

Magnetically Compensated Choke, 1- and 3-phase



Approvals and Compliances

Description

- Current compensated choke
- 1- or 3-phase choke
- THT terminals or wire leads
- Flange for mounting onto printed circuit board
- Fully potted resign

Applications

- Attenuation of common mode interferences
- May also be used in direct current applications where magnetic compensation is required
- Designed for 230/400 VAC applications

Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

Rated voltage	up to 440 VAC
Rated Current	0.5 - 15 A @ Ta 40 °C
Rated inductance	1 - 20 mH, Tol. -30% +50%
Power Operating Frequency	50 - 400 Hz
Terminal Type	THT, Flexible wire
Weight	6 - 163 g
Material: Housing	UL 94V-0
Sealing Compound	UL 94V-0

Test Voltage	1.8 kV, 50Hz, 1 min, winding to winding
Isolation Voltage	2 kV eff., winding to ambient
Climatic Category	25/100/21 acc. to IEC 60068-1
Allowable Operation Temp.	-25 °C to 100 °C

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: DFK

Approval Logo	Certificates	Certification Body	Description
	UL Approvals	UL	UL File Number:

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

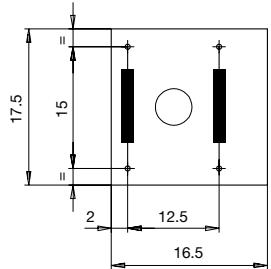
Compliances

The product complies with following Guide Lines

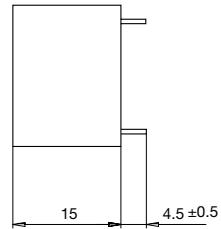
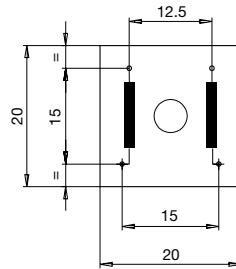
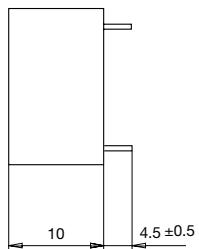
Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

Dimension [mm]

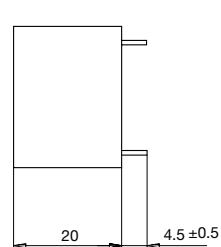
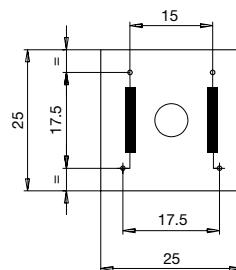
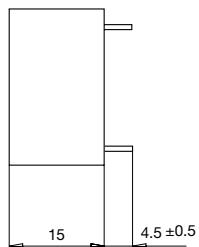
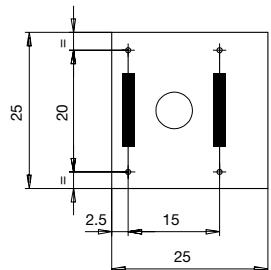
Case 03



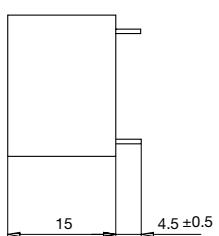
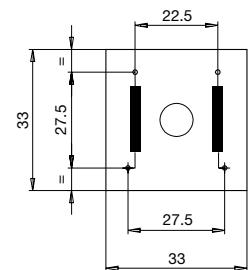
Case 07



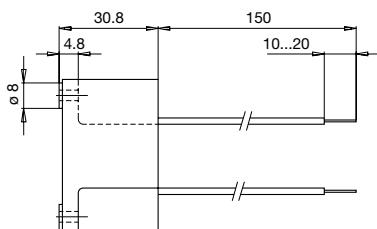
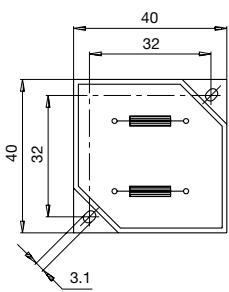
Case 11



