

Electronic filters

EFC 5008 S

EFC 5008 S			
Power supply	U_P	0 ... 50	V
Max. continuous power losses ¹⁾	P_{cont}	400	W
Continuous output current	I_{cont}	8	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		78	g

¹⁾ at 22°C ambient temperature

General information

These filters only require three phase connections. The 0 V return line is not required.

All commonly used PWM frequencies of the FAULHABER controllers can be used.

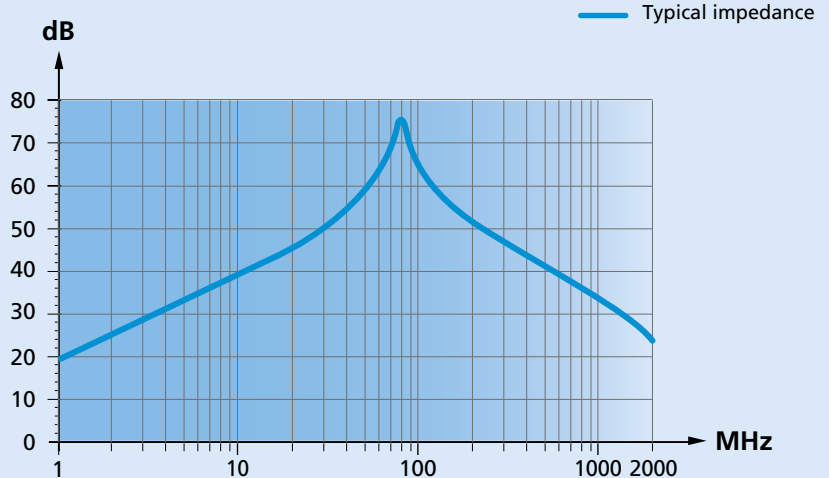
The filters reduce the rise time of the motor voltage/current and thereby reduce the high-frequency coupling currents on the shield.

It is recommended to keep the connection cable between the controller and filter as short as possible.

Typical impedance

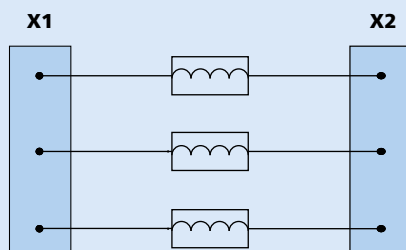
Typical impedance describes the attenuation of the filter for compensation of high-frequency interference at the semiconductor output stage.

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

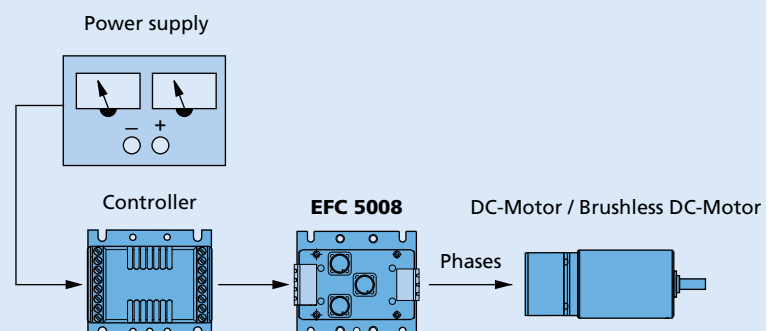


Circuit diagram / Connection diagram

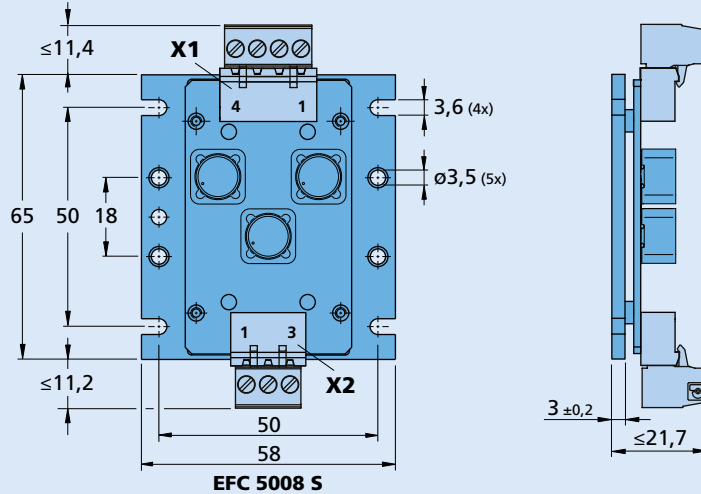
Circuit diagram



Connection diagram



Dimensional drawing and connection information



Scale reduced 

Connection information

X1 EFC 5008 S input

- 1 Motor C
- 2 Motor B
- 3 Motor A
- 4 GND

X2 Motor output

- 1 Motor A
- 2 Motor B
- 3 Motor C

Product combination

Speed Controller

SC 1801 P
SC 1801 F
SC 1801 S
SC 2402 P
SC 2804 S
SC 5004 P
SC 5008 S

Motion Controller V3.0

MC 5004 P
MC 5005 S
MC 5010 S