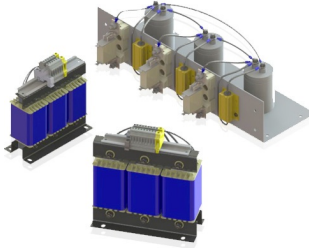


CNW 8981- 50 Hz

REOWAVE^{passive} - harmonic filter 50 Hz/400V (IP00)



Unique Selling Point

- Reduction of the THDI value
- Increasing network stability
- Reduction of input current up to 30%
- Suitable for installation in control cabinets
- Easy integration into existing systems
- Increased reliability of electrical installations

Description

Reduce Harmonics - save up to 30% energy costs.

The REOWAVE^{passive} filters harmonics caused by the B6 circuit (thyristor, diode bridge, etc.) and motor drives. The supply network is relieved by compensating the harmonics reactive power. This enables cost savings in material selection and energy consumption. Starting currents and current peaks are greatly attenuated.

This increases the service life and reliability of electrical systems. Due to the compact and ready-build an easy installation is possible.

The REOWAVE^{passive} helps to comply with international power quality standards IEEE 519 or EN 61000-3.

- Nominal voltage: 400V
- Frequency: 50Hz
- In accordance with: EN 60289 / EN 61558
- Test voltage: L-L 2,500 V, DC 1min; L-PE 2,500 V, DC 1min
- Insulation class: T40 / F
- Climate class: IEC 60068-1 DIN
- Protection: IP 20 (also available as IP00 version)
- Nominal voltage: 400V / 50 Hz
- Standards: IEEE 519, EN 61000-3-12, EN 61000-3-2, IEC 61000-3-4

Technical Data

- Nominal Voltage : 400 V
- Rated current : 6 - 1200 A
- Frequency : 50 Hz

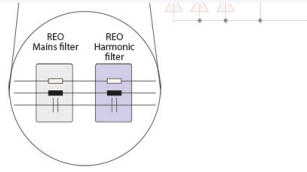
Typical applications

- Drive technology for motor drives, e.g.:
- Engineering
- Elevators / escalators
- Pipe
- Conveyor Technology
- Ventilation and air conditioning
- Robotics
- Automation Technology
- Power Supplies
- Failsafe processes
- Applications with a 6- pulse rectifier

Circuit example

CNW 8981- 50 Hz

REOWAVEpassive - harmonic filter 50 Hz/400V (IP00)



Technical data / Dimensions

| Type CNW 8981/ | Rated current [A] | Losses [W] | Choke 1 [mm] | | | | | Choke 2 [mm] | | | | | Capacitors [mm] | | | | | | | [kg] |
|----------------|-------------------|------------|--------------|--------|-----|-----|-----|--------------|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|-----|-------|
| | | | L | B / B2 | H | N1 | N2 | L | B | H | N1 | N2 | L | B | H | N1 | N2 | N3 | N4 | |
| 6 | 6 | 95 | 190 | 82 | 210 | 170 | 58 | 125 | 85 | 125 | 100 | 55 | 500 | 200 | 100 | 450 | 470 | 100 | - | 12.5 |
| 9 | 9 | 120 | 190 | 92 | 210 | 170 | 68 | 155 | 77 | 155 | 130 | 57 | 500 | 200 | 100 | 450 | 470 | 100 | - | 16.2 |
| 12 | 12 | 120 | 190 | 92 | 210 | 170 | 68 | 155 | 92 | 185 | 130 | 72 | 500 | 260 | 230 | 450 | 470 | 100 | - | 17.5 |
| 16 | 16 | 160 | 230 | 90 | 258 | 176 | 71 | 190 | 82 | 210 | 170 | 58 | 500 | 200 | 100 | 450 | 470 | 100 | - | 25 |
| 22 | 22 | 230 | 230 | 114 | 260 | 176 | 95 | 190 | 82 | 210 | 170 | 58 | 500 | 350 | 100 | 450 | 470 | 100 | 125 | 31.4 |
| 32 | 32 | 241 | 240 | 117 | 270 | 185 | 95 | 210 | 97 | 238 | 175 | 77 | 500 | 200 | 230 | 450 | 470 | 100 | 125 | 42.9 |
| 36 | 36 | 300 | 240 | 132 | 270 | 185 | 109 | 210 | 97 | 238 | 175 | 77 | 500 | 200 | 230 | 450 | 470 | 100 | 125 | 42.5 |
| 45 | 45 | 313 | 300 | 120 | 335 | 224 | 94 | 210 | 107 | 238 | 175 | 87 | 500 | 200 | 100 | 450 | 470 | 100 | - | 57.1 |
| 55 | 55 | 420 | 300 | 152 | 330 | 224 | 119 | 210 | 117 | 238 | 175 | 97 | 500 | 350 | 200 | 450 | 470 | 100 | 125 | 59.8 |
| 70 | 70 | 487 | 300 | 165 | 330 | 224 | 132 | 230 | 114 | 260 | 176 | 95 | 500 | 260 | 230 | 450 | 470 | 100 | - | 67.3 |
| 90 | 90 | 580 | 360 | 193 | 330 | 264 | 167 | 230 | 114 | 263 | 176 | 95 | 500 | 260 | 100 | 450 | 470 | 100 | - | 81.8 |
| 110 | 110 | 710 | 420 | 189 | 367 | 316 | 159 | 240 | 122 | 280 | 185 | 100 | 500 | 350 | 230 | 450 | 470 | 100 | 125 | 110.5 |
| 145 | 145 | 860 | 420 | 204 | 369 | 316 | 174 | 265 | 133 | 270 | 200 | 103 | 500 | 350 | 230 | 450 | 470 | 100 | 125 | 130 |
| 180 | 180 | 1,000 | 420 | 234 | 368 | 316 | 204 | 300 | 135 | 315 | 224 | 107 | 500 | 260 | 200 | 450 | 470 | 100 | - | 160 |
| 200 | 200 | 1,100 | 420 | 234 | 369 | 316 | 204 | 300 | 150 | 280 | 224 | 120 | 500 | 260 | 400 | 450 | 470 | 100 | - | 167 |
| 230 | 230 | 950 | 480 | 220 | 417 | 356 | 184 | 300 | 170 | 280 | 224 | 135 | 500 | 350 | 100 | 450 | 470 | 100 | 125 | 180 |
| 270 | 270 | 1,140 | 480 | 250 | 416 | 356 | 214 | 360 | 223 | 310 | 264 | 142 | 500 | 200 | 300 | 450 | 470 | 100 | - | 226 |
| 330 | 330 | 1,570 | 480 | 250 | 465 | 356 | 214 | 360 | 223 | 310 | 264 | 142 | 500 | 370 | 160 | 450 | 470 | 100 | 125 | 249 |
| 370 | 370 | 1,680 | 480 | 250 | 467 | 356 | 214 | 420 | 206 | 364 | 316 | 143 | 500 | 500 | 160 | 450 | 470 | 100 | 275 | 259 |
| 400 | 400 | 1,410 | 480 | 250 | 464 | 356 | 214 | 420 | 204 | 363 | 316 | 143 | 500 | 370 | 400 | 450 | 470 | 100 | 125 | 266 |
| 450 | 450 | 1,500 | 480 | 250 | 510 | 356 | 214 | 420 | 220 | 363 | 316 | 158 | 500 | 550 | 160 | 450 | 470 | 100 | 275 | 296 |
| 550 | 550 | 1,850 | 480 | 250 | 506 | 356 | 214 | 420 | 235 | 364 | 316 | 174 | 500 | 550 | 160 | 450 | 470 | 100 | 275 | 310 |
| 650 | 650 | 2,090 | 480 | 250 | 589 | 356 | 214 | 420 | 268 | 363 | 316 | 204 | 500 | 550 | 510 | 450 | 470 | 100 | 275 | 369 |

