

Sine filter
SFB



General Data

Rated voltage 3 x 400 Vac
Rated current 4 - 480 A
For motor rated output 1.5 - 260 kW
For switching frequencies of 4 to 8 kHz
Rated frequency from 0 to 150 Hz
Insulation class H
Maximum ambient temperature 40 °C
Degree of protection IP 00

Advantages

Prevention of overvoltages on the motor
Long cable lengths possible
Reduction in motor noise
Reduction in line-borne and field-borne emitted interference
Reduction in motor losses
Very good corrosion protection and low noise thanks to vacuum impregnation

Applications

Sine filter for the suppression of differential mode interference.

Standards

Output filter with capacitor for frequency inverters complying with
DIN EN 61558-2-20, IEC 61558-2-20, UL 508, CSA 22.2 No. 14-9195

Approvals



UL 508, CSA 22.2 No 14-9195



Sine filter SFB



Typ	SFB 400/4	SFB 400/10	SFB 400/16,5	SFB 400/23,5	SFB 400/32	SFB 400/37
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Voltage range	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac
Voltage drop	7.5 % @ 400 Vac	7 % @ 400 Vac	7.5 % @ 400 Vac	8 % @ 400 Vac	8.7 % @ 400 Vac	8.8 % @ 400 Vac
Rated current	4 A	10 A	16.5 A	23.5 A	32 A	37 A
for motor rated output approx.	1.50 kW	4.00 kW	7.50 kW	11.00 kW	15.00 kW	18.50 kW
Rated frequency	0 - 150 Hz	0 - 150 Hz	0 - 150 Hz	0 - 150 Hz	0 - 150 Hz	0 - 150 Hz
Switching frequency	4 - 8 kHz	4 - 8 kHz	4 - 8 kHz	4 - 8 kHz	4 - 8 kHz	4 - 8 kHz
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	H	H	H	H	H	H
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	3000 Vac, 50 Hz	3000 Vac, 50 Hz	3000 Vac, 50 Hz	3000 Vac, 50 Hz	3000 Vac, 50 Hz	3000 Vac, 50 Hz
Order numbers						
Order Number	SFB 400/4	SFB 400/10	SFB 400/16,5	SFB 400/23,5	SFB 400/32	SFB 400/37

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Sine filter SFB



Typ	SFB 400/48	SFB-N 400/61	SFB-N 400/72	SFB-N 400/90	SFB 400/115	SFB 400/150
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Voltage range	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac
Voltage drop	7.8 % @ 400 Vac	8.3 % @ 400 Vac	7.5 % @ 400 Vac	10 % @ 400 Vac	11 % @ 400 Vac	10.2 % @ 400 Vac
Rated current	48 A	61 A	72 A	90 A	115 A	150 A
for motor rated output approx.	22.00 kW	30.00 kW	37.00 kW	45.00 kW	55.00 kW	75.00 kW
Rated frequency	0 - 150 Hz	0 - 150 Hz	0 - 150 Hz	0 - 150 Hz	0 - 150 Hz	0 - 150 Hz
Switching frequency	4 - 8 kHz	4 - 8 kHz	4 - 8 kHz	4 - 8 kHz	4 - 8 kHz	4 - 8 kHz
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	H	H	H	H	H	H
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Test voltage	3000 Vac, 50 Hz	3000 Vac, 50 Hz	3000 Vac, 50 Hz	3000 Vac, 50 Hz	3000 Vac, 50 Hz	3000 Vac, 50 Hz
Order numbers						
Order Number	SFB 400/48	SFB-N 400/61	SFB-N 400/72	SFB-N 400/90	SFB 400/115	SFB 400/150



Sine filter SFB



	Typ	SFB 400/180	SFB 400/250	SFB 400/440	SFB 400/480
Electrical data	Operating data				
	Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
	Voltage range	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac	0 - 520 Vac
	Voltage drop	7.5 % @ 400 Vac	7.5 % @ 400 Vac	7.5 % @ 400 Vac	7 % @ 400 Vac
	Rated current	180 A	250 A	440 A	480 A
	for motor rated output approx.	90.00 kW	132.00 kW	250.00 kW	260.00 kW
	Rated frequency	0 - 60 Hz	0 - 60 Hz	0 - 60 Hz	0 - 60 Hz
	Switching frequency	4 - 8 kHz	4 - 8 kHz	4 - 8 kHz	4 - 8 kHz
	Approvals				
	Approvals	cURus	-	-	-
Environment					
Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	
Safety and protection					
Type	Open type	Open type	Open type	Open type	
Insulation class	H	H	H	H	
Protection index	IP 00	IP 00	IP 00	IP 00	
Safety class (prepared)	I	I	I	I	
Test voltage	3000 Vac, 50 Hz	3000 Vac, 50 Hz	3000 Vac, 50 Hz	3000 Vac, 50 Hz	
Order numbers					
Order Number	SFB 400/180	SFB 400/250	SFB 400/440	SFB 400/480	

