

## Linear/Saturating Choke



## Approvals and Compliances

### Description

- Linear/saturating choke
- Flexible wire
- Low noise development by using iron powder toroids instead of conventional iron lamination cores
- Fully potted resign

### Applications

- Phase angle control circuits with thyristors, triacs or transistors
- The choke acts at its optimum when it is mounted directly at the interference originator (thyristor, triac)

### 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	5 - 45 A @ Ta 45 °C
Power Operating Frequency	50 Hz
Terminal Type	THT, Flexible wire
Weight	149 - 1423 g
Material: Housing	UL 94V-0
Sealing Compound	UL 94V-0


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](#)





### Application standards

Application standards where the product can be used

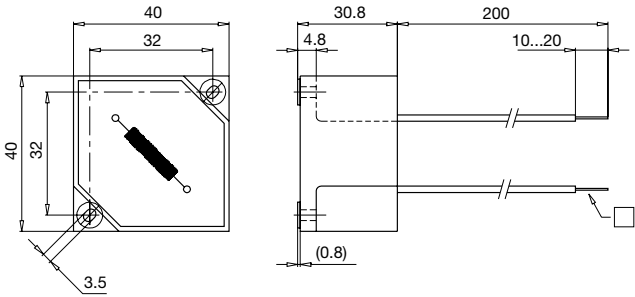
Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

### Compliances

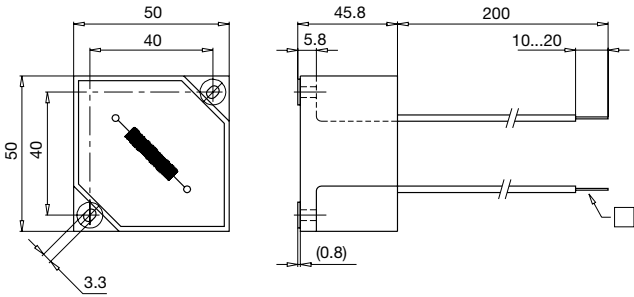
The product complies with following Guide Lines

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.
	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.

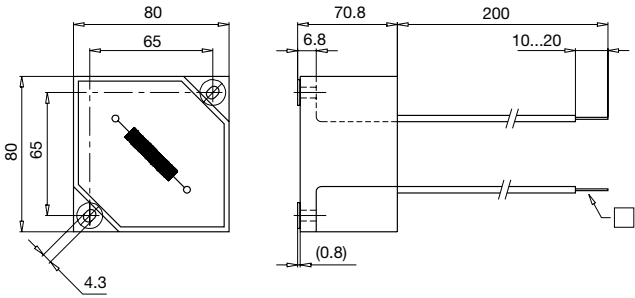
Dimension [mm]  
Case 25W



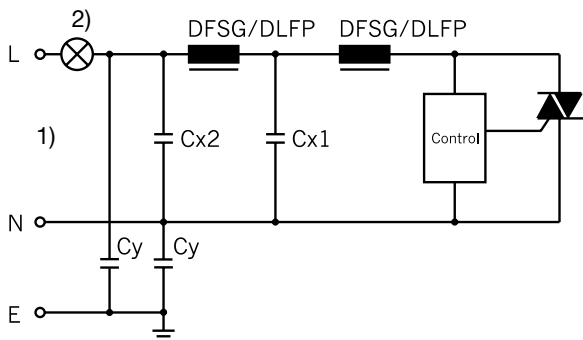
Case 47W



Case 32W

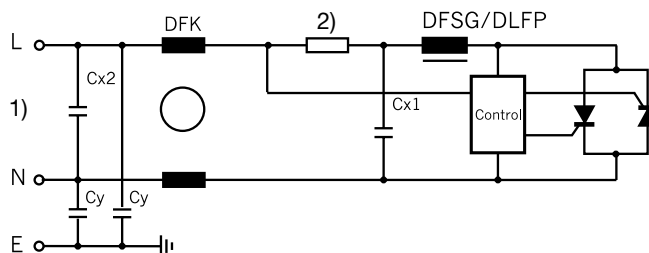


## Diagrams



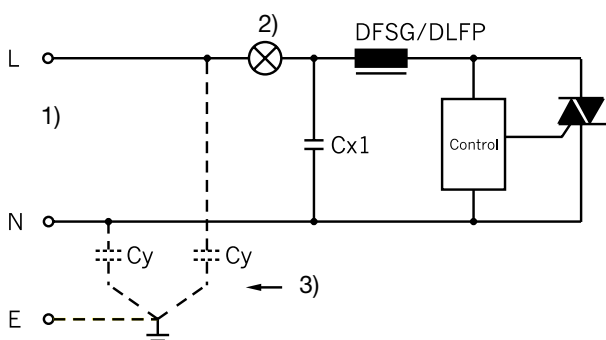
Interference suppression with resistive load, 2-phase