Because of the design of the following devices, a special construction is necessary - please contact us!

| Type CNW 8981/ | Rated current [A] | Losses [W] | Choke 1 [mm] | | | | | Choke 2 [mm] | | | | | Capacitors [mm] | | | | | | | [kg] |
|----------------|-------------------|------------|--------------|--------|-----|-----|-----|--------------|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|-----|------|
| | | | L | B / B2 | H | N1 | N2 | L | B | H | N1 | N2 | L | B | H | N1 | N2 | N3 | N4 | |
| 800 | 800 | 2,510 | 540 | 234 | 603 | 470 | 194 | 480 | 241 | 414 | 356 | 185 | 500 | 650 | 510 | 450 | 470 | 100 | 125 | 431 |
| 1,000 | 1,000 | 2,630 | 540 | 234 | 617 | 470 | 194 | 540 | 290 | 485 | 450 | 184 | 500 | 650 | 510 | 450 | 470 | 100 | 125 | 556 |
| 1,200 | 1,200 | 3,030 | 540 | 234 | 732 | 470 | 194 | 540 | 308 | 528 | 450 | 204 | 500 | 650 | 510 | 450 | 470 | 100 | 275 | 654 |

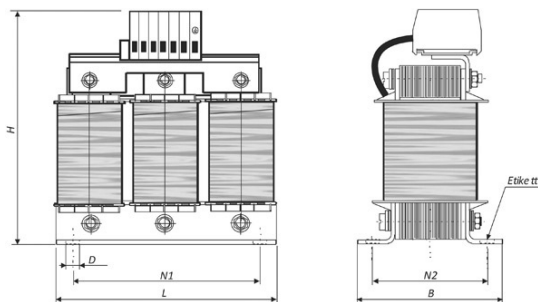
last modified: 03/27/2018. All data is provided to the best of our knowledge and awareness and is subject to error and amendment.

CNW 8981- 50 Hz

REOWAVEpassive - harmonic filter 50 Hz/400V (IP00)

Dimension drawings

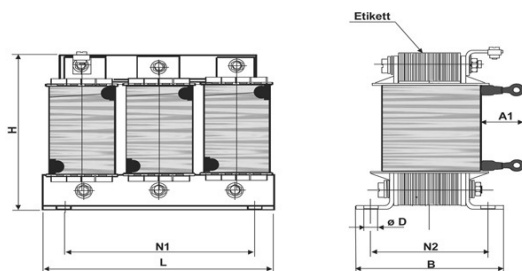
Picture 1 - Choke 1



Choke 1 is used in the following types:

- CNW8981 / 6 - 90

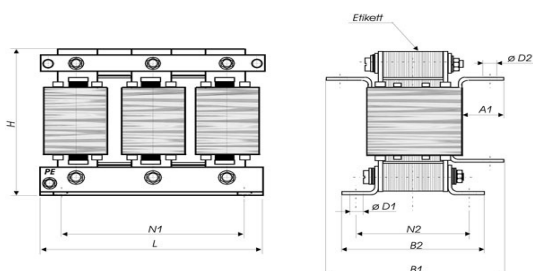
Picture 2 - Choke 2



Choke 2 is used in the following types:

- CNW8981 / 22 - 36

Picture 3 - Choke 3



Choke 3 is used in the following types:

- CNW8981 / 55 - 1200

Capacitors