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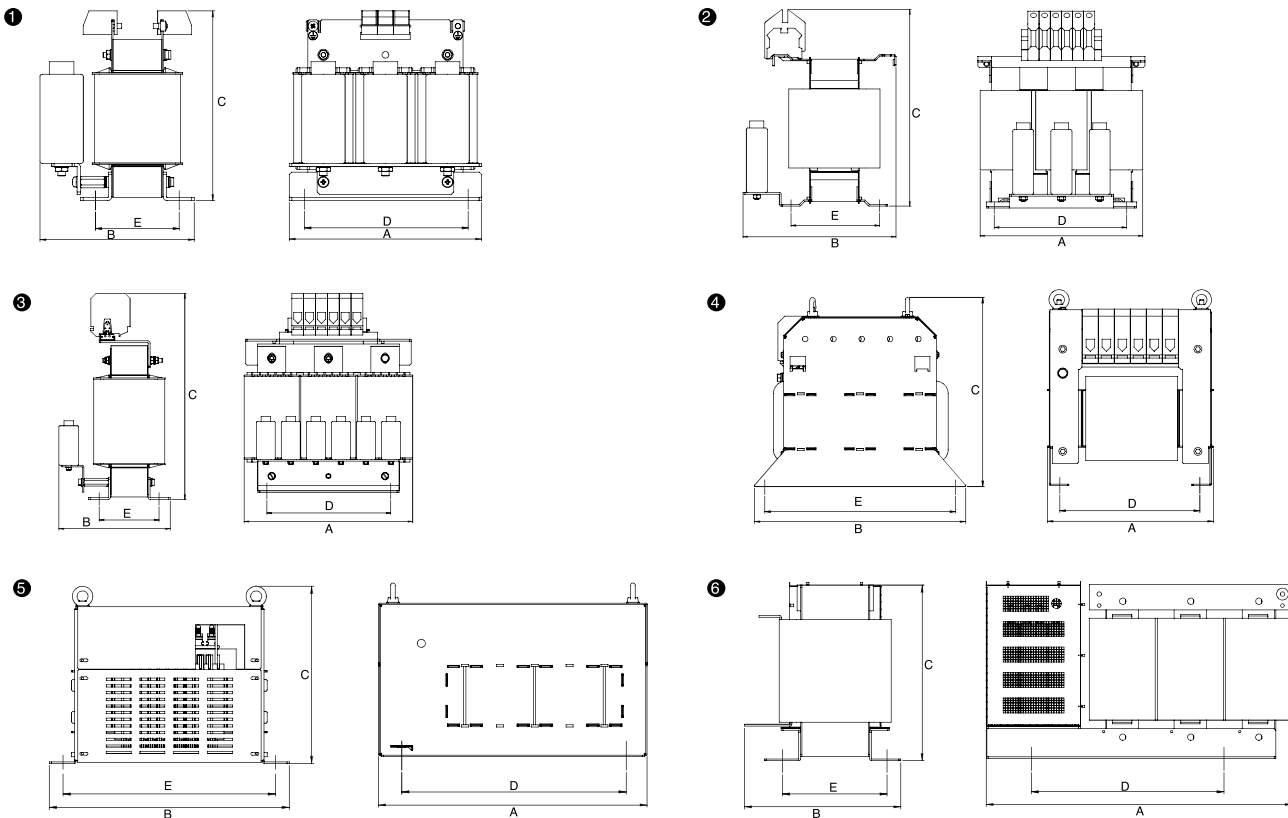


