

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.



SFB
TECHNOLOGY

cable cross-section	0,75 mm ²	1,0 mm ²	1,5 mm ²	2,5 mm ²	4,0 mm ²	6,0 mm ²	10,0 mm ²
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24V/5A QUINT POWER with SFB Technology							
Distance with standard curcuit-breaker C2	5 m	7 m	11 m	19 m			

24V/10A QUINT POWER with SFB Technology							
Distance with standard curcuit-breaker C2	14 m	19 m	29 m	49 m			
Distance with standard curcuit-breaker C4	4 m	5 m	8 m	14 m			
Distance with standard curcuit-breaker B6	9 m	12 m	18 m	30 m			

24V/20A QUINT POWER with SFB Technology							
Distance with standard curcuit-breaker C2	14 m	19 m	29 m	49 m	79 m	118 m	
Distance with standard curcuit-breaker C4	8 m	11 m	17 m	29 m	47 m	70 m	
Distance with standard curcuit-breaker C6	4 m	5 m	8 m	14 m	22 m	33 m	
Distance with standard curcuit-breaker B6	12 m	17 m	25 m	42 m	68 m	103 m	
Distance with standard curcuit-breaker B10		9 m	13 m	23 m	37 m	55 m	
Distance with standard curcuit-breaker B16			5 m	9 m	15 m	22 m	

24V/40A QUINT POWER with SFB Technology							
Distance with standard curcuit-breaker C2	14 m	19 m	29 m	49 m	79 m	118 m	198 m
Distance with standard curcuit-breaker C4	8 m	11 m	17 m	29 m	47 m	70 m	117 m
Distance with standard curcuit-breaker C6	6 m	8 m	12 m	20 m	32 m	48 m	81 m
Distance with standard curcuit-breaker C10		3 m	5 m	9 m	14 m	21 m	36 m
Distance with standard curcuit-breaker C13			3 m	5 m	8 m	13 m	22 m
Distance with standard curcuit-breaker B6	12 m	17 m	25 m	42 m	68 m	103 m	171 m
Distance with standard curcuit-breaker B10		10 m	16 m	27 m	43 m	65 m	108 m
Distance with standard curcuit-breaker B16			8 m	14 m	23 m	35 m	58 m
Distance with standard curcuit-breaker B20				9 m	15 m	23 m	38 m
Distance with standard curcuit-breaker B25				6 m	10 m	15 m	25 m

cable cross-section	0,75 mm ²	1,0 mm ²	1,5 mm ²	2,5 mm ²	4,0 mm ²	6,0 mm ²	10,0 mm ²
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48V/5A QUINT POWER with SFB Technology

Distance with standard circuit-breaker C2	17 m	23 m	35 m	58 m			
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48V/10A QUINT POWER with SFB Technology

Distance with standard circuit-breaker C2	35 m	47 m	71 m	119 m	191 m	287 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	103 m	155 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:
 - Characteristic B:
(5x rated current) x (correction factor 1.2 at 0 Hz) = 6x rated current
 - Characteristic C:
(10x rated current) x (correction factor 1.2 at 0 Hz) = 12x 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 (Status April 2010)

