NEW

FAULHABER

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.

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

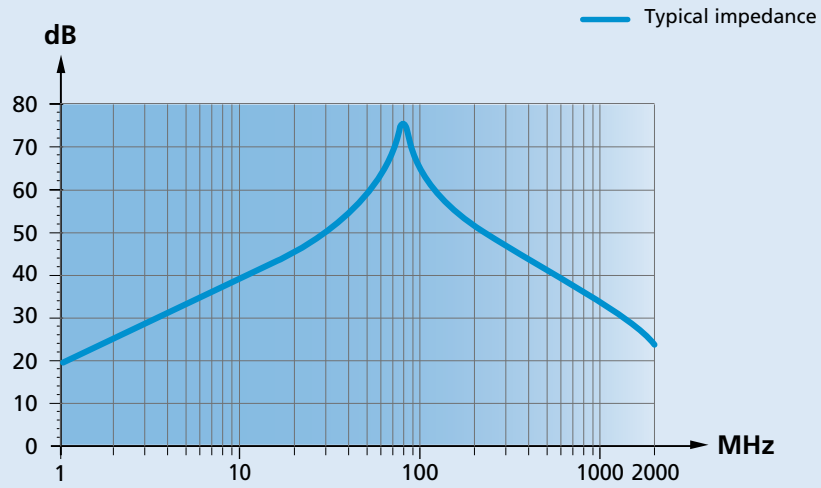
The filters reduce the rise time of the motor voltage/current and thereby reduce the high-frequency coupling currents on the shield.

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

Typical impedance

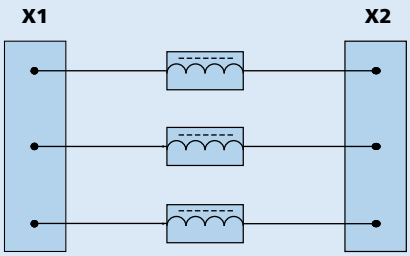
Typical impedance describes the attenuation of the filter for compensation of high-frequency interference at the semiconductor output stage.

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

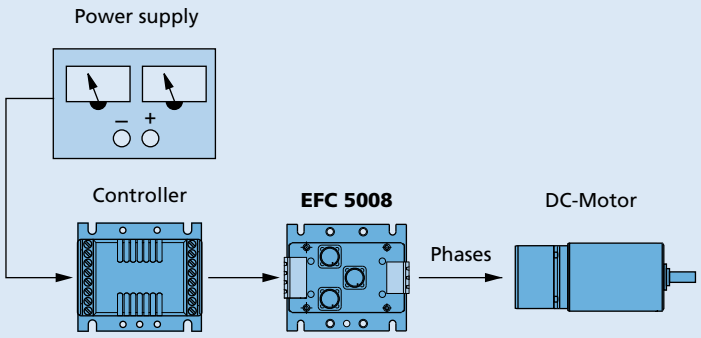


Circuit diagram / Connection diagram

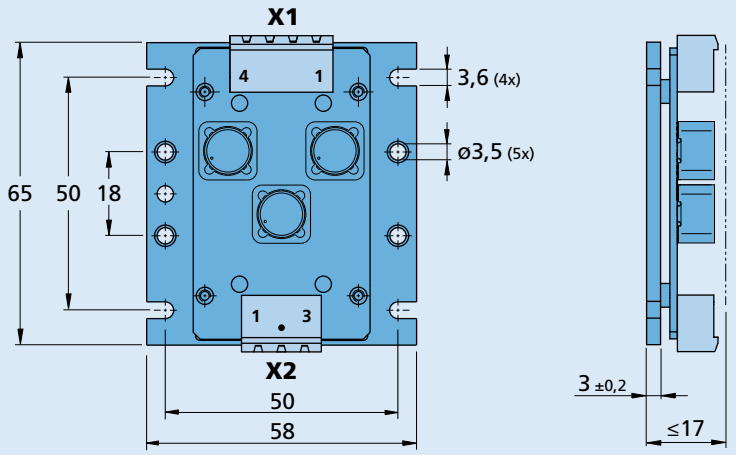
Circuit diagram



Connection diagram



Dimensional drawing and connection information



EFC 5008 S

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 V2.5	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	MCDC 3002 MCBL 3002 MCBL 3002 AES MCLM 3002 MCDC 3006 MCBL 3006 MCBL 3006 AES MCLM 3006	MC 5004 MC 5005 MC 5010

For detailed information regarding FAULHABER accessories please refer to the instruction manuals.

Edition 2020 Oct. 27

www.faulhaber.com