

Type code:

- **VNF: Four-wire line filter (Three-phase + neutral conductor) / single-stage**

Generally:

- Single-stage filters cause:
- Attenuation of the mainsborne radio interference voltage out of the system and of the connected loads. (raising of the noise immunity of the gears or machines connected on load side)
- Degree of protection IP20
- Metallic enclosures with ground connection as preparation for fitting in gears and systems of class of protection I
- Dimensioning for pollution severity P2
- maximum ambient temperature 40°C (climatic category 40/085/00 acc. to IEC68-1) / Insulation class B
- Frequency 50 to 60 Hz (see leakage currents in table)
- Voltage drop < 1V (concerning 50 Hz)
- Inductance tolerance +50% / -30%
- Vacuum-encapsulated
- Dimensioned for continuous operation (ED = 100 %)
- Connections on terminals - shockproof according to VBG4

Standards and basics:

- VDE0565-3 (IEC 60940)
- „Guideline for the use of capacitors, resistances, reactors and complete filter units for the suppressing of electromagnetic interference“
- IEC68-1 (EN 60086-1) "Environmental tests"
- General technical conditions and information

- Nominal voltage:

400 V



**Type designation, nominal currents, leakage currents, dimensions and weights for the types VNF**

Type designation	Nominal current in A	max. leakage current at 250V / 50Hz in mA	max. leakage current at 250V / 60Hz in mA	a in mm	b in mm	c in mm	Cu-weight in kg	total weight in kg
VNF3	3	9,5	11,4	180	50	45	0,05	0,65
VNF4	4	9,5	11,4	180	50	45	0,05	0,65
VNF6,3	6,3	9,5	11,4	180	50	45	0,05	0,65
VNF8	8	9,5	11,4	180	50	45	0,075	0,7
VNF10	10	9,5	11,4	180	50	45	0,09	0,7

VNF16	16	14	16,8	200	120	65	0,14	2,3
VNF20	20	14	16,8	200	120	65	0,15	2,3
VNF25	25	95	114	200	120	65	0,25	2,3
VNF30	30	95	114	200	120	65	0,30	2,5
VNF36	36	95	114	200	120	65	0,30	2,5
VNF50	50	110	132	200	120	65	0,45	4,7
VNF63	63	115	138	350	170	90	0,6	8,2
VNF80	80	115	138	350	170	90	0,75	9,0
VNF100	100	115	138	350	170	90	1,7	9,5
VNF125	125	117	140	350	170	90	1,7	9,5
VNF160	160	117	140	350	170	132	3,3	11,5
VNF180	180	117	140	350	170	132	3,3	11,5
VNF200	200	117	140	350	170	132	3,3	11,5
VNF250	250	210	250	530	260	140	6,7	20,0
VNF300	300	210	250	530	260	140	6,7	20,0
VNF350	350	210	250	530	260	140	9,5	24,0
VNF400	400	210	250	530	260	210	9,5	24,0
VNF450	450	210	250	530	260	210	13,5	28,0
VNF500	500	210	250	530	260	210	13,5	28,0

Options (on inquiry)

- Variants of connection (litz wires, clamp-type terminals, terminal studs or copper flat-bars)
- Filters for other operating conditions
- Filters in plastic packages