

Electronic filters

EFC 5002 S

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Power supply	U_P	0 ... 50	V
Max. continuous power losses ¹⁾	P_{cont}	100	W
Continuous output current	I_{cont}	2	A
Operating temperature range		-25 ... + 65	°C
Storage temperature range		-25 ... + 85	°C
Dimensions (L x W x H)		40 x 57 x 33,2	mm
Mass		37	g

¹⁾ at 22°C ambient temperature

General information

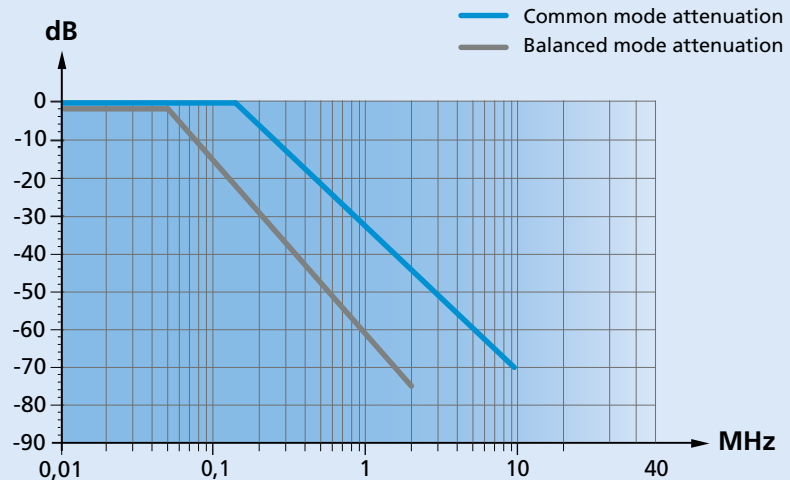
This filter can significantly reduce the interference emitted by DC Motors.
The filters are inserted directly into the motor connection.

It is recommended to keep the connection cable between the filter and the motor as short as possible and to use a shielded cable.

Typical attenuation

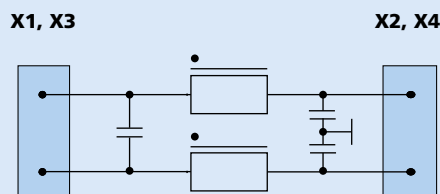
Balanced and common mode attenuation describe the attenuation behaviour of the filter for compensating medium and high-frequency interference in the commutation system.
Such interference can occur between the motor terminals, or between the motor terminals and ground or the motor housing.

Details on the application of the filter are described in the respective device manual.

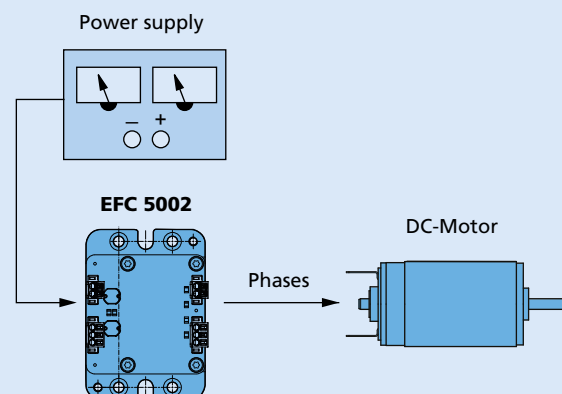


Circuit diagram / Connection diagram

Circuit diagram

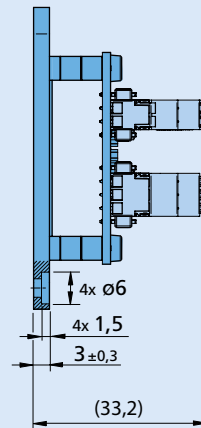
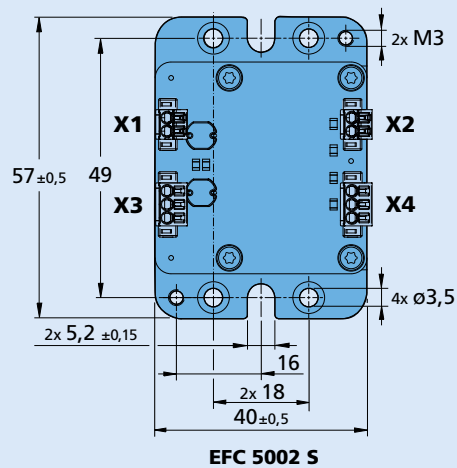


Connection diagram



Dimensional drawing and connection information

Scale reduced 



Connection information

PIN	Connection X1
1	Voltage supply +
2	Voltage supply -
PIN	Motor connection X2
1	Motor +
2	Motor -
PIN	Connection X3
1	Voltage supply +
2	Voltage supply -
3	N.C.
PIN	Motor connection X4
1	Motor +
2	Motor -
3	N.C.

Product combination

DC-Motors

1218 ... SXR
1228 ... SXR
1424 ... SXR
1437 ... SXR
1437 ... GXR
1627 ... SXR
1627 ... GXR