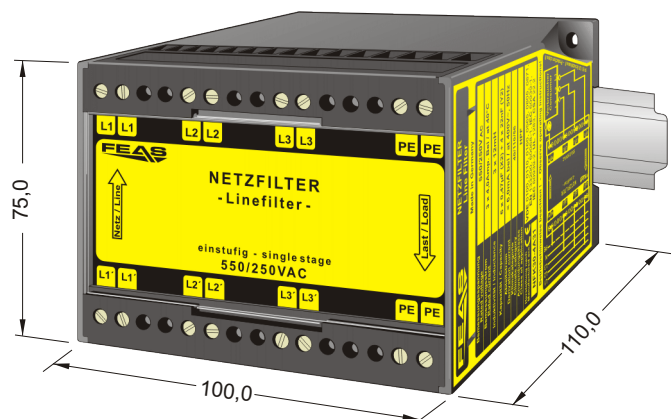


# Radio interference suppression filters

## 3-Lines 1-Stage

### Type NFK30-4A31



**CE** - conform

#### 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 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 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, 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 IEC 60068-2-11-52, IEC 60529, IEC 380
EN	EN133200, EN60068-1 EN61000-6-1-2-3-4, EN50178 EN55011, EN50204, EN61558-2-17 EN60204, EN60529, EN61000-4-2-3-4-5-6-8-11 EN60068-1, EN60068-2-1-2-3-6-27-30 EN45501, EN50021
CSA / UL	CSA-C 22.2 / UL1283, UL94V1

##### Mechanics

Mounting	On rails acc. to DIN 46277 or wallmounting with screws
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- 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>	NFK30-4A31
<b>Rated voltage</b>	550/250VAC
<b>Frequency</b>	50 - 60Hz
<b>Rated current</b>	$3 \times 4,0$ Amp. at $40^\circ\text{C}$
<b>Inductance</b>	$L1$ $3 \times 12$ mH
<b>Capacity</b>	$6 \times 0,47$ $\mu\text{F}$ (X2) $4 \times 22$ nF (Y2)
<b>Dimensions (W x H x D)</b>	100x75x110
<b>Weight</b>	approx. 1,15kg
<b>Order-No.</b>	51031

#### Insertion loss at 50

