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| DATENBLATT / DATA SHEET | Seite: 1/6 |
| Typ: KEB-Filter 16E6T60-3000 | REV: B |



Allgemeine Beschreibung / General description

| | | |
|---|--|---|
| Filtertyp | Type of filter | Filter für / filter for f = 0,15 – 30 MHz |
| Leiteranzahl | Number of phases | 3 ph + PE / Ground |
| Anschluss: Printklemme Federkraftanschluss | Connection: print terminal Spring-cage connection | 0,75-16mm ² / AWG 20-AWG6 |
| PE-Verbindungen (Anzugsmoment) | Ground connections (tightening torque) | Schrauben M4/ screws M4 (1,7Nm / 15 lb inch) |

Elektrische Daten / Electrical data

| | | | |
|--|--------|--|---------------------------|
| Eingangsspannung <i>input voltage</i> | [V] | 3 x 400/480 (U _{max} =550V) UL: WYE 480/277V | |
| Nennfrequenz <i>rated frequency</i> | [Hz] | 50 / 60 +/- 2 | |
| maximale Umgebungstemperatur (T _{max}) <i>maximum ambient temperature(T_{max})</i> | [°C] | 45 | |
| Nennstrom (I _N bei T _{max}) <i>rated current (I_N at T_{max})</i> | [A] | 43 | |
| Verlustleistung (bei I _N) <i>power dissipation (at I_N)</i> | [W] | 17,5 | |
| Ableitstrom (im Betrieb / 50Hz) <i>Leakage current (normal condition / 50 Hz)</i> | [mA] | 1,27 | |
| max. Ableitstrom (eine Phase => PE) <i>max leakage current (one phase => PE)</i> | [mA] | Siehe Ableitstrom - Grafik <i>See grafic of leakage current</i> | |
| Gewicht <i>Weight</i> | [kg] | 1,800 | |
| DC- Widerstand <i>DC - resistance</i> | [Ohm] | 0,004(per phase) | |
| Prüfspannungen / HV – Test Voltage Phase -> Phase Phase -> PE | [V dc] | 800 2700 | Zeit / Time 2 s 2 s |
| Klimakategorie (gem EN50178) <i>Category for Climate</i> | | 3K3 | |
| Approbation <i>Approbation</i> | | CE / UL / cUL | |
| UL-Strom (I _{UL} bei T _{max} und U _{UL}) UL-curren (I _{UL} at T _{max} and U _{UL}) | [A] | 35 | |

EMV - Daten nach EN 61800-3 / datas for EMC based on EN 61800-3

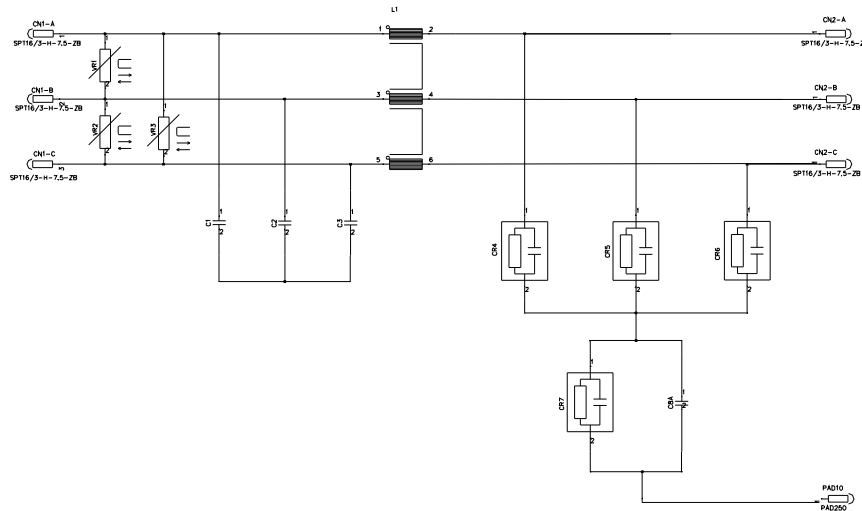
Angaben beziehen sich auf die leitungs-
geführten Störungen am Netzeingang

