

Leakage current Problem analysis questionnaire



Name: _____

Company: _____

Post code / City: _____

E-Mail / Phone: _____

Department: _____

1. Residual current circuit breaker / differential current monitoring

Which residual current circuit breaker / residual current monitor is used?

Nominal current	<input type="checkbox"/> 16 A	<input type="checkbox"/> 25 A	<input type="checkbox"/> 40 A	<input type="checkbox"/> 63 A	<input type="checkbox"/> 80 A	<input type="checkbox"/> 100 A	<input type="checkbox"/> 125 A	<input type="checkbox"/> >125 A
Rated fault current	<input type="checkbox"/> 0,03 A	<input type="checkbox"/> 0,3 A	<input type="checkbox"/> 0,5 A	<input type="checkbox"/> adjustable				
RCD type	<input type="checkbox"/> EPA RCCB1	<input type="checkbox"/> EPA RCCB2	<input type="checkbox"/> A	<input type="checkbox"/> B	<input type="checkbox"/> B+	<input type="checkbox"/> F		
Manufacturer	<input type="checkbox"/> EPA	<input type="checkbox"/> others	_____					
Type designation	_____							

2. Potential causes of leakage currents

Which loads are connected to the residual current circuit breaker / residual current monitor?

<input type="checkbox"/> VFD / Inverter	<input type="checkbox"/> Servo drive	<input type="checkbox"/> Converter	<input type="checkbox"/> EMC filter	<input type="checkbox"/> Power supply
<input type="checkbox"/> 1-phase	<input type="checkbox"/> 3-phase	<input type="checkbox"/> 3-phase with neutral		

Manufacturer _____

Type designation _____

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Number of inverters _____ piece(s)

Motor cable length _____ meters screened not screened

Switching frequency ≤ 4 kHz > 4 kHz _____ kHz

3. Conditions

When does the residual current circuit breaker / differential current monitoring trip?

Turn on Turn off sporadically Inverter turn on
 Motor turn on _____

Has a leakage current measurement been carried out? no yes

4. EMC measures

Are EMC filters used in the system?

EMC filter used? no 3-phase 4-line (with N) low leakage type
 Manufacturer EPA others _____

Type designation _____

Motor / Output filter used? no Sinus filter Motor choke

Manufacturer EPA others _____

Type designation _____

Inverter with internal EMC filter? no yes disabled