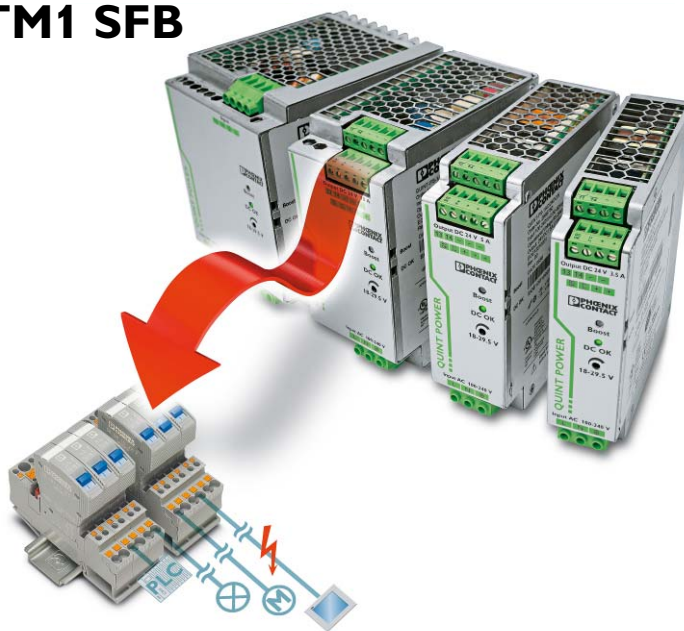


# Configuration Matrix

## Device circuit breakers CB TM1 SFB

Planning aid to the secondary side of your power supply

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 (mm <sup>2</sup> )	0,75	1,0	1,5	2,5	4,0
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### 24V/5 A QUINT POWER with SFB-Technology

Distance with CB TM1 1A SFB P	27 m	36 m	54 m	91 m	
Distance with CB TM1 2A SFB P	10 m	13 m	20 m	34 m	

### 24V/10 A QUINT POWER with SFB-Technology

Distance with CB TM1 1A SFB P	27 m	36 m	54 m	91 m	
Distance with CB TM1 2A SFB P	18 m	25 m	37 m	63 m	
Distance with CB TM1 3A SFB P	11 m	15 m	22 m	38 m	
Distance with CB TM1 4A SFB P	6 m	8 m	13 m	22 m	
Distance with CB TM1 5A SFB P	4 m	5 m	8 m	14 m	

### 24V/20 A QUINT POWER with SFB-Technology

Distance with CB TM1 1A SFB P	27 m	36 m	54 m	91 m	130 m
Distance with CB TM1 2A SFB P	18 m	25 m	37 m	63 m	100 m
Distance with CB TM1 3A SFB P	13 m	18 m	27 m	46 m	73 m
Distance with CB TM1 4A SFB P	10 m	14 m	21 m	35 m	57 m
Distance with CB TM1 5A SFB P	8 m	11 m	17 m	29 m	46 m
Distance with CB TM1 6A SFB P	6 m	8 m	12 m	20 m	32 m
Distance with CB TM1 8A SFB P		5 m	7 m	12 m	20 m
Distance with CB TM1 10A SFB P		3 m	4 m	8 m	13 m

### 24V/40 A QUINT POWER with SFB-Technology

Distance with CB TM1 1A SFB P	27 m	36 m	54 m	91 m	130 m
Distance with CB TM1 2A SFB P	18 m	25 m	37 m	63 m	100 m
Distance with CB TM1 3A SFB P	13 m	18 m	27 m	46 m	73 m
Distance with CB TM1 4A SFB P	10 m	14 m	21 m	35 m	57 m
Distance with CB TM1 5A SFB P	8 m	11 m	17 m	29 m	46 m

cable cross-section (mm <sup>2</sup> )	0,75	1,0	1,5	2,5	4,0
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#### 24V/40 A QUINT POWER with SFB-Technology

Distance with CB TM1 6A SFB P	7 m	9 m	14 m	24 m	39 m
Distance with CB TM1 8A SFB P		7 m	11 m	19 m	31 m
Distance with CB TM1 10A SFB P		5 m	7 m	12 m	20 m
Distance with CB TM1 12A SFB P			5 m	9 m	14 m
Distance with CB TM1 16A SFB P			3 m	5 m	8 m

#### 48V/5 A QUINT POWER with SFB-Technology

Distance with CB TM1 1A SFB P	77 m	100 m	140 m	220 m	
Distance with CB TM1 2A SFB P	27 m	36 m	54 m	91 m	

#### 48V/10 A QUINT POWER with SFB-Technology

Distance with CB TM1 1A SFB P	77 m	100 m	140 m	250 m	380 m
Distance with CB TM1 2A SFB P	44 m	58 m	88 m	140 m	200 m
Distance with CB TM1 3A SFB P	25 m	34 m	51 m	86 m	110 m
Distance with CB TM1 4A SFB P	14 m	19 m	29 m	49 m	79 m
Distance with CB TM1 5A SFB P	9 m	12 m	19 m	32 m	51 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:

- Device circuit breakers CB TM1 xA SFB P
- Electromagnetic triggering of the device circuit breakers latest to:
  - 10 x rated current
- Ambient temperature: + 20 °C
- The internal resistances of the device 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: May 2012)

