## Compensated High Current Choke, 3-phase and neutral line





See below:

# **Approvals and Compliances**

#### **Description**

- Current compensated choke
- 3-phase and neutral line
- THT-terminals
- Flange for mounting onto printed circuit board

## **Unique Selling Proposition**

- Compact size and light weight
- Open design optimizes heat dissipation
- Nanocrystalline ring cores (NK)
- Customer specific pin outs available

#### **Applications**

- Frequency converter
- Charge stations
- UPS-systems

#### Weblinks

pdf data sheet, html datasheet, General Product Information, Approvals, Distributor-Stock-Check, Detailed request for product, Landing Page

#### **Technical Data**

Rated voltage	500/760 VAC/VDC
Rated Current	10 - 40 A @ Ta 40 °C
Rated inductance	0.75 - 6.5 mH, Tol30% +50%
Power Operating Frequency	0 - 400 Hz
Terminal Type	THT
Weight	100 - 165 g
Material	UL 94V-0

Test Voltage	500V: 2150VDC, 2 sec, winding to winding			
	wiriuirig			
	760 V: 3300 VDC, 2 sec, winding to			
	winding			
Climatic Category	40/100/21 acc. to IEC 60068-1			
Allowable Operation Temp.	-40 °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 13485 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
<u>IEC</u>	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

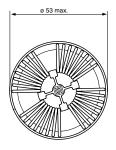
#### Compliances

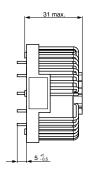
The product complies with following Guide Lines

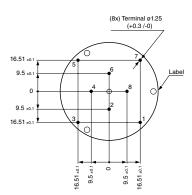
Identification	Details	Initiator	Description
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
<b>©</b>	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

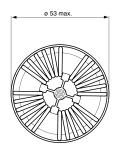
# Dimension [mm]

