

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 BLOCKIMPEX 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



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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	8.6 % @ 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
Class of Insulation System	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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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
Class of Insulation System	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
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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
Class of Insulation System	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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Typ	Connections phase	Connections 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	4.00 kg	1	155	110	160	130	56
SFB 400/10	Screw clamp, 4 mm ²	Bolt, M4	Fixing rail	M5	only for vertical mounting	5.50 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	9.50 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	14.50 kg	2	240	190	280	190	95
SFB 400/32	Screw clamp, 16 mm ²	Bolt, M6	Fixing rail	M6	only for vertical mounting	19.00 kg	2	240	200	280	190	105
SFB 400/37	Screw clamp, 16 mm ²	Bolt, M6	Fixing rail	M6	only for vertical mounting	21.00 kg	2	240	210	280	190	115
SFB 400/48	Screw clamp, 16 mm ²	Bolt, M6	Fixing rail	M6	only for vertical mounting	25.50 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	33.50 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	37.00 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	53.00 kg	2	300	240	355	240	145
SFB 400/115	Screw clamp, 95 mm ²	Bolt, M8	Fixing rail	M8	only for vertical mounting	66.00 kg	3	360	210	425	264	125
SFB 400/150	Screw clamp, 95 mm ²	Bolt, M8	Fixing rail	M10	only for vertical mounting	69.00 kg	3	360	230	425	264	140
SFB 400/180	Screw clamp, 150 mm ²	Bolt, M8	Fixing rail	M10	only for vertical mounting	75.00 kg	3	365	240	445	264	154
SFB 400/250	Screw clamp, 150 mm ²	Bolt, M12	Fixing rail	M10	only for vertical mounting	120.00 kg	4	400	500	450	326	450
SFB 400/440	Screw clamp, 150 mm ²	Bolt, M12	Fixing rail	M10	only for vertical mounting	200.00 kg	5	630	540	400	550	480
SFB 400/480	Screw clamp, 150 mm ²	Bolt, M14	Fixing rail	M10	only for vertical mounting	220.00 kg	6	750	400	430	450	270

Dimension pictures

