

Accessories

Electronic filters

EFC 5008

		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 18	mm
Mass		66	g

¹⁾ at 22°C ambient temperature

General information

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

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

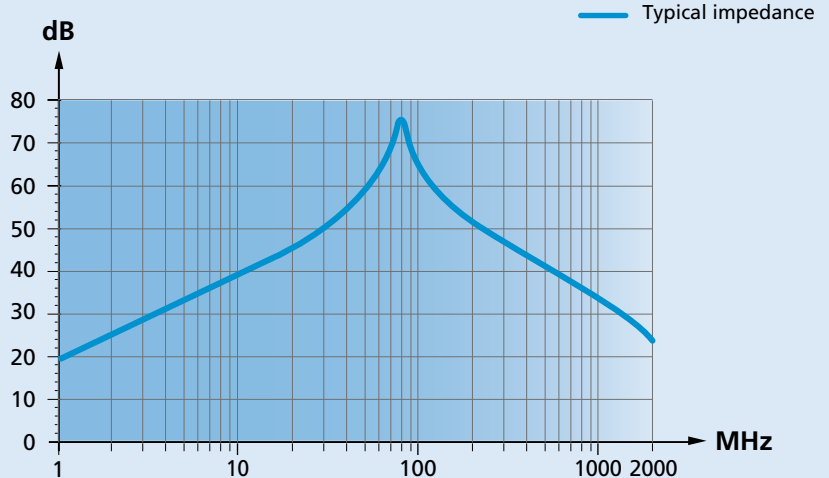
All commonly used PWM frequencies of the FAULHABER controllers can be used.

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

Typical impedance

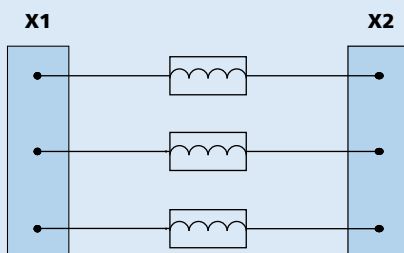
Typical impedance describes the attenuation of the filter for compensation of high-frequency interference at the semiconductor output stage.

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

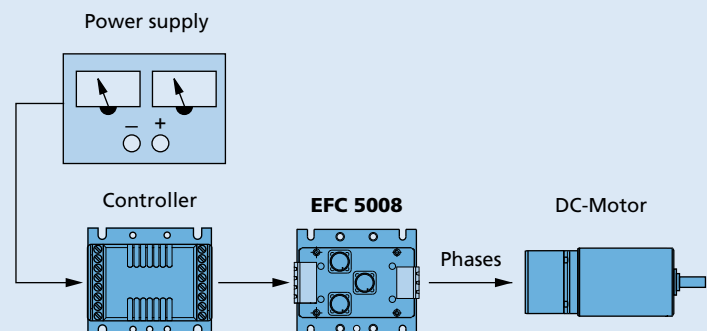


Circuit diagram / Connection diagram

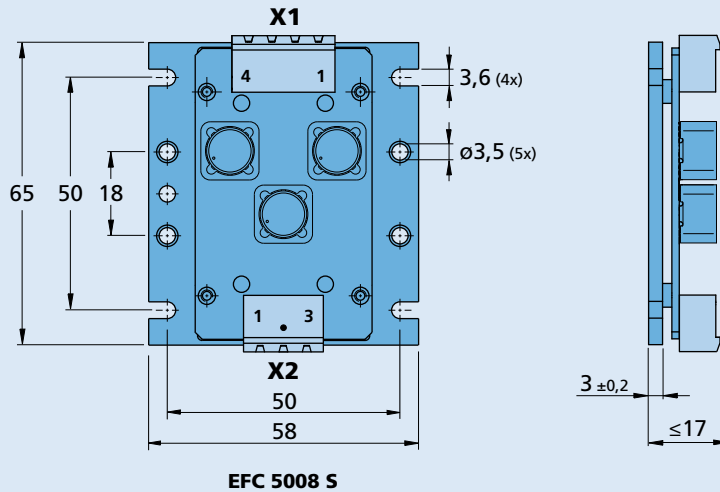
Circuit diagram




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

Electronic Filters	Speed Controller	Motion Controller V3.0	
EFC 5008 S	SC 1801 P SC 1801 F SC 1801 S SC 2402 P SC 2804 S SC 5004 P SC 5008 S	MC 5004 P MC 5005 S MC 5010 S	