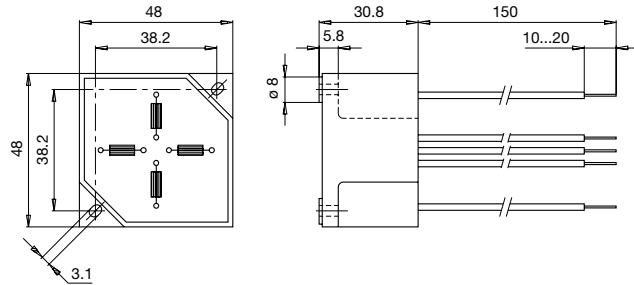
Case 20



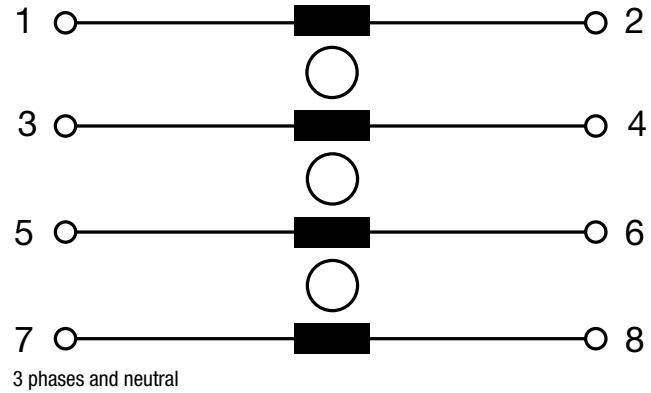
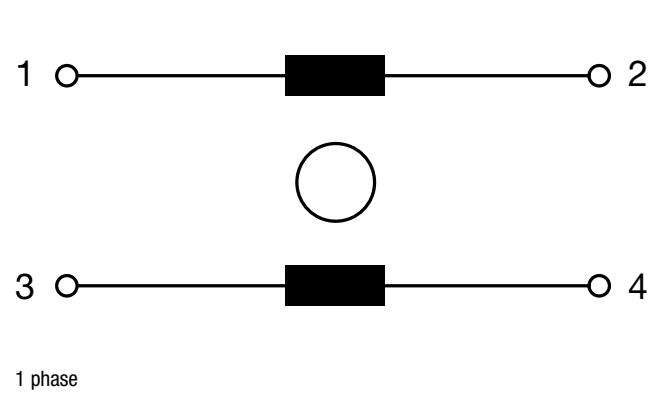
Case 25-2



Case 29-4

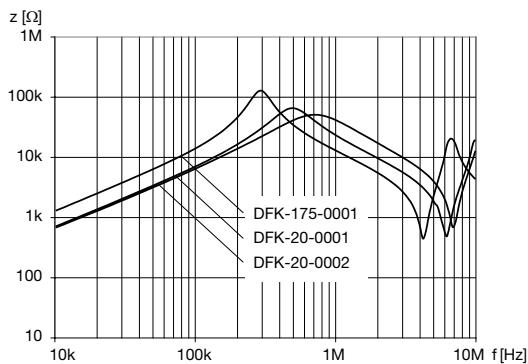


Diagrams

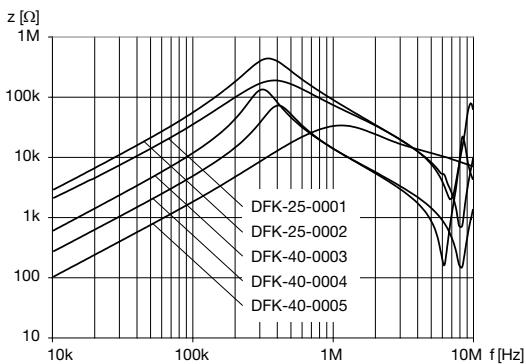


Impedance curves

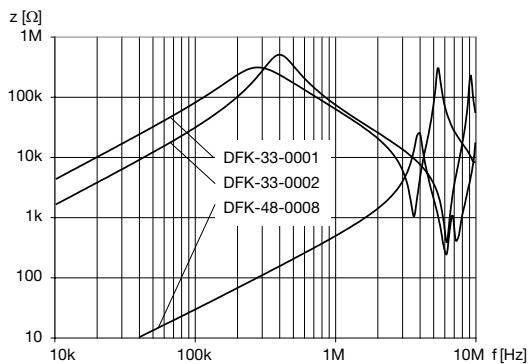
DFK-175-xxxx, DFK-20-xxxxx



DFK-25-xxxx, DFK-40-xxxxx



DFK-33-xxxx, DFK-48-xxxxx



All Variants

I_n [A]	L_n [mH]	R_{cu} [mΩ]	f_{RES} [MHz]	Copper ø [mm]	Weight [g]	Housings	Packing unit [pcs.]	Order Number
0.5	10	900	0.5	0.5	6g	03	100	DFK-175-0001
1	10	500	0.7	0.6	12g	07	150	DFK-20-0001
1	20	500	0.5	0.6	12g	07	150	DFK-20-0002
1	10	510	0.5	0.6	18g	11	50	DFK-25-0001
2	10	250	0.5	0.6	18g	12	50	DFK-25-0002
2	20	250	0.3	0.6	37g	20	45	DFK-33-0001
3	10	150	0.38	0.6	37g	20	45	DFK-33-0002
6	4	27	0.4	-	127g	25-2	10	DFK-40-0003
10	2	9	1.45	-	127g	25-2	10	DFK-40-0004
15	1	10	1.45	2.5 x 2.5	127g	25-2	10	DFK-40-0005
6	4 x 1.5	20	0.2	1.5 x 1.5	163g	29-4	10	DFK-48-0008

Availability for all products can be searched real-time: <https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>