Saturating Choke



See below:
Approvals and Compliances

Description

- Saturating choke
- THT-terminals
- Based on laminated iron core
- 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	0.8 - 10 A @ Ta 45 °C
Power Operating Frequency	50/60 Hz
Terminal Type	THT, Flexible wire
Weight	14 - 86 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

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 134485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Application standards

Application standards where the product can be used

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

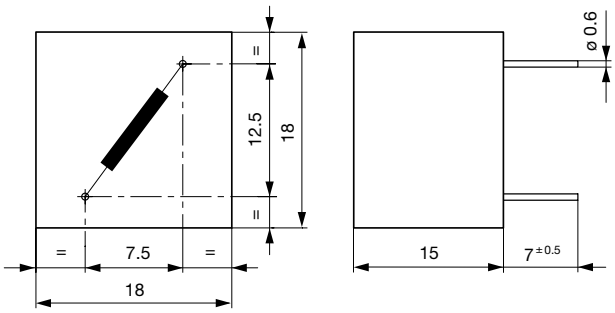
Compliances

The product complies with following Guide Lines

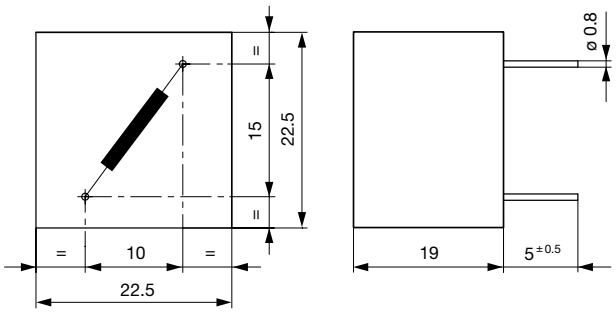
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
RoHS COMPLIANT	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	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]

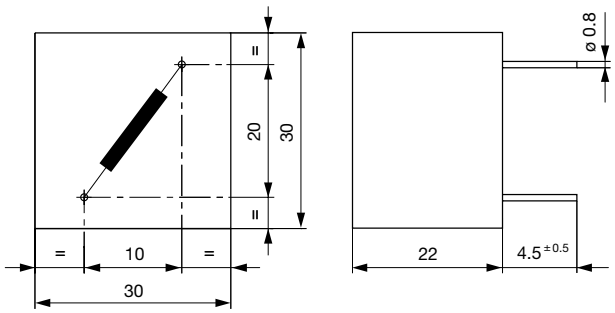
Case 00



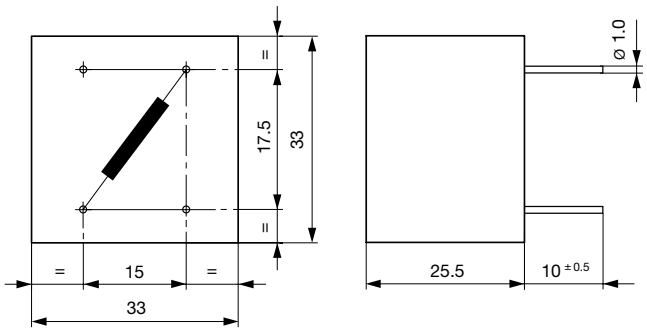
Case 08



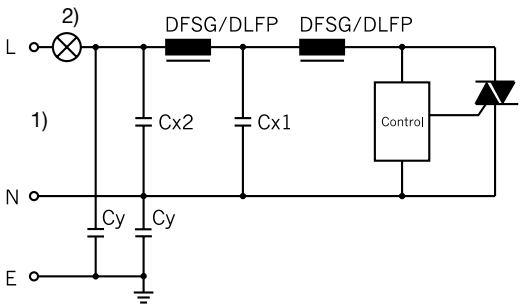
Case 17



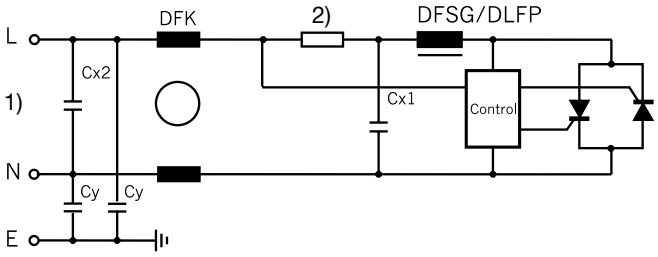
Case 21



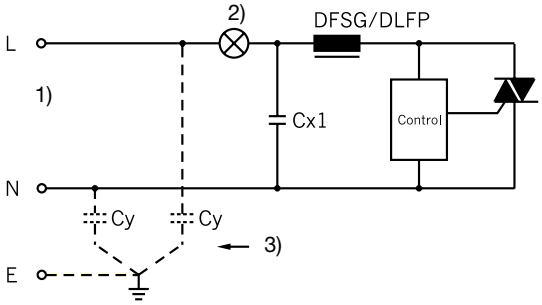
Diagrams



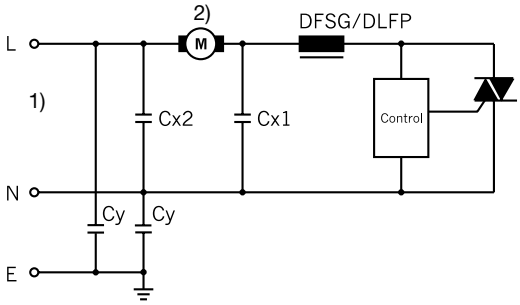
Interference suppression with resistive load, 2-phase
1) Line
2) Load



Interference suppression with resisitive load, 2-stage
DFSG: Radio interference suppression saturation choke
DFK: Radio interference suppression choke magnetically condensated
1) Line
2) Load

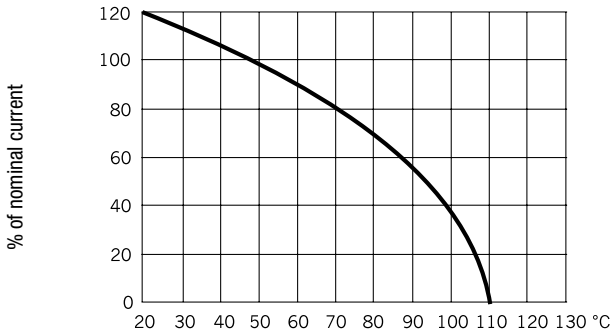


Interference suppression with resistive load, < 10A, e.g. dimmers circuit (DFSG)
1) Line
2) Load
3) only to protection class I



Interference suppression with inductive load
1) Line
2) Load

Derating Curves



Allowed current versus ambient temperature

All Variants

I_n [A]	R_{cu} [mΩ]	Weight [g]	Housings	Packing unit [pcs.]	Order Number	
0.8	1300	14 g	00	90	DFSG-20-0001	
1.5	450	14 g	00	90	DFSG-20-0002	
2	260	29 g	08	25	DFSG-25-0001	
3	100	29 g	08	25	DFSG-25-0002	▮
3	165	55 g	17	30	DFSG-30-0001	
6	60	55 g	17	30	DFSG-30-0002	▮
5	70	86 g	21	30	DFSG-33-0001	
10	30	86 g	21	30	DFSG-33-0002	▮

▮ Most Popular.

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

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The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.