## **EMC-Power Line Filters**



FP Series, industrial-mains-filters to Protection Class I, in plastic case, conform to EN 133200, UL 1283 and IEC 60950

Nominal current: 0.5 - 25 A @ ₺a 40°C Rated voltage U<sub>R</sub> (U<sub>max</sub>): 250 VAC 50/60 Hz \*

Attenuation: Standard

50% saturation typ.: 2 to 3 x I<sub>N</sub> @ 20°C Inrush current: 1.5 x I<sub>N</sub> 1 min. per hour

MTBF @ 40°C / U<sub>R</sub> (U<sub>max</sub>): > 200'000 h acc. to MIL-HB-217 F

Plastic case: UL 94 V-0
Potting resin: UL 94 V-0

\* for FPD4... see "filter for 3-phase systems"

Approvals obtained or pending:

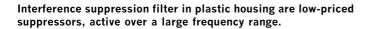


CCA-NTR EN 133200









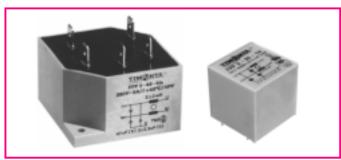
A large program of various filter types with regard to nominal voltage, rated current, number of phases and type of connection is available. They are all in accordance with the international prescriptions of the radio interference filters like e.g. EN 133200.

Thanks to the simple construction, the plastic filters either with solder pins as PCB version or with faston respectively wire-connection as mounting-version, are mainly suitable for later installation in case of interference.

Provided that the right type of filter is selected, a double-faced effect can be achieved, namely from the apparatus outwards as noise suppression filter and in the other direction as power-transient-protective-filter.

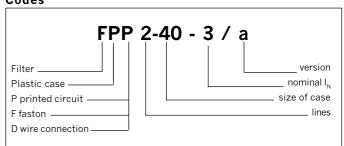
## 2 lines are available:

- square type
- flat type





## Codes



## **Technical Data**

Туре		l <sub>N</sub> (1) @ ϑa 40°C [A]	UR (Umax) [V]	L <sub>N</sub> (2) -30% / +50% [mH]	Leakage curr. (3) @ 250 V/50 Hz [mA]	Co/C2(X2) [μF]	C1(Y2) [nF]	Circuit diagram	Case
SQUARE	FPP2-25-0.6/a	0.6	250	2 x 40	< 0.25	0.015	2.2	S1	13P
	FPP2-25-1/a	1	250	2 x 10	< 0.25	0.015	2.2	S1	13P
	FPP2-25-2/a	2	250	2 x 4	< 0.25	0.015	2.2	S1	13P
	FPP2-30-0.7/a	0.7	250	2 x 40	< 0.25	0.015	2.2	S1	18P
	FPP2-30-1/a	1	250	2 x 20	< 0.25	0.022	2.2	S1	18P
	FPP2-30-2/a	2	250	2 x 6	< 0.25	0.022	2.2	S1	18P
	FPP2-30-3/a	3	250	2 x 3	< 0.25	0.022	2.2	S1	18P
	FPP2-40-1/a	1	250	2 x 30	< 0.25	0.047	2.2	S1	24P
	FPP2-40-3/a	3	250	2 x 4	< 0.25	0.047	2.2	S1	24P
	FPF2-48-1.5/a	1.5	250	2 x 20	< 0.25	0.047	2.2	S1	29P
	FPF2-48-6/a	6	250	2 x 3	< 0.25	0.047	2.2	S1	29P
	FPD4-120-25/a	25	250/440	4 x 2.5	_	0.47	_	S4	34P
LAT	FPP2-45-0.5/b	0.5	250	2 x 40	< 0.25	0.1	2.2	S2	27P
	FPP2-45-1.0/b	1.0	250	2 x 10	< 0.25	0.1	2.2	S2	27P
	FPP2-45-1.6/b	1.6	250	2 x 6	< 0.25	0.1	2.2	S2	27P
	FPP2-45-2.5/b	2.5	250	2 x 2	< 0.25	0.1	2.2	S2	27P
<b>L</b>	FPP2-45-4.0/b	4.0	250	2 x 1	< 0.25	0.1	2.2	S2	27P
	FPP2-45-6.5/b	6.5	250	2 x 1	< 0.25	0.1	2.2	S2	27P
	FPP2-45-0.8/a	0.8	250	2 x 20	< 0.25	0.068/0.015	2.2	S3	27-1P

- (1) Current derating over  $40^{\circ}\text{C}$ :  $I = I_N \times \frac{(\$5.9a)/45}{}$
- $(2) \, \text{Nominal inductance measured according to EN 138100, see introduction of this catalog, paragraph 3.4}$
- (3) Measured according to IEC 60950 5.2.3 Annex D, see introduction of this catalog, paragraph 3.5