Sine filter
SFB

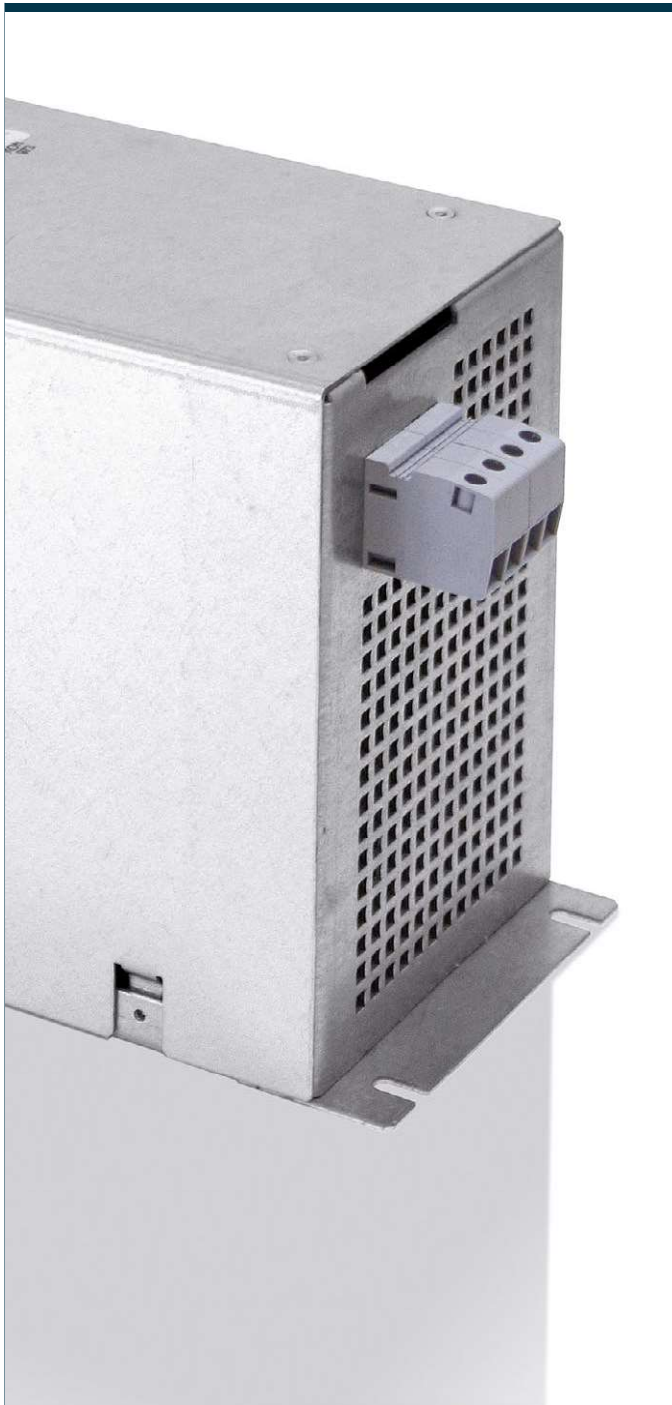


Typ	Terminals phase	Terminals PE	Fixing method	Fixing screws	Mounting position	Weight	Dimension picture (in mm)	Dimension picture (in mm)				
								A	B	C	D	E
SFB 400/4	Screw clamp, 4 mm ²	Bolt, M4	Fixing rail	M5	only for vertical mounting	4.0 kg	1	155	110	160	130	56
SFB 400/10	Screw clamp, 4 mm ²	Bolt, M4	Fixing rail	M5	only for vertical mounting	5.5 kg	1	155	125	160	130	71
SFB 400/16,5	Screw clamp, 10 mm ²	Bolt, M4	Fixing rail	M5	only for vertical mounting	9.5 kg	1	190	160	195	170	67
SFB 400/23,5	Screw clamp, 16 mm ²	Bolt, M6	Fixing rail	M6	only for vertical mounting	14.5 kg	2	240	190	280	190	95
SFB 400/32	Screw clamp, 16 mm ²	Bolt, M6	Fixing rail	M6	only for vertical mounting	19.0 kg	2	240	200	280	190	105
SFB 400/37	Screw clamp, 16 mm ²	Bolt, M6	Fixing rail	M6	only for vertical mounting	21.0 kg	2	240	210	280	190	115
SFB 400/48	Screw clamp, 16 mm ²	Bolt, M6	Fixing rail	M6	only for vertical mounting	25.5 kg	2	240	220	285	190	125
SFB-N 400/61	Screw clamp, 35 mm ²	Bolt, M8	Fixing rail	M8	only for vertical mounting	33.5 kg	2	300	228	335	240	110
SFB-N 400/72	Screw clamp, 35 mm ²	Bolt, M8	Fixing rail	M8	only for vertical mounting	37.0 kg	2	300	240	340	240	133
SFB-N 400/90	Screw clamp, 50 mm ²	Bolt, M8	Fixing rail	M8	only for vertical mounting	53.0 kg	2	300	240	355	240	145
SFB 400/115	Screw clamp, 95 mm ²	Bolt, M8	Fixing rail	M8	only for vertical mounting	66.0 kg	3	360	210	425	264	125
SFB 400/150	Screw clamp, 95 mm ²	Bolt, M8	Fixing rail	M10	only for vertical mounting	69.0 kg	3	360	230	425	264	140
SFB 400/180	Screw clamp, 150 mm ²	Bolt, M8	Fixing rail	M10	only for vertical mounting	75.0 kg	3	365	240	445	264	154
SFB 400/250	Screw clamp, 150 mm ²	Bolt, M12	Fixing rail	M10	only for vertical mounting	120.0 kg	4	400	500	450	326	450
SFB 400/440	Screw clamp, 150 mm ²	Bolt, M12	Fixing rail	M10	only for vertical mounting	200.0 kg	5	630	540	400	550	480
SFB 400/480	Screw clamp, 150 mm ²	Bolt, M14	Fixing rail	M10	only for vertical mounting	220.0 kg	6	750	400	430	450	270

Dimension pictures



All-pole sine filter
SFA 400



General Data

Rated voltage 3 x 400 Vac
Rated current 1.3 - 60 A
Designed for inverter with DC link connector (+Vdc), positive or negative or mid point and works with continuous PWM (please contact our technical support staff)
For motor rated output 1.5 - 30 kW
For switching frequencies ≥ 8 kHz
Rated frequency from 0 to 60 Hz
Insulation class H
Maximum ambient temperature 45 °C

Advantages

Prevention of overvoltages on the motor
Long cable lengths possible
Reduction in motor noise
Minimisation of bearing currents
Minimisation of leakage currents (is beneficial in the event of incorrect RCD tripping)
Reduction in line-borne and field-borne emitted interference: can be omitted from shielded cables, where necessary
Reduction of motor losses

Applications

Sine filter for the suppression of differential mode interference and common mode interference. Designed for inverter with DC link connector (+Vg/+Ug), positive or negative or mid point and works with continuous PWM (please contact our technical support staff).

