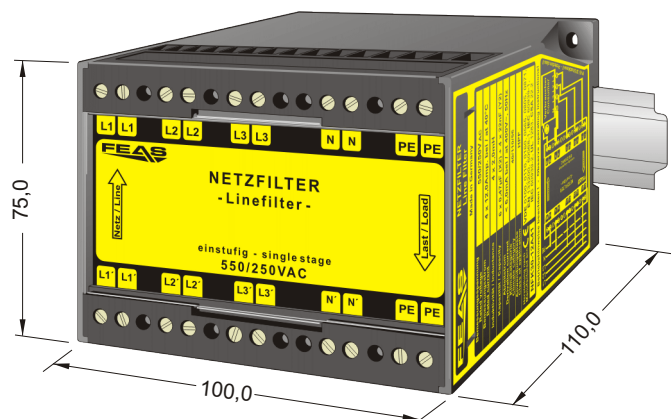


# Radio interference suppression filters

## 4-Lines 1-Stage

### Type NFK30-12A41



#### Technical Data

##### Electrical data

|                     |  |
|---------------------|--|
| Rated voltage $U_R$ | see table below                              |
| Frequency           | see table below                              |
| Rated current $I_R$ | see table below                              |
| Overload current    | $1,5 \times I_R$ $t < 2$ Min. $3 \times / h$ |
| Inductance $L_R$    | see table below                              |
| Capacity $C_R$      | see table below                              |
| Derivation current  | $< 6,0$ mA at 400V~, 50Hz                    |
| Discharge resistor  | $3 \times$ ca. 1M                            |

##### Operating data

|                             |   |
|-----------------------------|---|
| Duty circle                 | 100%  |
| Operating temperature range | $-40^\circ\text{C}$ to $+85^\circ\text{C}$                |
| Derating                    | -   |
| Storage temperature range   | $-50^\circ\text{C}$ ... $+105^\circ\text{C}$              |
| Cooling                     | self cooling<br>recommended respective distance 15mm each |

##### Safety devices

|                     |               |
|---------------------|---------------|
| Fuse for input      | -             |
| Fuse for output     | -             |
| Overload protection | -             |
| MTBF                | $> 380.000$ h |

##### Safety data

|                            |   |
|----------------------------|---|
| Test voltage               | 2,5kV- (Conductor - PE)   |
| Protection class           | Class 2 (EN 60950)  |
| Extra low safety potential | -   |
| Ambient humidity           | 95% relative humidity, yearly average dewing<br>allowed for use in tropical ambient |
| Protective class enclosure | IP 65   |
| Protective class terminals | IP 20 (VGB4)  |
| Vibration proof            | $> 30$ g at 33Hz in X,Y and Z,<br>acc. to IEC 60068-2-27                            |

##### Applied construction regulations

|                  |   |
|------------------|---|
| according to VDE | VDE 0100, 0110, 0113, 0551, 0160/W2, 0806   |
| IEC              | IEC 60939-1, IEC60939-2, IEC60068-2-3<br>IEC 60068-2-11-52, IEC 60529, IEC 380  |
| EN               | EN133200, EN60068-1<br>EN61000-6-1-2-3-4, EN50178<br>EN55011, EN50204, EN61558-2-17<br>EN60204, EN60529, EN61000-4-2-3-4-5-6-8-11<br>EN60068-1, EN60068-2-1-2-3-6-27-30<br>EN45501, EN50021 |
| CSA / UL         | CSA-C 22.2 / UL1283, UL94V1   |

##### Mechanics

|          |   |
|----------|---|
| Mounting | On rails acc. to DIN 46277 or<br>wallmounting with screws |
|----------|---|

- High insertion loss over a broad frequency range
- Small enclosure design
- Self-extinguishing polycarbonat housing in acc. to UL94V1
- Suitable for the tropics - Epoxy resin casted
- Safety acc. to VDE, EN, UL, CSA

|                               |   |
|-------------------------------|---|
| <b>Type</b>                   | NFK30-12A41                                 |
| <b>Rated voltage</b>          | 550/250VAC                                  |
| <b>Frequency</b>              | 50 - 60Hz                                   |
| <b>Rated current</b>          | 4 x 12,0Amp.<br>at $40^\circ\text{C}$       |
| <b>Inductance</b>             | L1 4x2,0mH                                  |
| <b>Capacity</b>               | 6 x 0,47 $\mu\text{F}$ (X2)<br>4 x 22nF(Y2) |
| <b>Dimensions (W x H x D)</b> | 100x75x110                                  |
| <b>Weight</b>                 | approx. 1,15kg                              |
| <b>Order-No.</b>              | 51039                                       |

#### Insertion loss at 50