- 1) Line  
2) Load



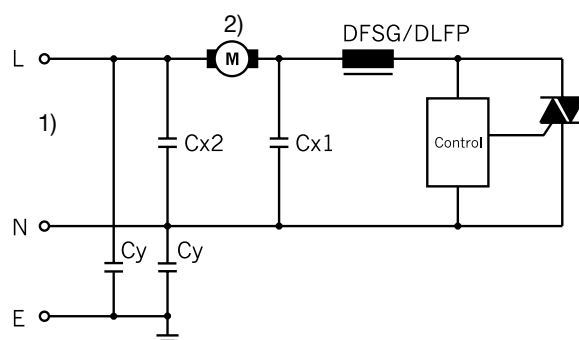
Interference suppression with resistive load, 2-stage

- DFSG: Radio interference suppression saturation choke  
DFK: Radio interference suppression choke magnetically condensated  
1) Line  
2) Load



Interference suppression with resistive load, < 10A, e.g. dimmers circuit (DFSG)

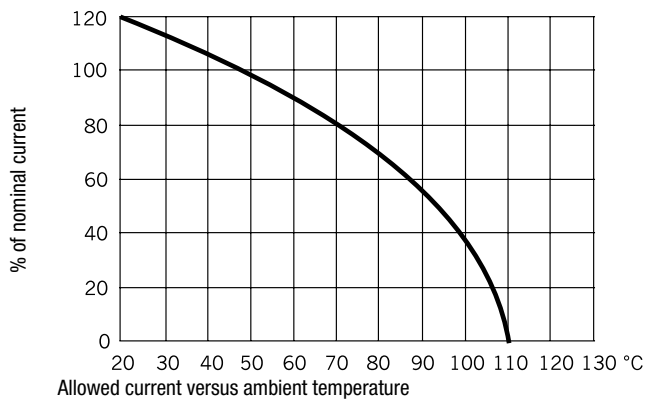
- 1) Line  
2) Load  
3) only to protection class I



Interference suppression with inductive load

- 1) Line  
2) Load

## Derating Curves



## All Variants

$I_n$ [A]	$L_n$ [mH]	Inductance drop max [%]	$R_{cu}$ [mΩ]	Tripped Power Dissipation	$f_{RES}$ [MHz]	Cx [μF]	Copper ø [mm]	Weight [g]	Housings	Packing unit [pcs.]	Order Number
5	1	60	120	3	0.8	0.047	1	149 g	25W	10	<a href="#">DLFP-0125-0501</a>
8	0.5	60	54	3.5	1.32	0.1	1.25	150 g	25W	10	<a href="#">DLFP-0125-08D5</a>
45	0.2	70	6	12	1.1	1	5	1423 g	32W	2	<a href="#">DLFP-0132-45D2</a>
12	0.5	60	38	5.5	1.16	0.1	1.7	350 g	47W	6	<a href="#">DLFP-0147-12D5</a>
16	0.3	60	25	6.4	1.69	0.22	1.8	320 g	47W	6	<a href="#">DLFP-0147-16D3</a>
25	0.15	60	10	6.3	2.5	0.47	2.36	350 g	47W	6	<a href="#">DLFP-0147-25D2</a>
35	0.05	60	5.3	6.5	3.5	1.5	1.5 x 4.5	338 g	47W	6	<a href="#">DLFP-0147-35C5</a>

Most Popular.

I <sub>n</sub> [A]	L <sub>n</sub> [mH]	Inductance drop max [%]	R <sub>cu</sub> [mΩ]	Tripped Power Dissipation	f <sub>RES</sub> [MHz]	Cx [μF]	Copper ø [mm]	Weight [g]	Housings	Packing unit [pcs.]	Order Number
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Availability for all products can be searched real-time:<https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

Inductance drop at I<sub>n</sub>