Standards

Output filter with capacitor for frequency inverters complying with IEC 61558-2-20, UL 508, CSA 22.2 No. 14-10

Approvals



UL 5085-1/-2, CSA 22.2 No.66

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All-pole sine filter SFA 400



Typ	SFA 400/1,3	SFA 400/2,5	SFA 400/4	SFA 400/6	SFA 400/10	SFA 400/16,5
Electrical data						
Operating data						
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Voltage range	380 - 480 Vac	380 - 480 Vac	380 - 480 Vac	380 - 480 Vac	380 - 480 Vac	380 - 480 Vac
Voltage drop	<5 % @ 400 Vac	<5 % @ 400 Vac	<5 % @ 400 Vac	<5 % @ 400 Vac	<5 % @ 400 Vac	<5 % @ 400 Vac
Rated current	1.3 A	2.5 A	4 A	6 A	10 A	16.5 A
for motor rated output approx.	0.55 kW	1.10 kW	1.50 kW	2.20 kW	4.00 kW	7.50 kW
Rated frequency	≤60 Hz	≤60 Hz	≤60 Hz	≤60 Hz	≤60 Hz	≤60 Hz
Switching frequency	≥8 kHz	≥8 kHz	≥8 kHz	≥8 kHz	≥8 kHz	≥8 kHz
Approvals						
Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Environment						
Ambient temperature max.	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
Safety and protection						
Type	Metal enclosure	Metal enclosure	Metal enclosure	Metal enclosure	Metal enclosure	Metal enclosure
Insulation class	F	F	F	F	F	F
Protection index	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
Safety class (prepared)	I	I	I	I	I	I
Test voltage	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz
Order numbers						
Order Number	SFA 400/1,3	SFA 400/2,5	SFA 400/4	SFA 400/6	SFA 400/10	SFA 400/16,5



All-pole sine filter SFA 400



Typ	SFA 400/24	SFA 400/32	SFA 400/40	SFA 400/50	SFA 400/60
Electrical data					
Operating data					
Rated voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Voltage range	380 - 480 Vac	380 - 480 Vac	380 - 480 Vac	380 - 480 Vac	380 - 480 Vac
Voltage drop	<5 % @ 400 Vac	<5 % @ 400 Vac	<5 % @ 400 Vac	<5 % @ 400 Vac	<5 % @ 400 Vac
Rated current	24 A	32 A	40 A	50 A	60 A
for motor rated output approx.	11.00 kW	15.00 kW	18.50 kW	22.00 kW	30.00 kW
Rated frequency	≤60 Hz	≤60 Hz	≤60 Hz	≤60 Hz	≤60 Hz
Switching frequency	≥8 kHz	≥8 kHz	≥8 kHz	≥8 kHz	≥8 kHz
Approvals					
Approvals	cURus	cURus	cURus	cURus	cURus
Environment					
Ambient temperature max.	45 °C	45 °C	45 °C	45 °C	45 °C
Safety and protection					
Type	Metal enclosure	Metal enclosure	Metal enclosure	Metal enclosure	Metal enclosure
Insulation class	F	F	F	F	F
Protection index	IP 20	IP 20	IP 20	IP 20	IP 20
Safety class (prepared)	I	I	I	I	I
Test voltage	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz	2500 Vac, 50 Hz
Order numbers					
Order Number	SFA 400/24	SFA 400/32	SFA 400/40	SFA 400/50	SFA 400/60

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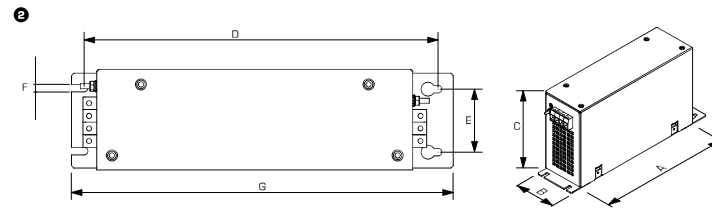
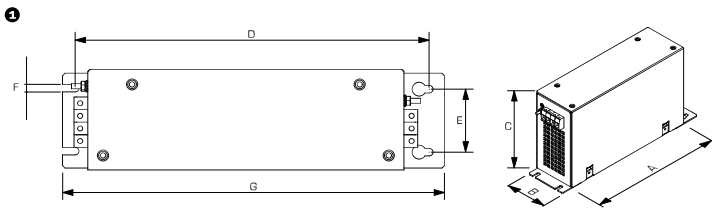