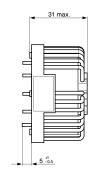
52-10

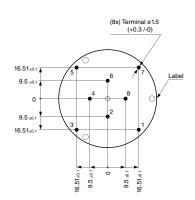


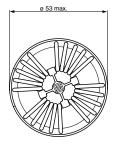


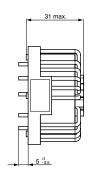


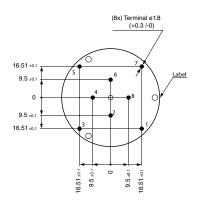


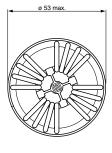


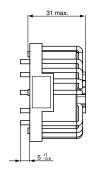


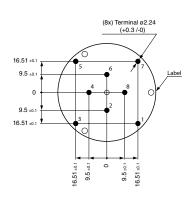


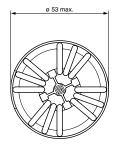


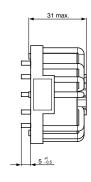


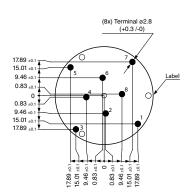


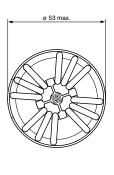


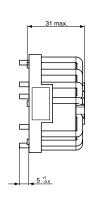


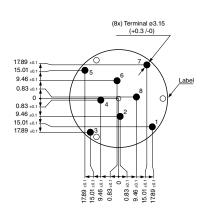


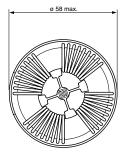


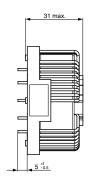


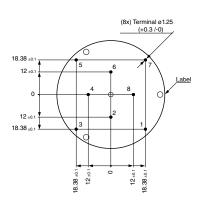


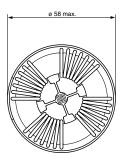


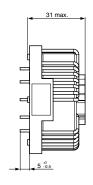


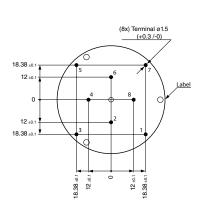


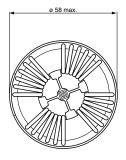


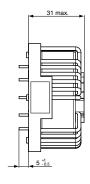


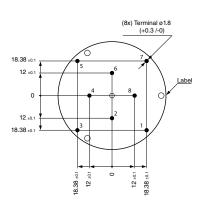


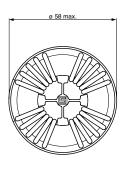


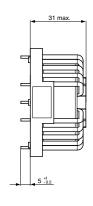


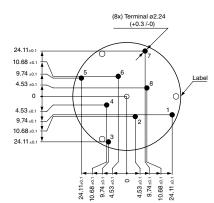


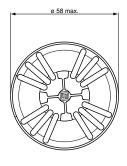


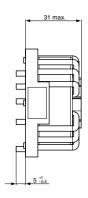


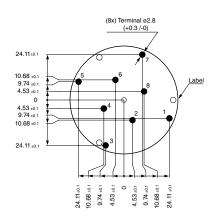


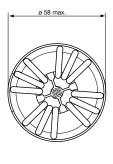


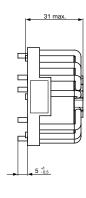


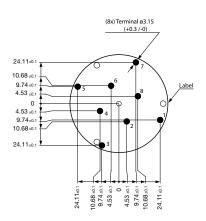




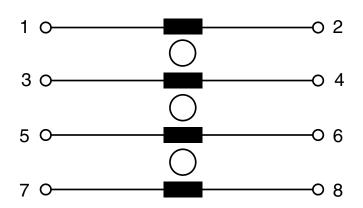






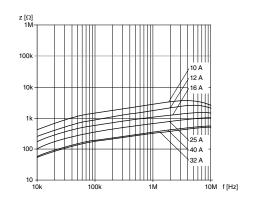


## **Diagrams**

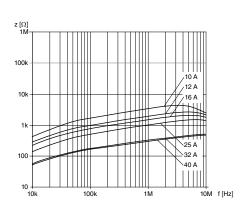


#### Impedance curves

500 VDC



760 VDC



## **All Variants**

I <sub>n</sub> [A]	U <sub>n</sub> [V]	L <sub>n</sub> [mH]	R <sub>cu</sub> [mΩ]	Tripped Power Dissipation [W]	f <sub>RES</sub> [MHz]	Copper ø [mm]	Weight [g]	Housing	Packing unit [pcs.]	Order Number	
10	500	5.5	7	2.8	3.68	1.25	100 g	52-10	20	3-108-426	
12	500	3	3.7	2.13	5.06	1.5	105 g	52-12	20	3-108-427	
16	500	2.1	2.12	2.17	6.6	1.8	100 g	52-16	20	3-108-428	
20	500	1.35	1.12	2.8	9.56	2.24	110 g	52-25	20	3-108-429	
25	500	1.35	1.12	2.8	9.56	2.24	110 g	52-25	20	3-108-430	
32	500	0.75	0.55	2.25	15.4	2.8	130 g	52-32	20	3-108-431	
40	500	0.75	0.44	2.82	13.4	3.15	140 g	52-40	20	3-108-432	
10	760	6.5	8	3.2	3.2	1.25	130 g	58-10	20	3-108-433	
12	760	4.0	4.33	2.49	4.8	1.5	130 g	58-12	20	3-108-434	
16	760	3.0	2.6	2.66	5.18	1.8	140 g	58-16	20	3-108-435	
20	760	2.0	1.4	3.5	6.6	2.24	150 g	58-25	20	3-108-436	
25	760	2.0	1.4	3.5	6.6	2.24	150 g	58-25	20	3-108-437	
32	760	0.75	0.55	2.25	15.4	2.8	155 g	58-32	20	3-108-438	
40	760	0.75	0.44	2.82	15.4	3.15	165 g	58-40	20	3-108-439	

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