

Type code:

- DNF: Three-phase line filter / 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 enclosure with ground connection as preparation for fitting of 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 DNF

| 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 |
|------------------|----------------------|---|---|---------|---------|---------|-----------------|--------------------|
| DNF3 | 3 | 9,5 | 11,4 | 180 | 50 | 45 | 0,04 | 0,6 |
| DNF4 | 4 | 9,5 | 11,4 | 180 | 50 | 45 | 0,04 | 0,6 |
| DNF6,3 | 6,3 | 9,5 | 11,4 | 180 | 50 | 45 | 0,04 | 0,6 |
| DNF8 | 8 | 9,5 | 11,4 | 180 | 50 | 45 | 0,06 | 0,7 |
| DNF10 | 10 | 9,5 | 11,4 | 180 | 50 | 45 | 0,065 | 0,7 |
| DNF16 | 16 | 14 | 16,8 | 200 | 120 | 65 | 0,11 | 2,3 |
| DNF20 | 20 | 14 | 16,8 | 200 | 120 | 65 | 0,11 | 2,3 |
| DNF25 | 25 | 95 | 114 | 200 | 120 | 65 | 0,17 | 2,3 |
| DNF30 | 30 | 95 | 114 | 200 | 120 | 65 | 0,21 | 2,4 |
| DNF36 | 36 | 95 | 114 | 200 | 120 | 65 | 0,25 | 2,4 |
| DNF50 | 50 | 110 | 132 | 200 | 120 | 65 | 0,35 | 2,5 |
| DNF63 | 63 | 115 | 138 | 350 | 170 | 90 | 0,45 | 3,0 |
| DNF80 | 80 | 115 | 138 | 350 | 170 | 90 | 0,55 | 5,5 |

| | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|------|------|
| DNF100 | 100 | 115 | 138 | 350 | 170 | 90 | 1,3 | 9,0 |
| DNF125 | 125 | 117 | 140 | 350 | 170 | 90 | 1,3 | 9,0 |
| DNF160 | 160 | 117 | 140 | 350 | 170 | 90 | 2,5 | 10,5 |
| DNF180 | 180 | 117 | 140 | 350 | 170 | 90 | 2,5 | 10,5 |
| DNF200 | 200 | 117 | 140 | 350 | 170 | 90 | 2,5 | 10,5 |
| DNF250 | 250 | 210 | 250 | 530 | 260 | 210 | 5,0 | 18 |
| DNF300 | 300 | 210 | 250 | 530 | 260 | 210 | 5,6 | 18 |
| DNF350 | 350 | 210 | 250 | 530 | 260 | 210 | 7,1 | 22 |
| DNF400 | 400 | 210 | 250 | 530 | 260 | 210 | 7,1 | 22 |
| DNF450 | 450 | 210 | 250 | 530 | 260 | 210 | 10,0 | 25 |
| DNF500 | 500 | 210 | 250 | 530 | 260 | 210 | 10,0 | 25 |

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