Values are given for conducted disturbance
on AC - power input wiring

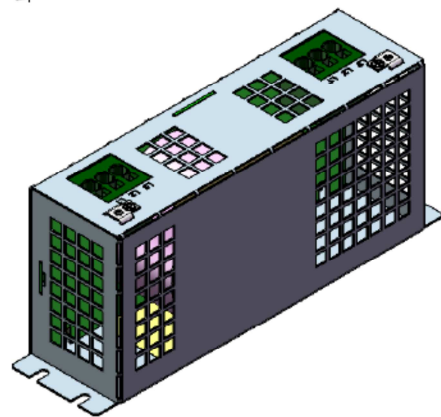
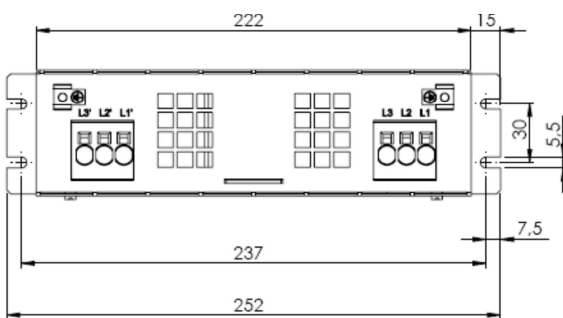
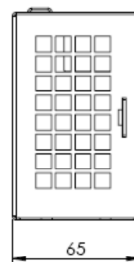
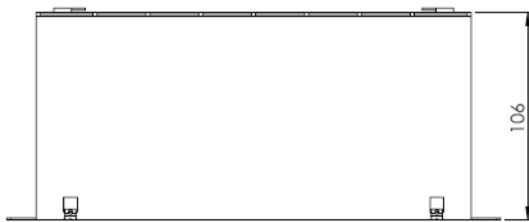
| | | |
|-------------------------------------|------------|--------------------------|
| Schaltfrequenz / switchingfrequency | EN 61800-3 | Motorleitung/motor cable |
| 2-8kHz | C1[B] | bis/up to 50 m |
| 2-16kHz | C1[B] | bis/up to 30 m |
| 2-16kHz | C2[A] | bis/up to 100 m |



