Linear/Saturating Choke



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

Standards
- EN 60938

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, Approvals, CE declaration of conformity, RoHS, CHINA-RoHS, REACH, Distributor-Stock-Check, Detailed request for product

Technical Data

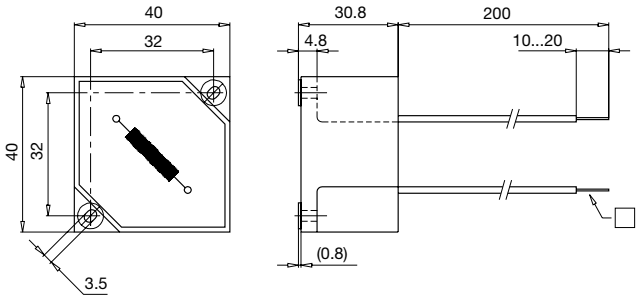
Rated voltage	up to 440 VAC
Rated Current	5 - 45 A @ Ta 45 °C
Power Operating Frequency	50 Hz
Terminal Type	THT, Flexible wire
Weight	149 - 1423 g
Material: Housing	UL 94V-0
Sealing Compound	UL 94V-0

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

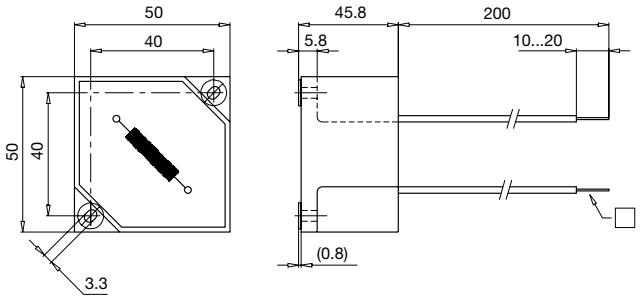
Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in General Product Information

Dimension

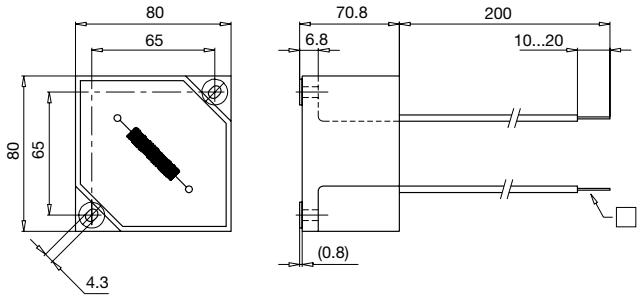
Case 25W



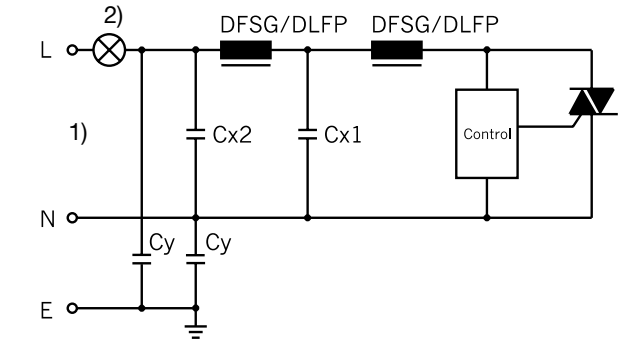
Case 47W



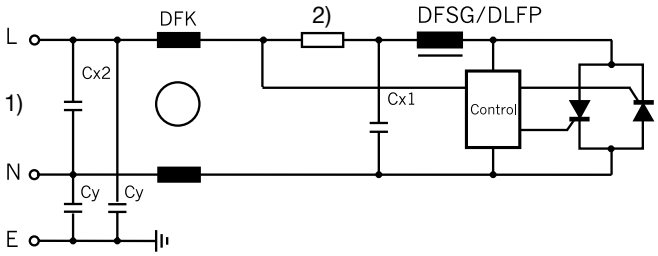
Case 32W



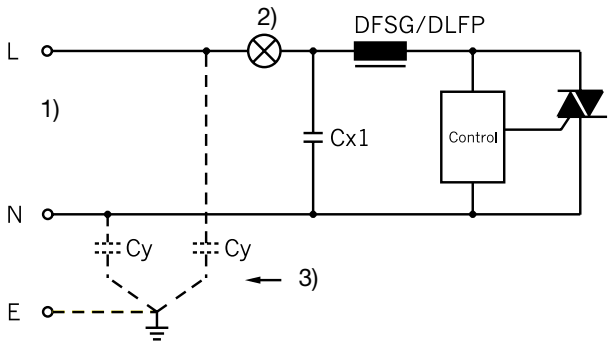
Diagrams



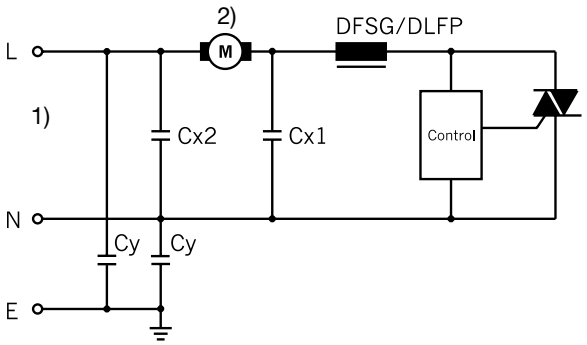
Interference suppression with resistive load, 2-phase
1) Line
2) Load



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

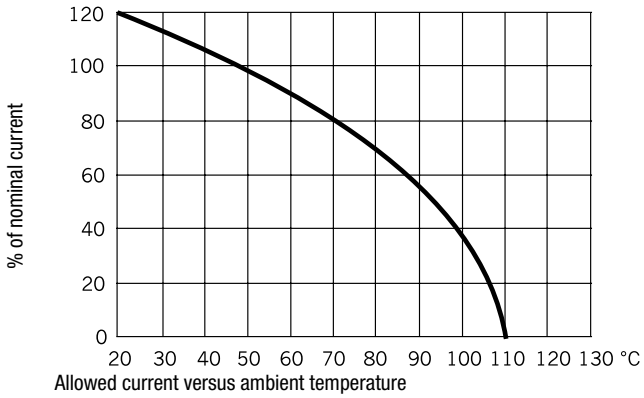


Interference suppression with resistive load, < 10A, e.g. dimmers circuit (DFSG)
1) Line
2) Load
3) only to protection class I



Interference suppression with inductive load
1) Line
2) Load

Derating Curves



Allowed current versus ambient temperature

All Variants

I_n [A]	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	DLFP-0125-0501
8	0.5	60	54	3.5	1.32	0.1	1.25	150 g	25W	10	DLFP-0125-08D5
45	0.2	70	6	12	1.1	1	5	1423 g	32W	2	DLFP-0132-45D2
12	0.5	60	38	5.5	1.16	0.1	1.7	350 g	47W	6	DLFP-0147-12D5
16	0.3	60	25	6.4	1.69	0.22	1.8	320 g	47W	6	DLFP-0147-16D3
25	0.15	60	10	6.3	2.5	0.47	2.36	350 g	47W	6	DLFP-0147-25D2
35	0.05	60	5.3	6.5	3.5	1.5	1.5 x 4.5	338 g	47W	6	DLFP-0147-35C5

Most Popular.

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

Inductance drop at In

02.06.2017

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.