | | |
| Distance with standard circuit-breaker C2 | 14 m | 19 m | 29 m | 49 m | 79 m | < 100 m | |
| Distance with standard circuit-breaker C4 | 8 m | 11 m | 17 m | 29 m | 47 m | 70 m | |
| Distance with standard circuit-breaker C6 | 4 m | 5 m | 8 m | 14 m | 22 m | 33 m | |
| Distance with standard circuit-breaker B6 | 12 m | 17 m | 25 m | 42 m | 68 m | < 100 m | |
| Distance with standard circuit-breaker B10 | | 9 m | 13 m | 23 m | 37 m | 55 m | |
| Distance with standard circuit-breaker B16 | | | 5 m | 9 m | 15 m | 22 m | |
| **24V/40 A QUINT POWER with SFB Technology** | | | | | | | |
| Distance with standard circuit-breaker C2 | 14 m | 19 m | 29 m | 49 m | 79 m | < 100 m | < 150 m |
| Distance with standard circuit-breaker C4 | 8 m | 11 m | 17 m | 29 m | 47 m | 70 m | < 100 m |
| Distance with standard circuit-breaker C6 | 6 m | 8 m | 12 m | 20 m | 32 m | 48 m | 81 m |
| Distance with standard circuit-breaker C10 | | 3 m | 5 m | 9 m | 14 m | 21 m | 36 m |
| Distance with standard circuit-breaker C13 | | | 3 m | 5 m | 8 m | 13 m | 22 m |
| Distance with standard circuit-breaker B6 | 12 m | 17 m | 25 m | 42 m | 68 m | < 100 m | < 150 m |
| Distance with standard circuit-breaker B10 | | 10 m | 16 m | 27 m | 43 m | 65 m | < 100 m |
| Distance with standard circuit-breaker B16 | | | 8 m | 14 m | 23 m | 35 m | 58 m |
| Distance with standard circuit-breaker B20 | | | | 9 m | 15 m | 23 m | 38 m |
| Distance with standard circuit-breaker B25 | | | | 6 m | 10 m | 15 m | 25 m |

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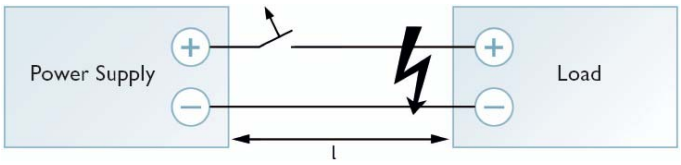
| cable cross-section | 0,75 mm² | 1,0 mm² | 1,5 mm² | 2,5 mm² | 4,0 mm² | 6,0 mm² | 10,0 mm² |
|---|---|---|---|---|---|---|---|
| **48V/5 A QUINT POWER with SFB Technology** | | | | | | | |
| Distance with standard circuit-breaker C2 | 17 m | 23 m | 35 m | 58 m | | | |
| **48V/10 A QUINT POWER with SFB Technology** | | | | | | | |
| Distance with standard circuit-breaker C2 | 35 m | 47 m | 71 m | < 100 m | < 150 m | < 250 m | |
| Distance with standard circuit-breaker C4 | 10 m | 13 m | 20 m | 34 m | 54 m | 81 m | |
| Distance with standard circuit-breaker B6 | 19 m | 25 m | 38 m | 64 m | < 100 m | < 150 m | |
| **48V/20A QUINT POWER with SFB Technology** | | | | | | | |
| Distance with standard circuit-breaker C2 | 35 m | 47 m | 71 m | < 100 m | < 170 m | < 270 m | < 400 m |
| Distance with standard circuit-breaker C4 | 16 m | 21 m | 32 m | 54 m | 87 m | < 120 m | < 200 m |
| Distance with standard circuit-breaker C6 | 7 m | 10 m | 15 m | 25 m | 40 m | 61 m | < 100 m |
| Distance with standard circuit-breaker B2 | 76 m | 101 m | < 150 m | < 250 m | < 400 m | < 600 m | < 1000 m |
| Distance with standard circuit-breaker B4 | 40 m | 53 m | 80 m | < 120 m | < 200 m | < 300 m | < 500 m |
| Distance with standard circuit-breaker B6 | 26 m | 35 m | 53 m | 89 m | < 140 m | < 200 m | < 340 m |
| Distance with standard circuit-breaker B10 | 11 m | 15 m | 23 m | 39 m | 62 m | 94 m | < 150 m |

