

Compensated High Current Choke, 3-phase



See below:

Approvals and Compliances

Description

- Current compensated choke
- 3-phase choke
- THT-terminals
- Flange for mounting onto printed circuit board
- Other versions on request:

Unique Selling Proposition

- Compact size and light weight
- Open design for optimal cooling
- Nanocrystalline or ferrite ring cores
- Customer specific pin outs available

Applications

- Frequency converter
- Charge stations
- UPS-systems
- Switching power supplies

References

Substitute for type [DKIL-3](#)

Weblinks

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

Technical Data

Rated voltage	max 600VAC
Rated Current	10 - 50 A @ Ta 40 °C
Rated inductance	0.08 - 10.8mH, Tol. -30% +50%
Power Operating Frequency	0 - 400Hz
Terminal Type	THT
Weight	90 - 160g
Material: Housing	UL 94V-0

Test Voltage	3740VDC, 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

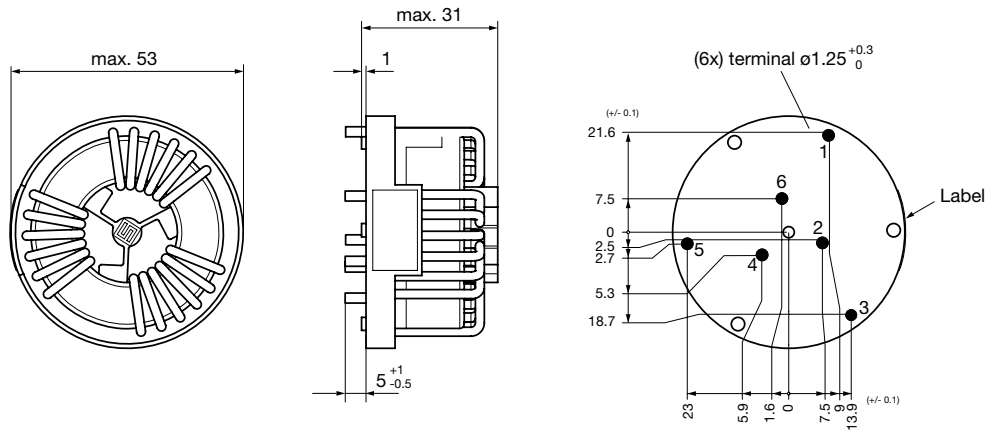
Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.

Compliances

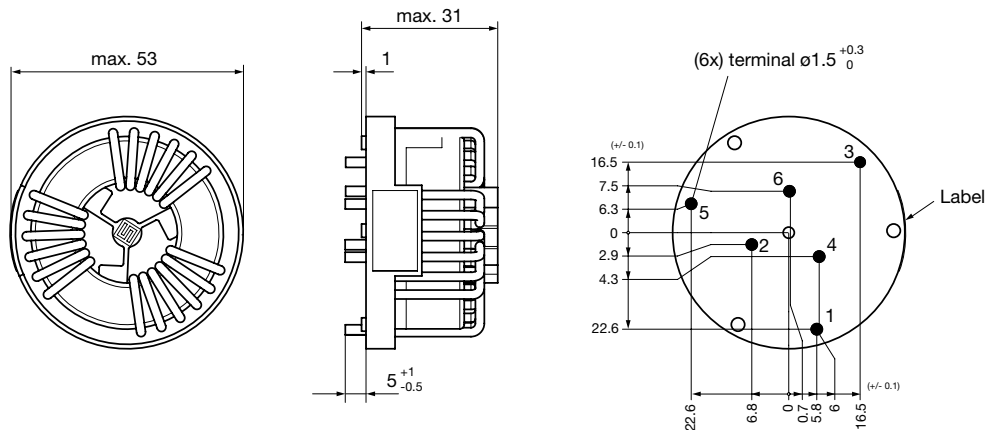
The product complies with following Guide Lines

Identification	Details	Initiator	Description
	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	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	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.