Prinzipschaltbild Filter / Schematics of filter

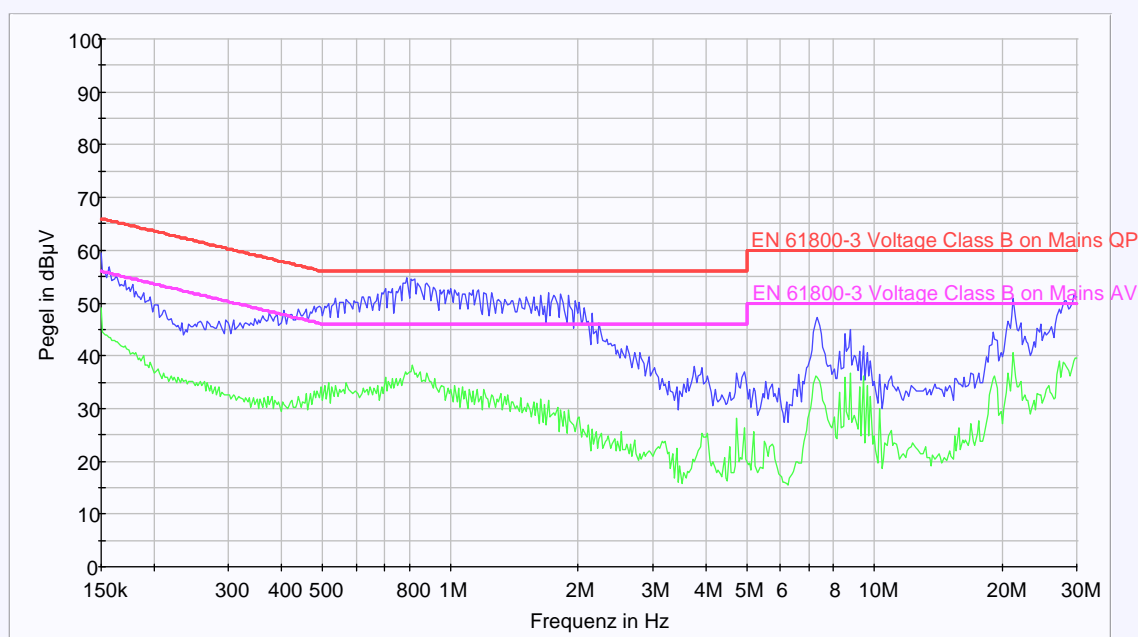


Mechanischer Aufbau (Prinzip) / Mechanical outline



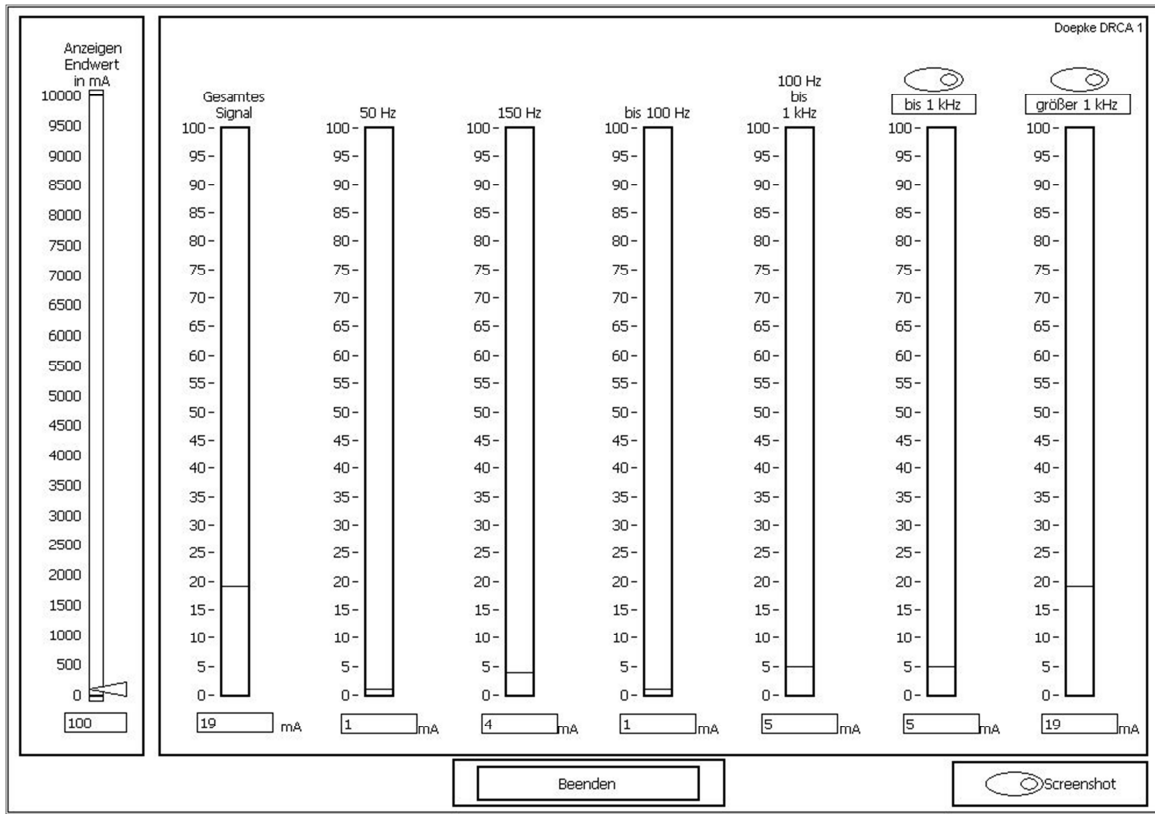
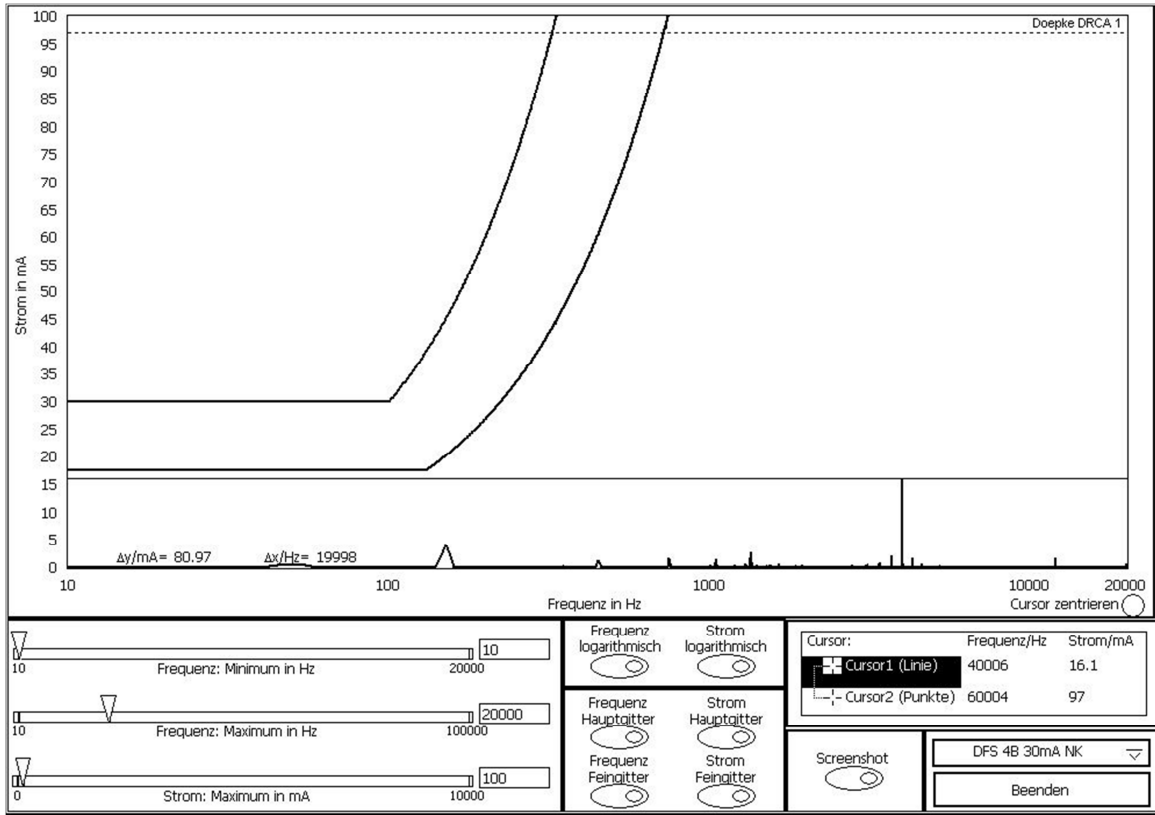
Meßprotokoll / Result of Measurement

