

# **Accessories**

# **Electronic filters**

# EFS 5004 / 3004

		EFS 5004 S	EFS 3004 S	
Power supply	UP	0 50	0 30	V
Continuous output current	<b>I</b> cont	4		Α
Max. peak current 1)	<b>I</b> max	12		Α
Operating temperature range		-25 + 65		°C
Storage temperature range		-25 + 85		°C
Dimensions (L x W x H)		65 x 58 x 18		mm
Mass		67		g
				13

<sup>1)</sup> 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:**

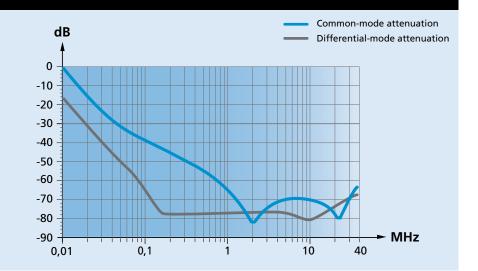
Discharge of common-mode interferences with a common-mode choke, a low-pass filter and capacitors between functional earth and DC power supply.

# 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.

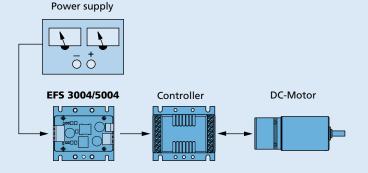


### Circuit diagram / Connection diagram

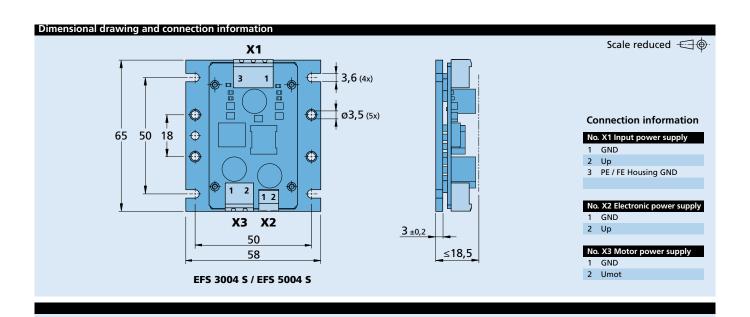
**Circuit diagram** 

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# Connection diagram







Product combination						
Electronic Filters	Speed Controller	Motion Controller	Motion Control Systems			
EFS 3004 S	SC 1801 P SC 1801 F SC 1801 S SC 2402 P SC 2804 S		3242 BX4 3268 BX4 MCS 3242 BX4 MCS 3268 BX4 MCS 3274 BP4			
EFS 5004 S	SC 5004 P SC 5008 S	MC 5004 P MC 5005 S MC 5010 S	MCS 3242 BX4 MCS 3268 BX4 MCS 3274 BP4			