

## 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 resin

### 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, 50 Hz, 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
	<a href="#">UL Approvals</a>	UL	UL File Number:

### Application standards

Application standards where the product can be used

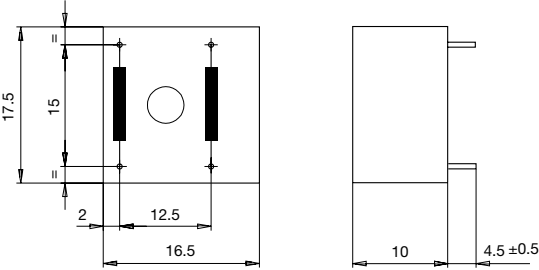
Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

### Compliances

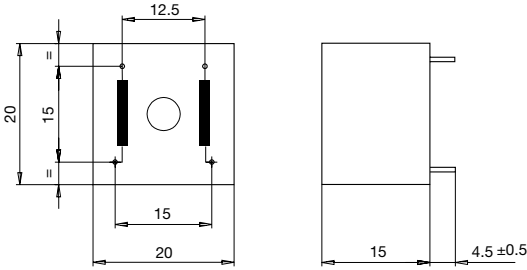
The product complies with following Guide Lines

Identification	Details	Initiator	Description
	<a href="#">CE declaration of conformity</a>	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.
	<a href="#">RoHS</a>	SCHURTER AG	EU Directive RoHS 2011/65/EU
	<a href="#">China RoHS</a>	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.
	<a href="#">REACH</a>	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.