All-pole sine filter SFA 400



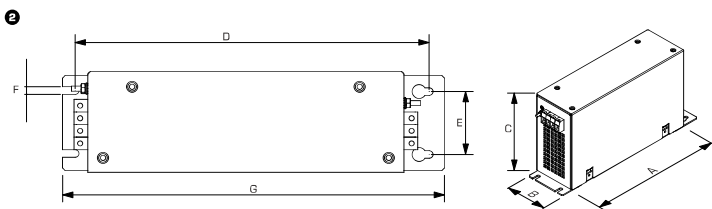
Mechanical data	Typ	Terminals phase	Terminals PE	Fixing method	Fixing screws	Weight	Dimension picture (in mm)	A	B	C	D	E	F	G
								1	2	1	2	1	2	1
	SFA 400/1,3	Screw clamp, 4 mm ²	Bolt, M4	Mounting lugs	M5	3.2 kg	1	250	80	150	280	50	6	302
	SFA 400/2,5	Screw clamp, 4 mm ²	Bolt, M4	Mounting lugs	M5	4.7 kg	1	250	80	150	280	50	6	302
	SFA 400/4	Screw clamp, 4 mm ²	Bolt, M4	Mounting lugs	M5	7.4 kg	2	290	80	170	320	50	6	342
	SFA 400/6	Screw clamp, 10 mm ²	Bolt, M4	Mounting lugs	M5	8.1 kg	2	290	80	170	320	50	6	342
	SFA 400/10	Screw clamp, 10 mm ²	Bolt, M5	Mounting lugs	M6	11.0 kg	1	320	135	200	355	100	6.5	372
	SFA 400/16,5	Screw clamp, 10 mm ²	Bolt, M5	Mounting lugs	M6	17.0 kg	2	320	135	200	355	100	6.5	372
	SFA 400/24	Screw clamp, 16 mm ²	Bolt, M6	Mounting lugs	M6	25.0 kg	2	370	260	200	400	230	6.5	430
	SFA 400/32	Screw clamp, 16 mm ²	Bolt, M6	Mounting lugs	M6	27.0 kg	2	400	280	200	430	230	6.5	460
	SFA 400/40	Screw clamp, 16 mm ²	Bolt, M6	Mounting lugs	M6	34.0 kg	2	450	310	250	480	250	6.5	510
	SFA 400/50	Screw clamp, 16 mm ²	Bolt, M6	Mounting lugs	M6	45.0 kg	2	500	310	250	530	250	6.5	560

Dimension pictures



Mechanical data	Typ	Terminals phase	Terminals PE	Fixing method	Fixing screws	Weight	Dimension picture (in mm)	A	B	C	D	E	F	G
								2	1	2	1	2	1	2
	SFA 400/60	Screw clamp, 35 mm ²	Bolt, M8	Mounting lugs	M6	56.0 kg	2	550	310	250	580	250	6.5	610

Dimension pictures



All-pole sine filter
SFA 500



General Data

Rated voltage 3 x 500 Vac
For switching frequencies ≥ 4 kHz
For motor rated output 2.2 - 45 kW
Maximum ambient temperature 45 °C
Degree of protection IP 20
Rated current 6 - 65 A
Rated frequency from 5 to 150 Hz
Insulation class H

Advantages

Efficiency optimisation of the drive system
Use of unshielded motor cables
Improves conducted and radiated electromagnetic interference (150 kHz - 300 MHz)
Significant reduction of leakage currents
Elimination of bearing currents
Increase of motor service life

Applications

Sine filter for the suppression of differential mode interference and common mode interference. Designed for inverter with DC link connector (+Vg/+Ug), positive or negative or mid point and and works with continuous PWM (please contact our technical support staff).

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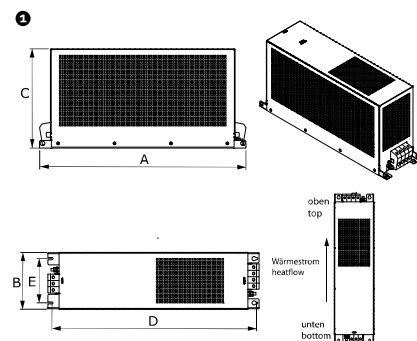
All-pole sine filter SFA 500



