

# CNW M 933

Three-phase sinusoidal filter

## Advantages

- Use in harsh environments
- Optimum mechanical protection of the choke
- Upgrade to IP 66 possible
- Various connection options
- Customer-specific mounting plate possible
- Lower surface temperature
- Output voltage is sinusoidal
- Greatly reduced DV/DT
- High damping of interference emissions from the lines
- Motor cables up to 1000 m possible
- Extended service life for electrical loads
- Production according to UL insulation system E251513 possible

## Description

- Nominal voltage:  $U \leq 3 \times 500 \text{ V}$
- Max. voltage ripple: 5 %
- Rotating field frequency: 0 - 60 Hz
- Clock frequency of the inverter: up to 150 A > 4 kHz, from 150 A > 1.5 kHz
- Short-circuit voltage UK: 8 % (at 400 V)
- Voltage drop: 18.4 V/strand (at  $I_{\text{Rated}}$  and 50 Hz)
- Max. length of supply cable to motor: 600 m (unshielded) 1000 m (shielded)
- According to: EN 60289 / EN 61558
- Test voltage: L-L 2500 V, AC/50 Hz 60s; L-PE 2500 V, AC/50 Hz 60s
- Insulation class: T40/F
- Protection class: IP 00
- Climate category: DIN IEC 60068-1
- Overload:  $1.5 \times I_{\text{Rated}}$  1 min/h
- Ambient temperature 40 °C)
- Design: Constructed on mounting plate



# Technical details

CNW M 933							
Type	Nominal voltage [V]	Nominal current [A]	Inductance [mH]	Capacitance [µF]	Copper weight [kg]	Weight [kg]	Strand [mm <sup>2</sup> ]
CNW M 933 / 2	up to 3 x 500	2	29,3	0,22	0,9	2,9	1,5
CNW M 933 / 4		4	14,6	0,33	0,9	2,9	1,5
CNW M 933 / 6		6	9,7	0,73	1,0	3,6	1,5
CNW M 933 / 8		8	5,3	0,73	1,0	3,6	1,5
CNW M 933 / 10		10	5,0	0,73	1,8	5,8	1,5
CNW M 933 / 12		12	4,9	1,1	2,3	7,5	1,5
CNW M 933 / 16		16	3,6	1,1	3,2	9,0	2,5
CNW M 933 / 20		20	2,9	1,5	3,6	13,0	4,0
CNW M 933 / 24		24	2,4	2,2	3,6	13,0	4,0
CNW M 933 / 30		30	2,0	2,2	10,0	28,0	6,0
CNW M 933 / 37		37	1,9	3,3	11,0	29,0	6,0



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

## Dimensions in mm

CNW M 933													
Type	L1 (mm)	B1 (mm)	H1 (mm)	Bolting	Clamp	Protection class	L2 (mm)	L3 (mm)	B2 (mm)	H2 (mm)	N1 (mm)	N2 (mm)	ØD (mm)
CNW M 933/2	185	80	57	M20	4mm <sup>2</sup>	IP66	140	125	77	113	100	60	5,5 x 7,0
CNW M 933/4	185	80	57	M20	4mm <sup>2</sup>	IP66	140	125	77	113	100	60	5,5 x 7,0
CNW M 933/6	185	80	57	M20	4mm <sup>2</sup>	IP66	140	125	87	113	100	70	5,5 x 7,0
CNW M 933/8	185	80	57	M20	4mm <sup>2</sup>	IP66	140	125	87	113	100	70	5,5 x 7,0
CNW M 933/10	200	80	80	M20	4mm <sup>2</sup>	IP64	175	155	99	137	130	79	5,5 x 12,0
CNW M 933/12	200	80	80	M20	4mm <sup>2</sup>	IP64	175	155	114	137	130	94	5,5 x 12,0
CNW M 933/16	200	120	100	M20	6mm <sup>2</sup>	IP64	195	200	125	165	165	100	9,0 x 13,0
CNW M 933/20	200	120	100	M25	6mm <sup>2</sup>	IP64	195	200	145	165	165	120	9,0 x 13,0
CNW M 933/24	200	120	100	M25	6mm <sup>2</sup>	IP64	195	200	145	165	165	120	9,0 x 13,0
CNW M 933/30	210	120	110	M32	16mm <sup>2</sup>	IP64	250	255	180	220	185	150	9,0 x 13,0
CNW M 933/37	210	120	110	M32	16mm <sup>2</sup>	IP64	250	255	180	220	185	150	9,0 x 13,0

