

SINUS FILTER

Sine filters are used to filter the high frequency component of the voltage waveform generated by a variable speed drive. They are particularly useful in applications where low current cables are installed near power cables. By filtering the high-frequency components, they prevent electromagnetic interference from causing undesirable signals in the system. In addition, a sinusoidal shaped voltage across the terminals will increase the life of the motors.

In addition to limiting the rate of voltage rise at the motor terminals in accordance with DIN VDE 0530 or IEC 60 034-17, this allows longer motor cables to be used.

The motor is much more silent. The service life of the motor is increased due to the reduced dielectric stress of the insulation system.

Technical data

- Rated operating voltage: up to 1000 V
- Switching frequency: $4\text{kHz} < f_s < 12\text{kHz}$. Other switching frequencies available on request
- Thermal protection : 132°C NC sensor
- Operating mode: continuous
- Highly permeable iron core
- High quality copper or aluminum windings
- Low losses and high efficiency
- Vacuum impregnated varnish to ensure quiet operation and immune to moisture
- CE mark and compatibility with IEC 60076-6, EN 61558-2-20
- Manufactured under ISO 9001 quality management system



Technical specifications

PRODUCT CODE	Motor power (kW)	Inductance (mH)	Capacity (uF)	Losses (W)	Weight (kg)
CAP.SF 400V/4kW	4	12.7	2	85	4.54
CAP.SF 400V/5kW	5	10.3	2	109	5.16
CAP.SF 400V/5.5kW	5.5	8.4	3	114	5.42
CAP.SF 400V/7.5kW	7.5	6.33	3	121	8.18
CAP.SF 400V/10kW	10	5.1	5	168	10.9
CAP.SF 400V/11kW	11	4.2	5	200	11.34
CAP.SF 400V/15kW	15	3.37	8	180	14.58
CAP.SF400V/18.5kW	18.5	2.75	8	210	17.45
CAP.SF 400V/22kW	22	2.17	10	265	21.16
CAP.SF 400V/30kW	30	1.7	10	327	23.84
CAP.SF 400V/37kW	37	1.36	18	308	33.95
CAP.SF 400V/45kW	45	1.13	18	350	40.92
CAP.SF 400V/55kW	55	0.89	25	425	43.86
CAP.SF 400V/60kW	60	0.86	25	447	44.23
CAP.SF 400V/75kW	75	0.68	35	530	56.74
CAP.SF 400V/90kW	90	0.56	35	570	69.21
CAP.SF 400V/100kW	100	0.507	50	650	69.62
CAP.SF 400V/110kW	110	0.41	50	720	94.61
CAP.SF 400V/132kW	132	0.34	75	1000	119.9
CAP.SF 400V/160kW	160	0.296	75	1030	120.1
CAP.SF 400V/200kW	200	0.253	100	1070	124.3
CAP.SF 400V/250kW	250	0.206	100	1150	166.74
CAP.SF 400V/300kW	300	0.17	125	1360	257.9
CAP.SF 400V/315kW	315	0.146	125	1340	272.8
CAP.SF 400V/400kW	400	0.127	180	1460	238.9
CAP.SF 400V/450kW	450	0.113	200	1530	331.2
CAP.SF 400V/500kW	500	0.103	200	1640	431.3