Typ	SFA 500/6	SFA 500/13	SFA 500/24	SFA 500/46
Electrical data				
Operating data				
Rated voltage	3 x 500 Vac	3 x 500 Vac	3 x 500 Vac	3 x 500 Vac
Rated frequency	5 - 150 Hz	5 - 150 Hz	5 - 150 Hz	5 - 150 Hz
Voltage range	0 - 500 Vac	0 - 500 Vac	0 - 500 Vac	0 - 500 Vac
Voltage drop	< 6.5 % @ 400 Vac	< 6.5 % @ 400 Vac	< 6.5 % @ 400 Vac	< 6.5 % @ 400 Vac
Rated current	6 A (400 V ≥ 4 kHz) 5,2 A (500 V ≥ 4 kHz)	13 A (400 V ≥ 4 kHz) 11,8 A (500 V ≥ 4 kHz)	24 A (400 V ≥ 4 kHz) 22,6 A (500 V ≥ 4 kHz)	46 A (400 V ≥ 4 kHz) 43,3 A (500 V ≥ 4 kHz)
for motor rated output approx.	2,20 kW	5,50 kW	11,00 kW	22,00 kW
Output				
Vector group	III	III	III	III
Switching frequency	≥ 4 kHz	≥ 4 kHz	≥ 4 kHz	≥ 4 kHz
Environment				
Ambient temperature	-10 to +45 °C	-10 to +45 °C	-10 to +45 °C	-10 to +45 °C
Type of cooling	AN	AN	AN	AN
Safety and protection				
Type	Metal enclosure	Metal enclosure	Metal enclosure	Metal enclosure
Protection index	IP 20	IP 20	IP 20	IP 20
Safety class (prepared)	I	I	I	I
Insulation class	H	H	H	H
Order numbers				
Order Number	SFA 500/6	SFA 500/13	SFA 500/24	SFA 500/46

Terminal and mounting	SFA 500/6	SFA 500/13	SFA 500/24	SFA 500/46
Mechanical data				
Terminal and mounting				
Terminals phase	Screw clamp, 10 mm ²	Screw clamp, 10 mm ²	Screw clamp, 16 mm ²	Screw clamp, 16 mm ²
Terminals PE	Bolt, M6	Bolt, M6	Bolt, M6	Bolt, M6
Fixing method	Mounting lugs	Mounting lugs	Mounting lugs	Mounting lugs
Fixing screws	M6	M6	M6	M6
Measures and weights				
Weight	14,0 kg	18,0 kg	25,0 kg	40,0 kg
Dimension picture (in mm)	①	①	①	①
A	310	390	450	450
B	105	120	135	160
C	160	215	270	310
D	290	370	430	430
E	75	90	100	120

Dimension pictures





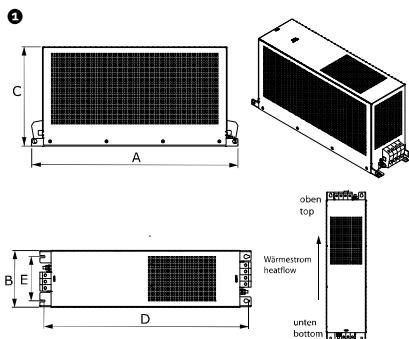
All-pole sine filter SFA 500



+	Typ	SFA 500/65
Electrical data	Operating data	
	Rated voltage	3 x 500 Vac
	Rated frequency	5 - 150 Hz
	Voltage range	0 - 500 Vac
	Voltage drop	< 6.5 % @ 400 Vac
	Rated current	65 A (400 V ≥ 4 kHz) 59 A (500 V ≥ 4 kHz)
	for motor rated output approx.	45.00 kW
	Output	
	Vector group	III
	Switching frequency	≥ 4 kHz
Environment		
Ambient temperature	-10 to +45 °C	
Type of cooling	AN	
Safety and protection		
Type	Metal enclosure	
Protection index	IP 20	
Safety class (prepared)	I	
Insulation class	H	
Order numbers		
Order Number	SFA 500/65	

30 Mechanical data	Terminal and mounting	
	Terminals phase	Screw clamp, 50 mm ²
	Terminals PE	Bolt, M8
	Fixing method	Mounting lugs
	Fixing screws	M6
	Measures and weights	
	Weight	57.0 kg
	Dimension picture (in mm)	1
	A	670
	B	180
C	320	
D	650	
E	140	

Dimension pictures



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BLOCKLAB
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EMC service

All our products, such as transformers, reactors, power supplies and radio interference suppression filters are developed and produced with the customer and market in mind. Our accredited EMC test laboratory functions as an independent business division. The laboratory concentrates on EMC services for products in the capital goods industry.

- Consultancy, contribution, suppression
- There right from the start of development
- EMC interference suppression components
- DIN EN ISO 9001 certified,
accredited according to DIN EN ISO/IEC 17025
- Mobile EMC-equipment