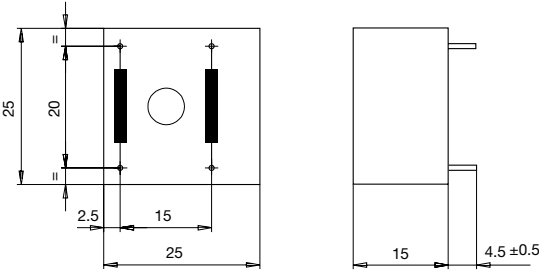
Dimension [mm]  
Case 03



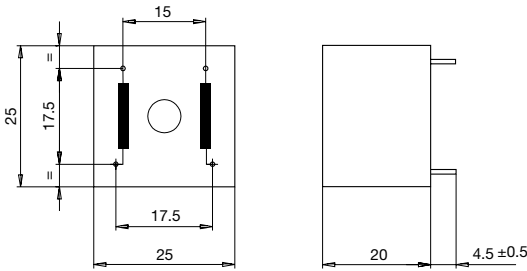
Case 07



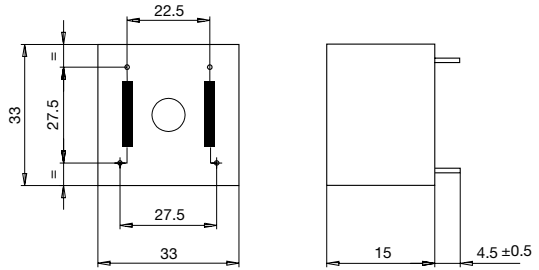
Case 11



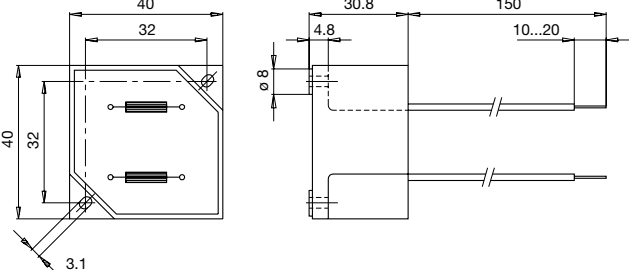
Case 12



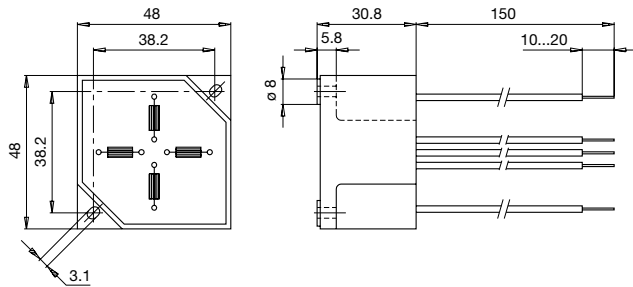
Case 20



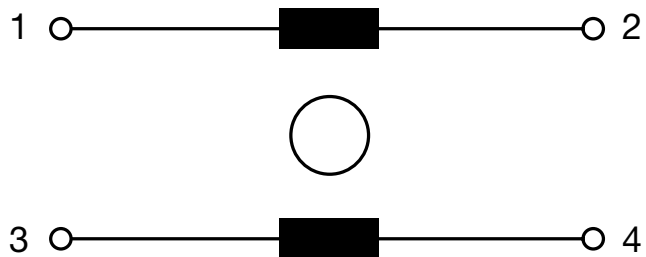
Case 25-2



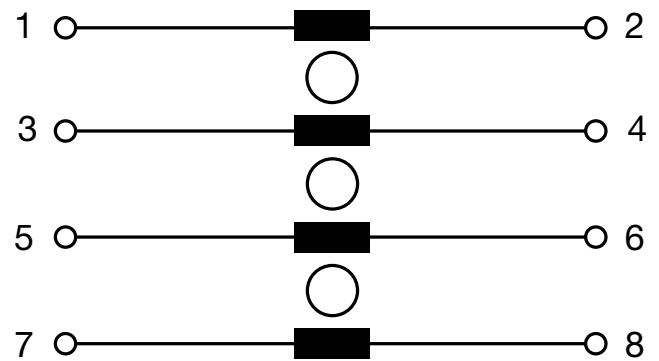
Case 29-4



Diagrams



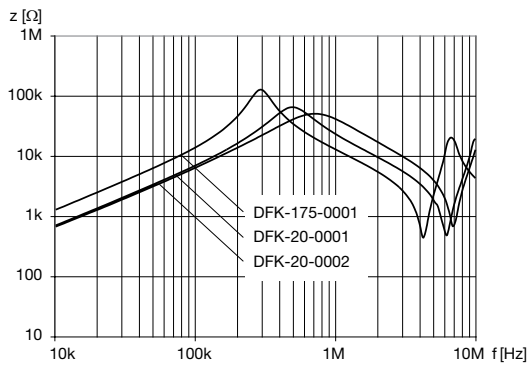
1 phase



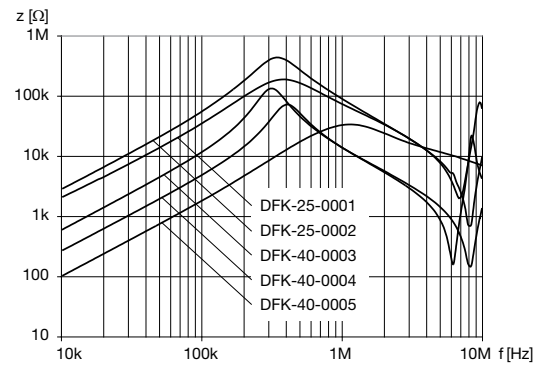
3 phases and neutral

## Impedance curves

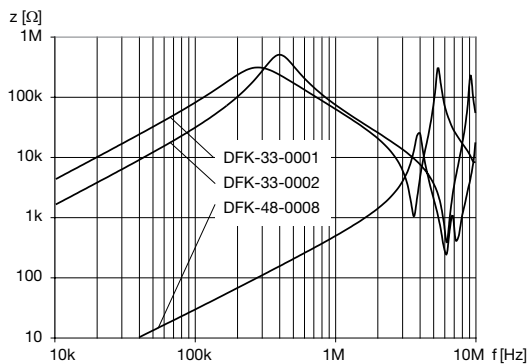
DFK-175-xxxx, DFK-20-xxxx



DFK-25-xxxx, DFK-40-xxxx



DFK-33-xxxx, DFK-48-xxxx



## 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	6 g	03	100	<a href="#">DFK-175-0001</a>
1	10	500	0.7	0.6	12 g	07	150	<a href="#">DFK-20-0001</a>
1	20	500	0.5	0.6	12 g	07	150	<a href="#">DFK-20-0002</a>
1	10	510	0.5	0.6	18 g	11	50	<a href="#">DFK-25-0001</a>
2	10	250	0.5	0.6	18 g	12	50	<a href="#">DFK-25-0002</a>
2	20	250	0.3	0.6	37 g	20	45	<a href="#">DFK-33-0001</a>
3	10	150	0.38	0.6	37 g	20	45	<a href="#">DFK-33-0002</a>
6	4	27	0.4	-	127 g	25-2	10	<a href="#">DFK-40-0003</a>
10	2	9	1.45	-	127 g	25-2	10	<a href="#">DFK-40-0004</a>
15	1	10	1.45	2.5 x 2.5	127 g	25-2	10	<a href="#">DFK-40-0005</a>
6	4 x 1.5	20	0.2	1.5 x 1.5	163 g	29-4	10	<a href="#">DFK-48-0008</a>

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