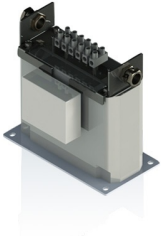


# CNW M 833

Fully encapsulated three-phase dv/dt Filter (IP20)



## Unique Selling Point

- Optimal mechanical protection of the choke
- Protection for electrical consumers
- Limit the voltage rise to  $< 500\text{V}/\mu\text{s}$
- Extended service life of electrical consumers
- Low leakage currents on the motor
- Reduced losses
- Very low noise
- Easy construction
- Production possible according to UL insulation system E251513

## Description

Reduce voltage rise to  $< 500\text{V}/\mu\text{s}$  - electrical consumers and insulation will be protected with low costs.

A simple and inexpensive method for reducing the rate of voltage rise is to use a du / dt filter. The filter attenuates the voltage rise to acceptable values and prevents overvoltages on long supply lines. Losses and heating are minimized and reduces the leakage current. By limiting the rate of voltage rise, the motor insulation is protected and thus increases the service life.

Also, the electromagnetic interference can be reduced in the radiation range of 1 MHz to 30 MHz.

Voltage rise is reduced to  $< 500\text{V}/\mu\text{s}$ .

- Rated voltage:  $U \leq 3 \times 400\text{ V}$
- Reduce the voltage rise  $dv / dt$  to  $< 500\text{V}/\mu\text{s}$
- Max. cable length to the motor: 200 m
- Field frequency: 10 - 60 Hz
- Short circuit voltage at 400 V: 0.8%
- Drive switching frequency:  $4\text{ kHz} > f_t < 8\text{ kHz}$
- According to: EN 60289 / EN 61558
- Test voltage: L-L 2500 V, AC/50Hz 60s; L-PE 2500 V, AC/50Hz 60s
- Insulation class: T40/F
- Protection rating: IP20
- Climatic category: DIN IEC 60068-1
- Overload:  $1,5 \times I_{Nenn}$  1 min / h
- Ambient temperature:  $40\text{ }^\circ\text{C}$
- Design: standing on foot angle

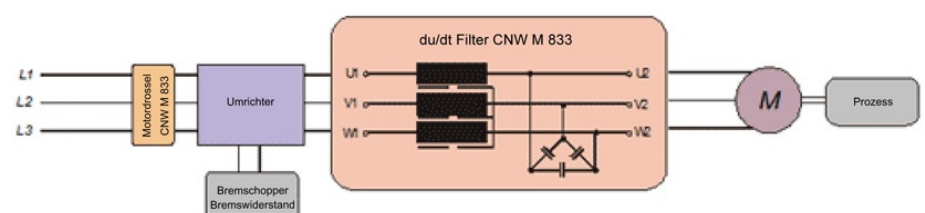
## Typical applications

- Drive systems for motor drives:
  - Mechanical engineering
  - Elevators / escalators
  - Pipes
  - Conveyor technology
  - Ventilation and air conditioning
  - Robotics
  - Automation technology
- Power supplies
- Wind turbines

## Technical Data

- Nominal Voltage : 400 V
- Rated current : 8 - 175 A
- Inductance : 0,09 - 2 mH

## Circuit example



Your contact:

+44 1588 673 411 • main@reo.co.uk



# CNW M 833

*Fully encapsulated three-phase dv/dt Filter (IP20)*

## Technical data

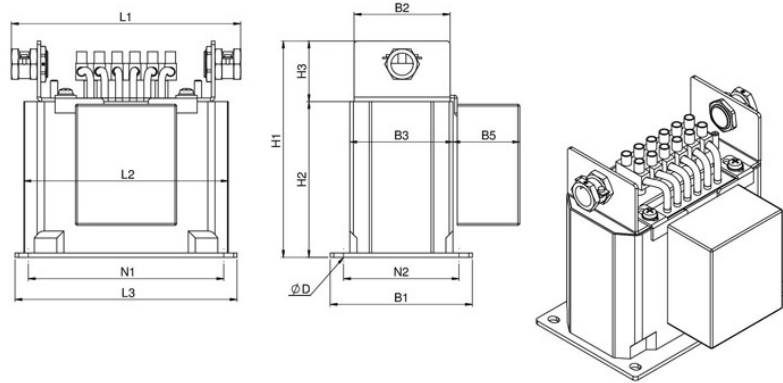
Type	Rated voltage [V]	Rated current [A]	Inductance [mH]	Capacity [pF]	Weight [kg]	Clip [mm <sup>2</sup> ]	Cable connection
CNW M 833 / 8	3 x 400 V ≤ 60 Hz	8	2	330	3	2,5	PG9
CNW M 833 / 16		16	0,9	330	4	6	PG13,5
CNW M 833 / 36		36	0,42	330	8	16	PG21
CNW M 833 / 60		60	0,27	2200	24	35	PG29
CNW M 833 / 90		90	0,17	4700	27	35	PG29
CNW M 833 / 175		175	0,09	10000	37	95	PG42

# CNW M 833

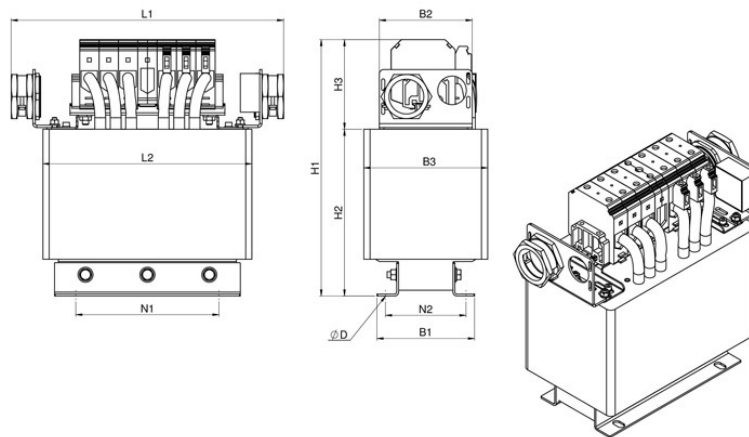
Fully encapsulated three-phase dv/dt Filter (IP20)

Dimension drawings

Design 1



Design 2



Dimensions

Type	L1 [mm]	L2 [mm]	L3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	B5 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	N1 [mm]	N2 [mm]	D [mm]	Design
CNW M 833 / 8	160	140	150	80	50	55	35	150	110	37	135	65	5,5x7	1
CNW M 833 / 16	160	140	170	85	60	65	35	150	110	35	155	70	5,5x7	1
CNW M 833 / 36	185	175	175	115	70	80	30	185	140	45	155	95	5,5x15	1
CNW M 833 / 60	295	249	255	180	80	120	35	300	218	82	185	150	9x13	1
CNW M 833 / 90	295	250	255	180	90	120	40	300	218	82	185	150	9x13	1
CNW M 833 / 180	355	270	-	127	120	160	-	335	217	116	185	105	10x18	2