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BLOCKLAB

EMC SERVICES CATALOG

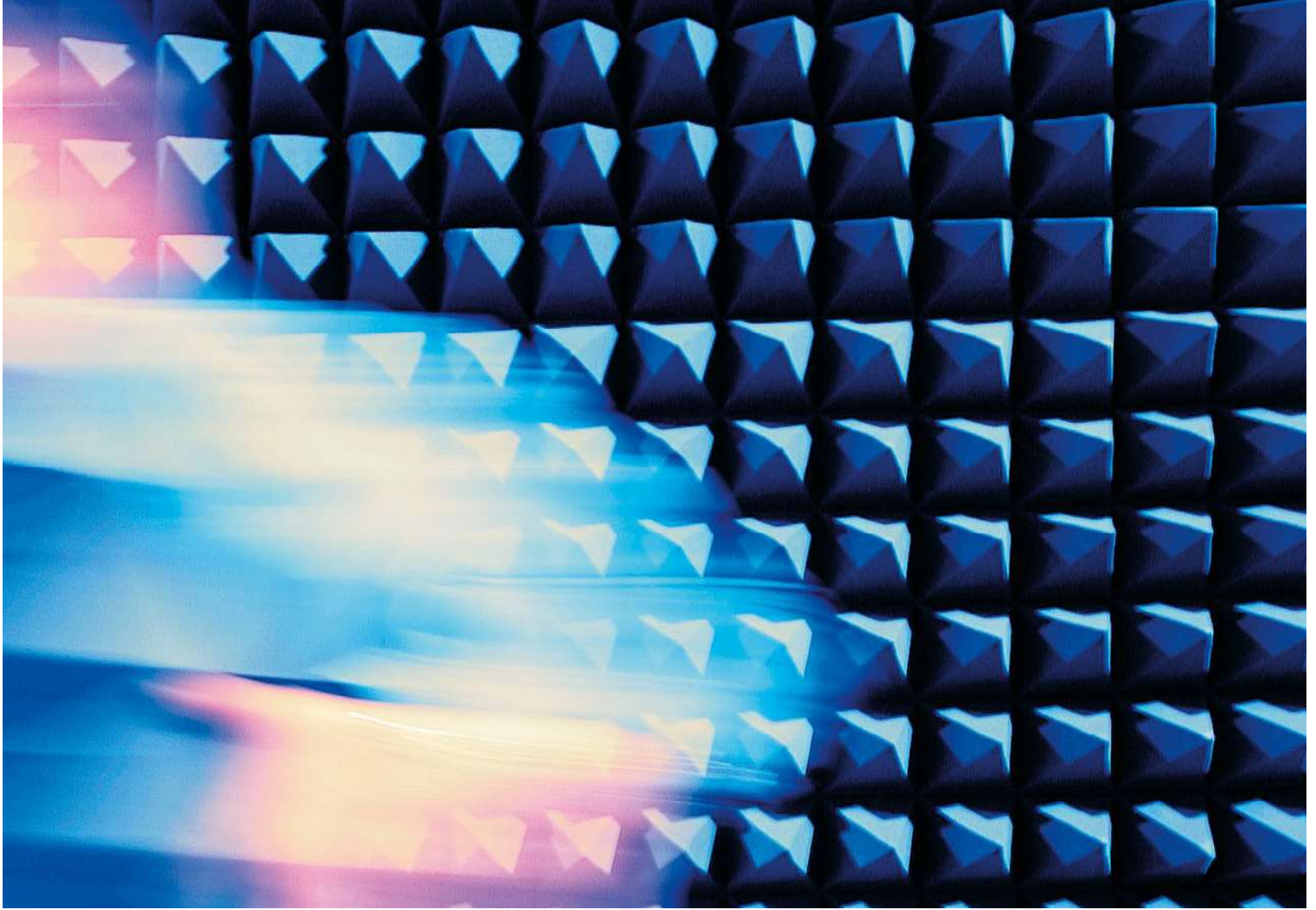


Standard	Test
Immunity to interference	
DIN EN 61000-4-2	ESD, discharge of static electricity up to 15 kV
DIN EN 61000-4-3	High-frequency electromagnetic fields 80 MHz–1 GHz, up to 10 V/m (3 m test track), in the absorber booth
DIN EN 61000-4-4	BURST, rapid transient electrical interference parameters, 5/50 ns, 5 kHz and 100 kHz repeat frequency, to 4 kV
DIN EN 61000-4-5	SURGE, surge voltage, 1.2/50 (8/20) µs, up to 4 kV
DIN EN 61000-4-6	Line-guided high frequency, 0.15 – 80 MHz, up to 10 V/140 dBµV
DIN EN 61000-4-11	Voltage dips, short-term interruptions, voltage fluctuations (up to 25 A)
DIN EN 61000-4-13	Harmonics and interharmonics
Interference emissions	
DIN EN 61000-3-2	Line-guided mains feedback, harmonics up to 2 kHz/16 A
DIN EN 61000-3-3	Line-guided mains feedback, flicker/voltage fluctuations up to 16 A
DIN EN 61000-3-12	Line-guided mains feedback, up to 2 kHz/16 A < I ≤ 75 A
DIN EN 55011, DIN EN 55022	Line-guided mains feedback 10 kHz – 30 MHz
DIN EN 55011, DIN EN 55022	Radiated interference 30 MHz – 1 GHz

More services

- Material tests
- Shock and vibration tests
- Climatic testing





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Material tests

- Partial discharge test up to 100 kV
- Temperature rise test max. 80 channels
- Power Audit up to 24 h monitoring
- Power quality test weekly monitoring