The indicated values specify the distance (l) from the power supply to the load. The following margin parameters form the basis of the calculation:

- Standard circuit-breaker of Siemens, Characteristic B and C (e.g. B6: 5SY6106-6).
- Electromagnetic triggering of the standard circuit-breaker at:
  - Charakteristic B:
    (5 x rated current) x (correction factor 1.2 at 0 Hz) =
    6 x rated current
  - Charakteristic C:
    (10 x rated current) x (correction factor 1.2 at 0 Hz) =
    12 x rated current
- Ambient temperature: + 20 °C
- The internal resistances of the standard circuit-breakers have been considered
- In addition to the short-circuit current, the respective power supply unit supplies half the nominal current for parallel connected loads

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Est.1899

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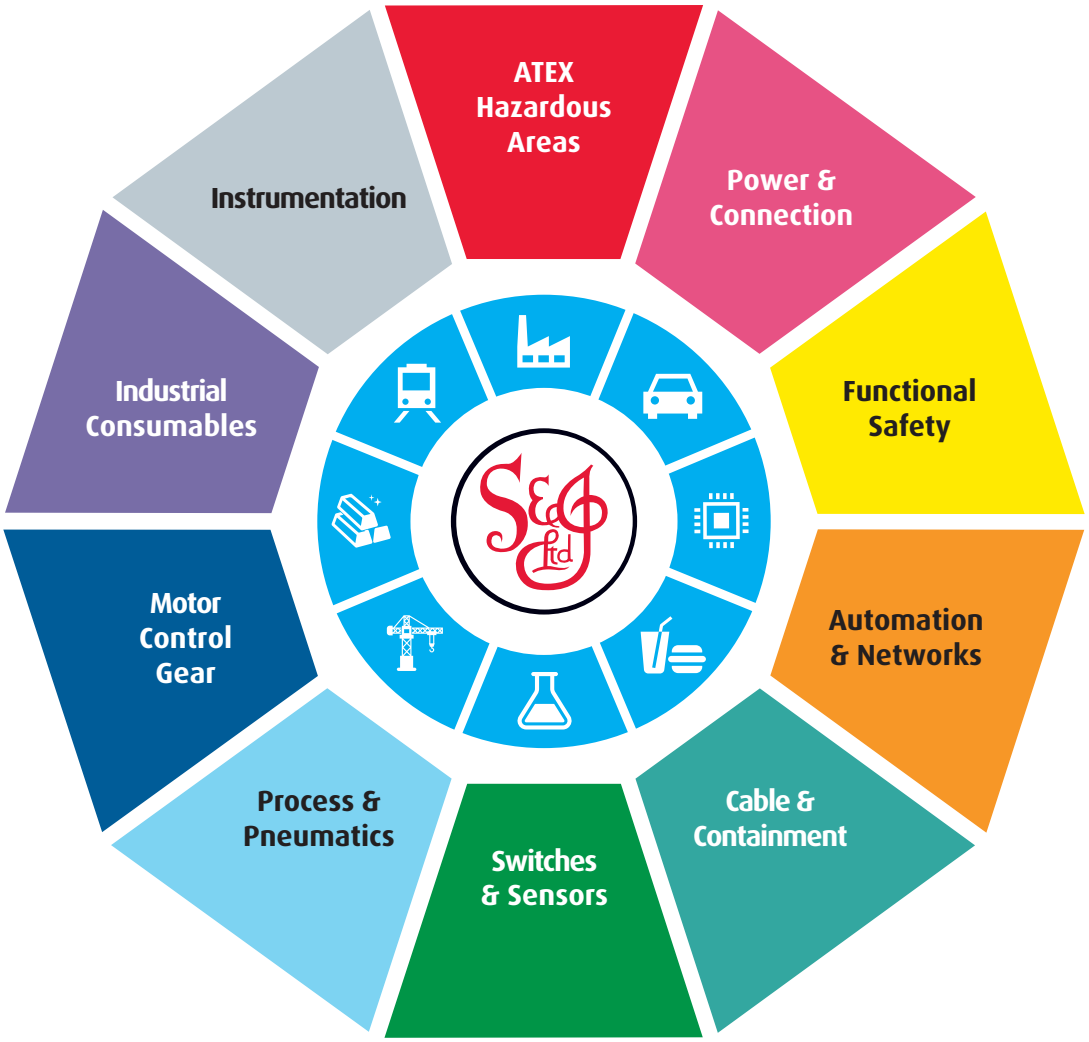


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