| | | |
|--|---|--|
| Frequenzumrichter | <i>Inverter</i> | KEB: 16F5M1E-350A |
| Motor | <i>motor</i> | z.B. 5,5 kW / 4 pol / 50 Hz (isoliert / isolated) |
| Motorleitungslänge | <i>Length of motor wiring</i> | 50 m |
| Motorkabeltyp | <i>Typ of cable</i> | Lapp ÖLFLEX 110 CY |
| Netznachbildung | <i>Artificial line</i> | Schwarzbeck, NSLK 8126 |
| Messempfänger | <i>EMI - Receiver</i> | Rohde & Schwarz, ESPC 9kHz-1GHz |
| Grenzwertklasse | <i>Limit of disturbance</i> | C1 nach EN61800-3 (B nach EN55011) C1 of EN61800-3 (B of EN55011) |
| Messung der Störspannung | <i>Measurement of conducted voltage</i> | Phase => PE |
| Parameter: - Schaltfrequenz - Ausgangsfrequenz - Spannungsanhebung - Belastung | <i>Conditions</i> - <i>Switching frequency</i> - <i>Motor fequency</i> - <i>Boost</i> - <i>Load</i> | 4 kHz 5 Hz 0 % 20 % |





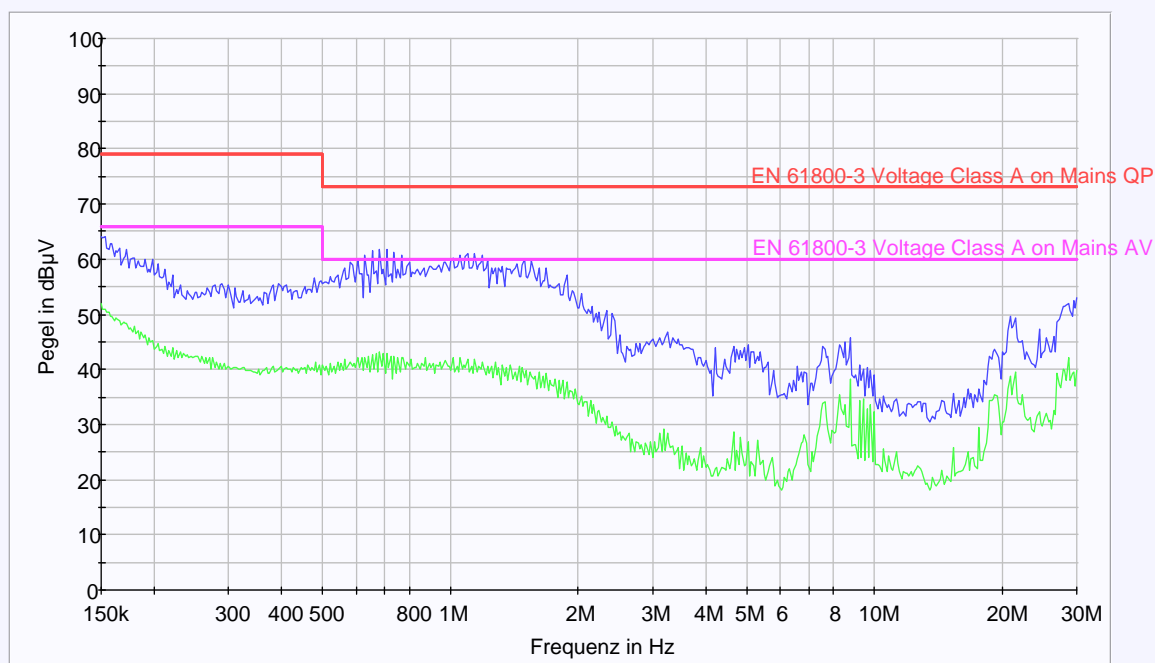
Ableitstrom bei 4kHz /50m / Leakage current by 4kHz/50m





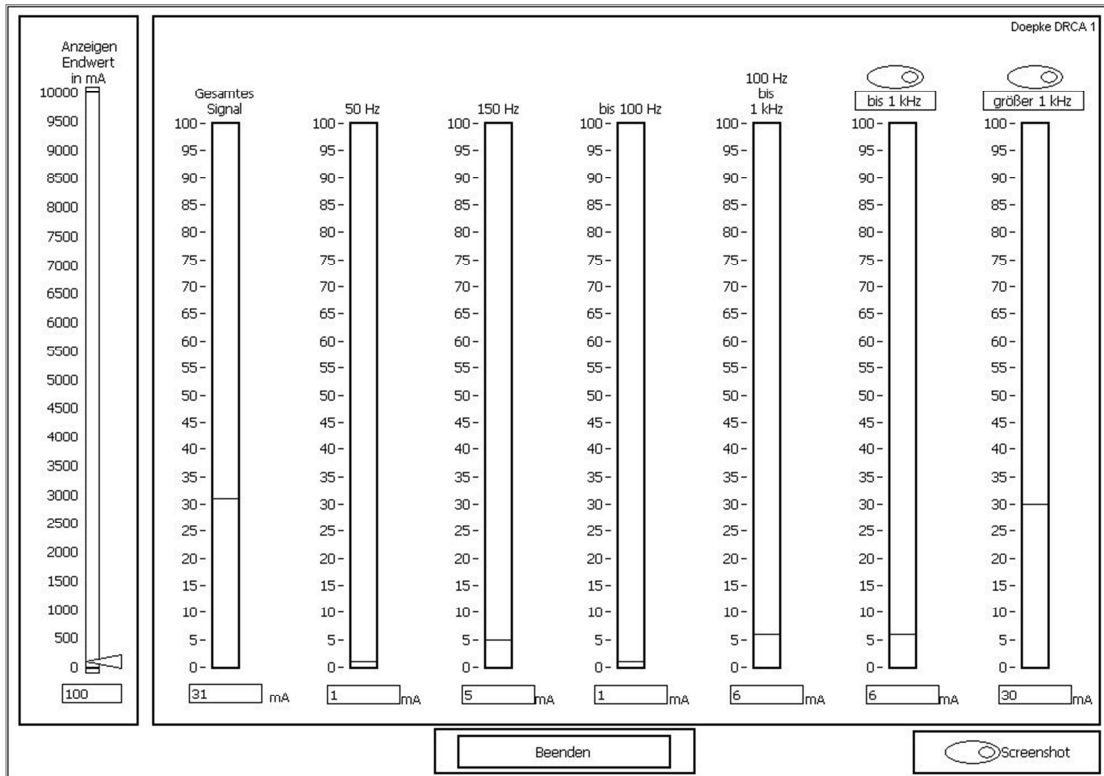
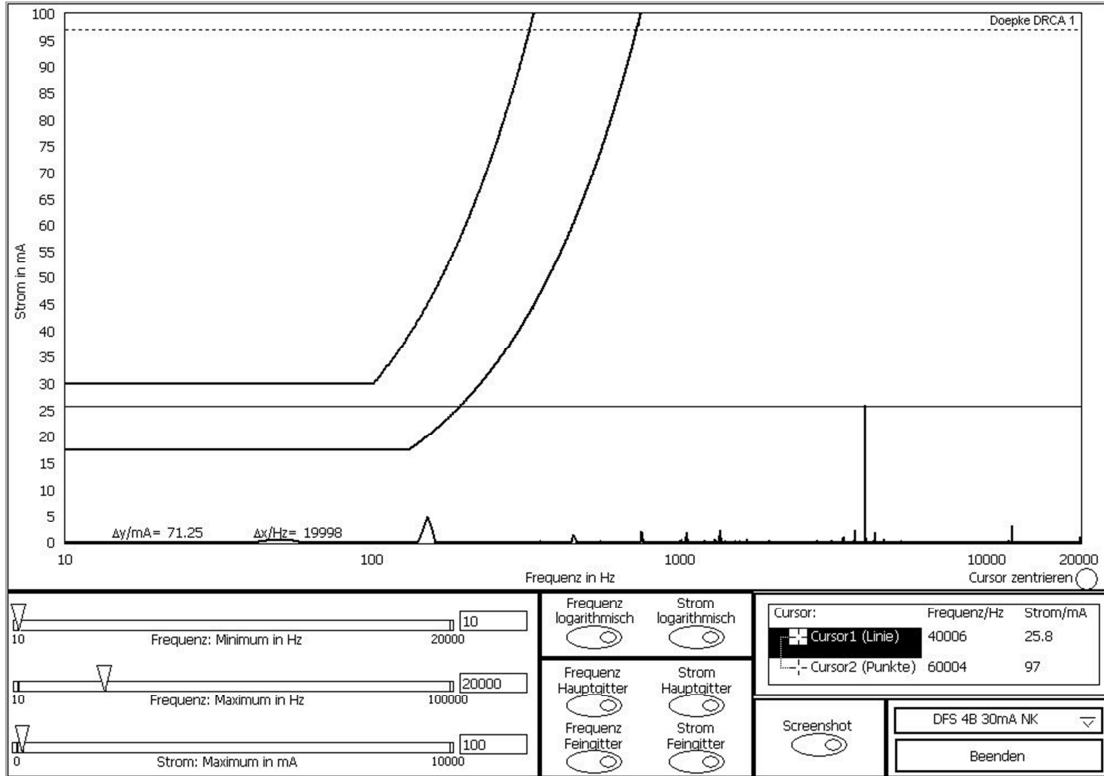
Meßprotokoll / Result of Measurement

