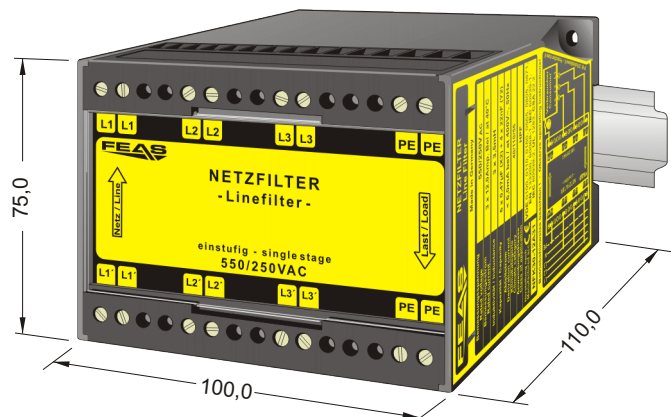


Radio interference suppression filters

3-Lines 1-Stage

Type NFK30-12A31



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	$1,5 \times I_R$ $t < 2 \text{ Min.}$ $3 \times / \text{h}$
Inductance L_R	see table below
Capacity C_R	see table below
Derivation current	$< 6,0 \text{ mA}$ at 400 V- , 50 Hz
Discharge resistor	$3 \times \text{ca. } 1 \text{ M}$

Operating data

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

Safety devices

Fuse for input	-
Fuse for output	-
Overload protection	-
MTBF	$> 380.000 \text{ h}$

Safety data

Test voltage	$2,5 \text{ kV-}$ (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	$> 30 \text{ g}$ at 33 Hz 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, IEC 60939-2, IEC 60068-2-3
	IEC 60068-2-11-52, IEC 60529, IEC 380
EN	EN 133200, EN 60068-1
	EN 61000-6-1-2-3-4, EN 50178
	EN 55011, EN 50204, EN 61558-2-17
	EN 60204, EN 60529, EN 61000-4-2-3-4-5-6-8-11
	EN 60068-1, EN 60068-2-1-2-3-6-27-30
	EN 45501, EN 50021
CSA / UL	CSA-C 22.2 / UL 1283, UL 94V1

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

Type	NFK30-12A31
Rated voltage	550/250VAC
Frequency	50 - 60Hz
Rated current	$3 \times 12,0 \text{ Amp.}$ at 40°C
Inductance	$L1 \ 3 \times 3,5 \text{ mH}$
Capacity	$6 \times 0,47 \mu \text{F (X2)}$ $4 \times 22 \text{ nF (Y2)}$
Dimensions (W x H x D)	100x75x110
Weight	approx. 1,15kg
Order-No.	51033

Insertion loss at 50