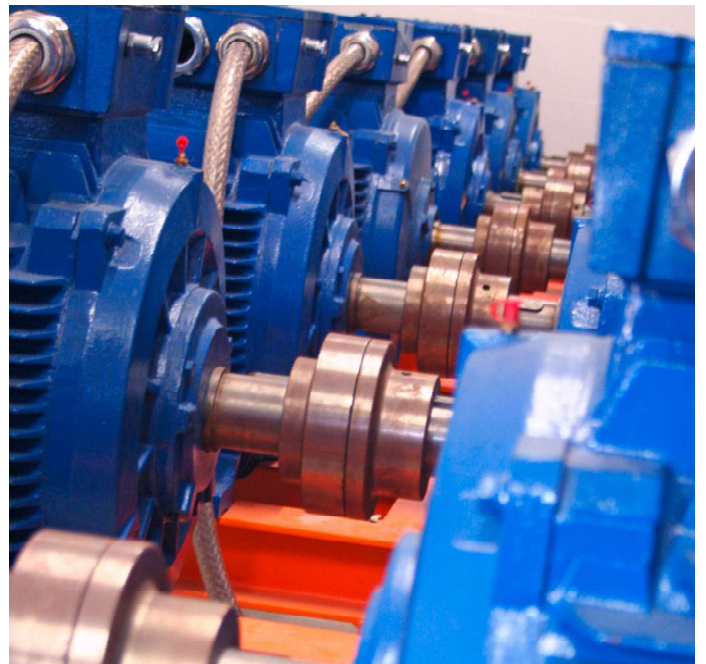


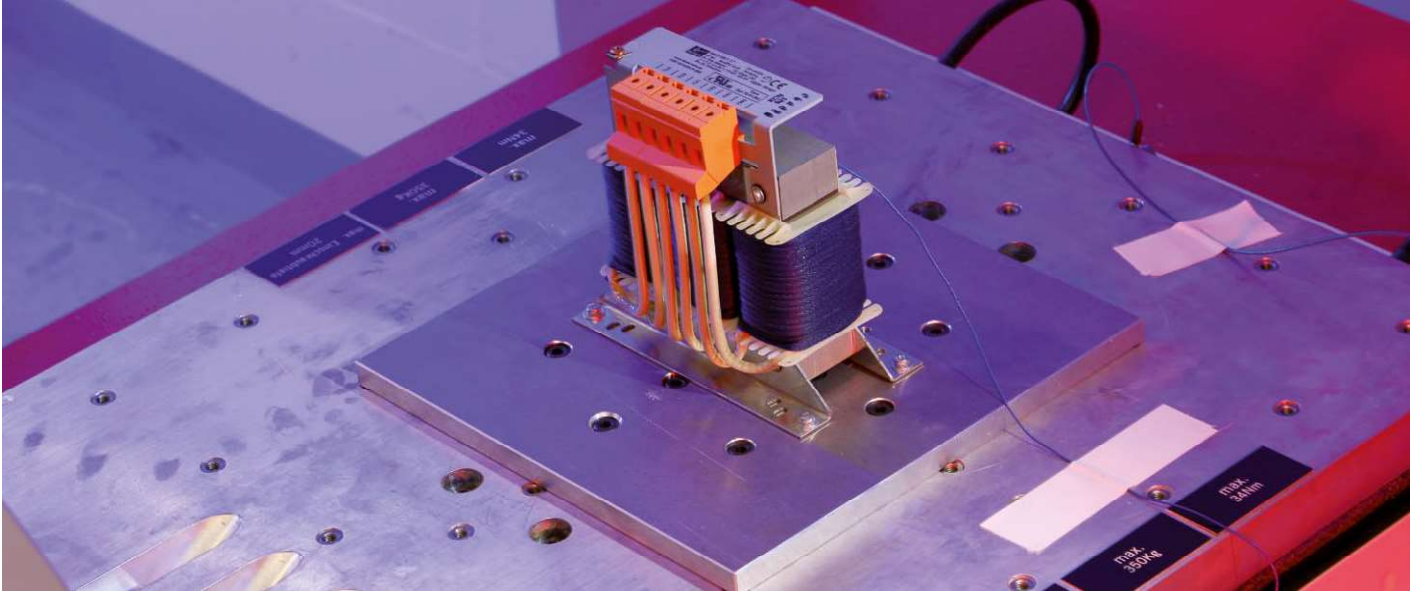


45 kVA Electronic power source (AC+DC) with a power up to 45 kVA. For simulating worldwide power quality situations and failures.

1 MVA

Test stand for testing and optimising our products under actual conditions.





Shock and vibration tests

max. weight of DUT up to 350 kg
Swept Sine, Shock and Random

- Max. Peak-Force
22.2 kN
- Max. Acceleration
Sine 40 g (60 g vertical)
- Shock (half-sine)
150 g
- Random (RMS)
30 g
- Max. Velocity
2 m/s

About our products and services

BLOCK has many years of design engineering experience and works in partnership with its customers, providing a variety of sources of support for proving the reliability of products when subject to environmental and operational loads. We will be at your side at every stage of the product creation process, helping you to select suitable trials and even carrying out in-process reliability tests.



Thermal simulation

- Temperature range
-80 °C – +180 °C
- Humidity
0 % – 100 %

- EMC service
- Climatic testing
- Shock and vibration testing
- Partial discharge measuring
- RoHS screening

1.1

1.2

1.3

2.1

2.2

3.1

3.2

3.3

4.0

5.1

5.2

