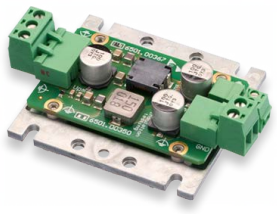
Electronic filters



EFS 5004 S

		EFS 5004 S	
Power supply	U_P	0 ... 50	V
Continuous output current	I_{cont}	4	A
Max. peak current [1]	I_{max}	12	A
Operating temperature range		-25 ... + 65	°C
Storage temperature range		-25 ... + 85	°C
Dimensions (L x W x H)		65 x 58 x 21,7	mm
Mass		77	g

[1] S2 operation for max. 3s

General information

These filters are special for applications that either cannot use the motor filter (e.g., integrated controllers) or in which the filtering by the ferrite-based motor filters is not sufficient.

Functional principle:

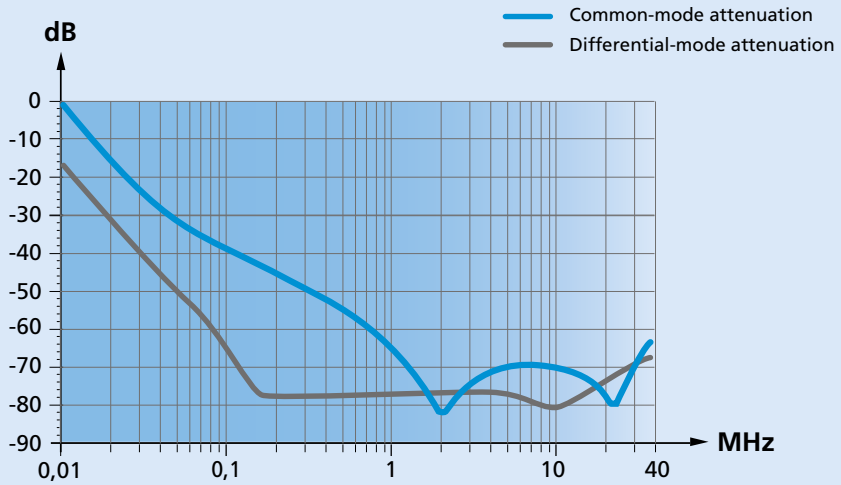
Discharge of common-mode interferences with a common-mode choke, a low-pass filter and capacitors between functional earth and DC power supply.

Typical attenuation

Common-mode attenuation describes the attenuation of the filter for compensation of high-frequency interference at the semiconductor output stage.

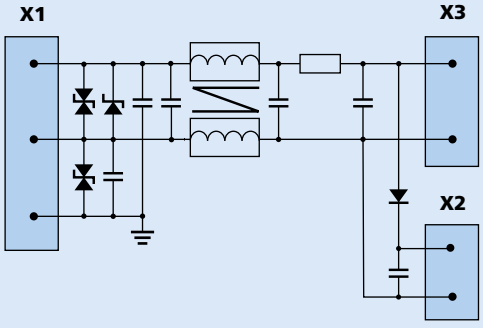
Differential-mode attenuation indicates how much current, caused by low motor PWM or high currents, can be attenuated.

Details on use of the filter are given in the respective technical manual.

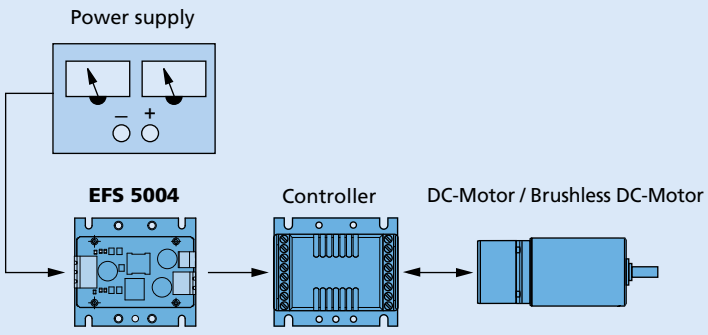


Circuit diagram / Connection diagram

Circuit diagram



Connection diagram



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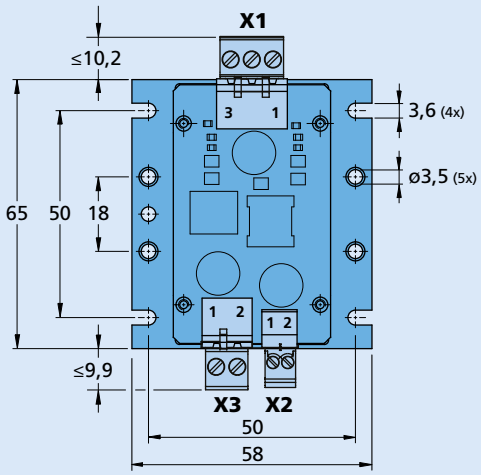
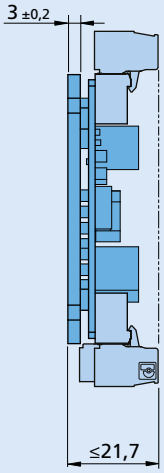
Dimensional drawing and connection information



EFS 5004 S



Scale reduced

Connection information

No. X1 Input power supply	
1	GND
2	Up
3	PE / FE Housing GND

No. X2 Electronic power supply	
1	GND
2	Up

No. X3 Motor power supply	
1	GND
2	Umot

Product combination

Speed Controller	Motion Controller	Motion Control Systems
SC 5004 P	MC 5004 P	MCS 3242 ... BX4
SC 5008 S	MC 5005 S	MCS 3268 ... BX4
	MC 5010 S	MCS 3274 ... BP4

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