| | | |
|--|---|--|
| Frequenzumrichter | <i>Inverter</i> | KEB: 16F5M1E-350A |
| Motor | <i>motor</i> | z.B. 5,5 kW / 4 pol / 50 Hz (isoliert / isolated) |
| Motorleitungslänge | <i>Length of motor wiring</i> | 100 m |
| Motorkabeltyp | <i>Typ of cable</i> | Lapp ÖLFLEX 110 CY |
| Netznachbildung | <i>Artificial line</i> | Schwarzbeck, NSLK 8126 |
| Messempfänger | <i>EMI - Receiver</i> | Rohde & Schwarz, ESPC 9kHz-1GHz |
| Grenzwertklasse | <i>Limit of disturbance</i> | C2 nach EN61800-3 (A nach EN55011) C2 of EN61800-3 (A of EN55011) |
| Messung der Störspannung | <i>Measurement of conducted voltage</i> | Phase => PE |
| Parameter: - Schaltfrequenz - Ausgangsfrequenz - Spannungsanhebung - Belastung | <i>Conditions</i> - <i>Switching frequency</i> - <i>Motor fequency</i> - <i>Boost</i> - <i>Load</i> | 4 kHz 5 Hz 0 % 20 % |





Ableitstrom bei 4kHz/100m / Leakage current by 4kHz/100m



| | | | | | |
|-----------|----------|----------|----------|--------------|----------|
| Erstellt: | Softic | Geprüft: | Erasmie | Freigegeben: | Softic |
| Datum: | 28.06.10 | Datum: | 09.11.10 | Datum: | 09.11.10 |