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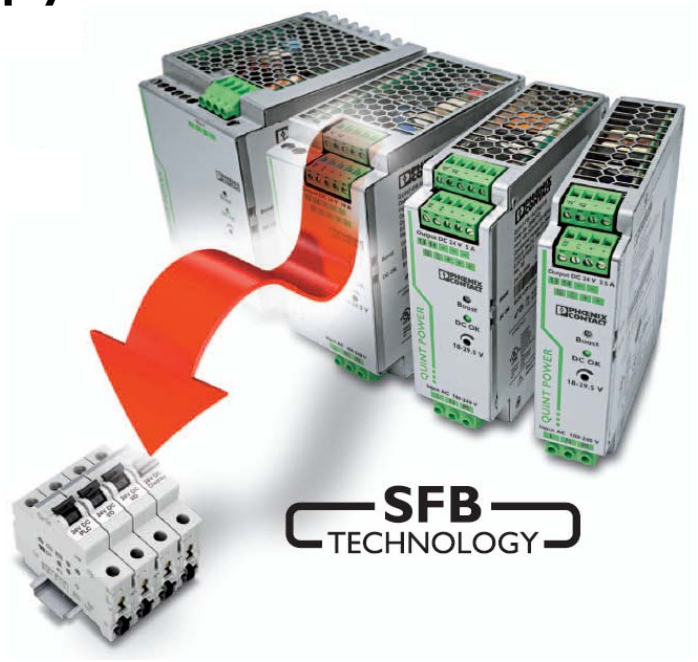
QUINT POWER power supply units – Highest system availability due to SFB-Technology

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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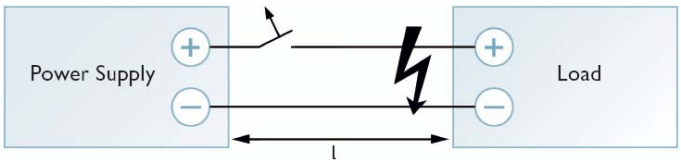
cable cross-section	0,75 mm²	1,0 mm²	1,5 mm²	2,5 mm²	4,0 mm²	6,0 mm²	10,0 mm²
48V/5 A QUINT POWER with SFB Technology							
Distance with standard circuit-breaker C2	17 m	23 m	35 m	58 m			
48V/10 A QUINT POWER with SFB Technology							
Distance with standard circuit-breaker C2	35 m	47 m	71 m	< 100 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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ELECTRICAL ENGINEERING & FLUID CONTROL DISTRIBUTORS
Est.1899

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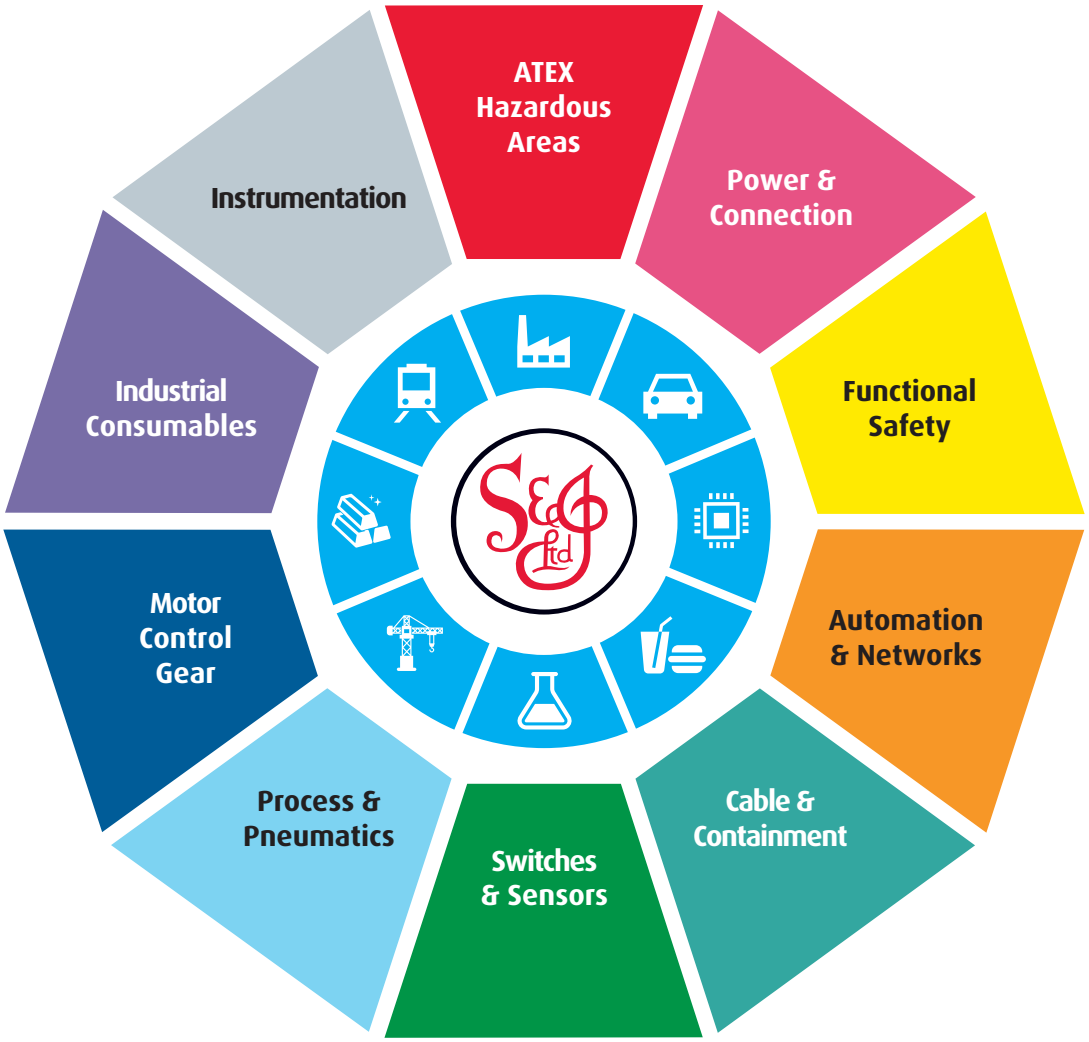

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