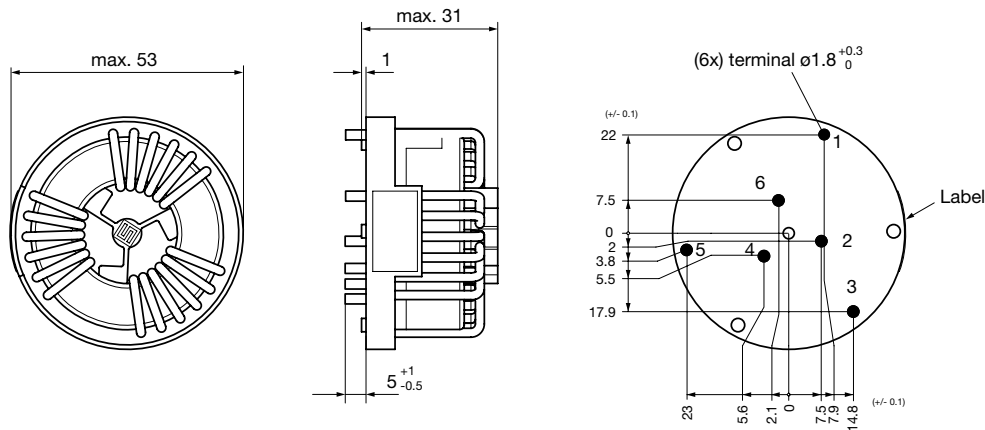
Dimension [mm]
52-10



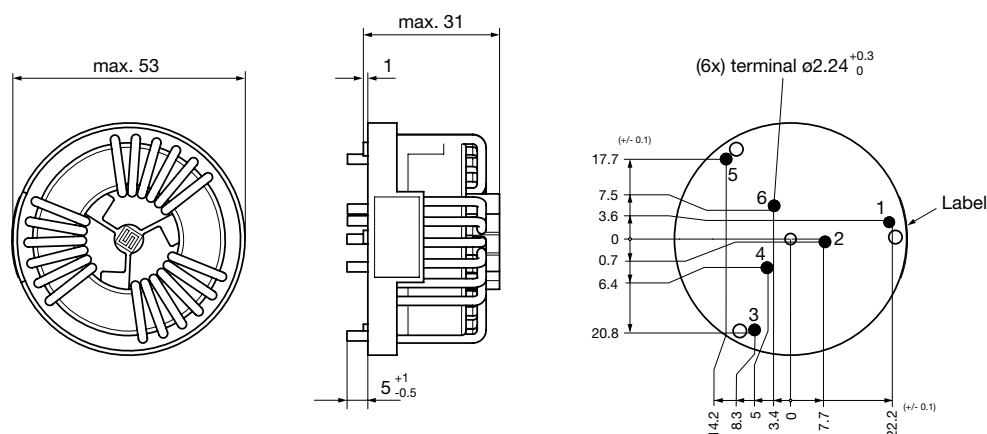
52-12



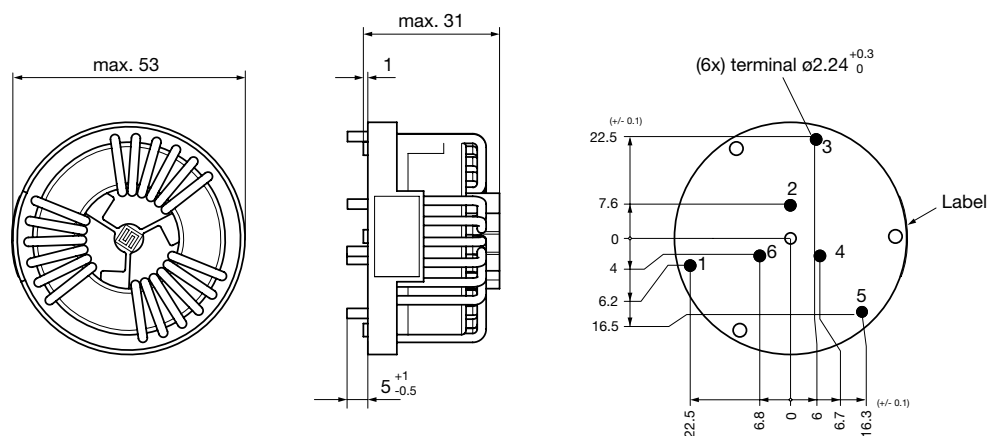
52-16



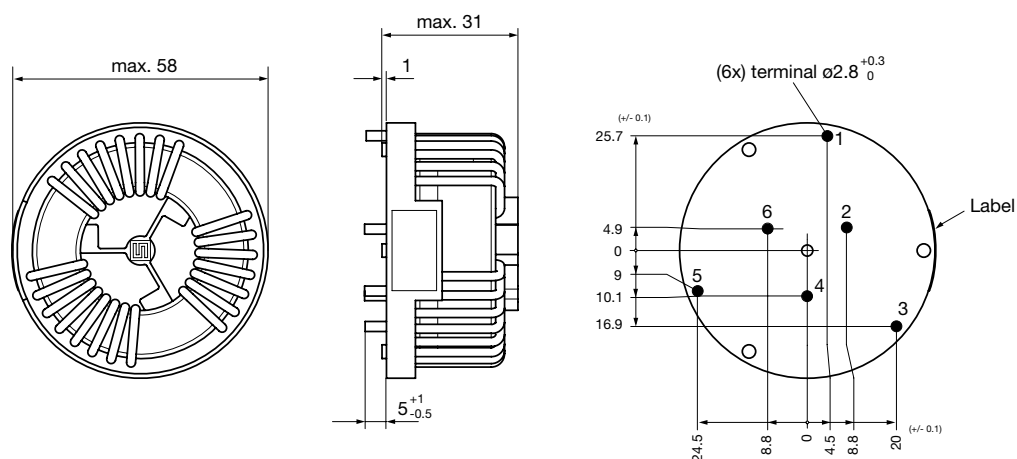
52-20



52-25



58-32



Technical drawing of the 12-pin connector showing three views:

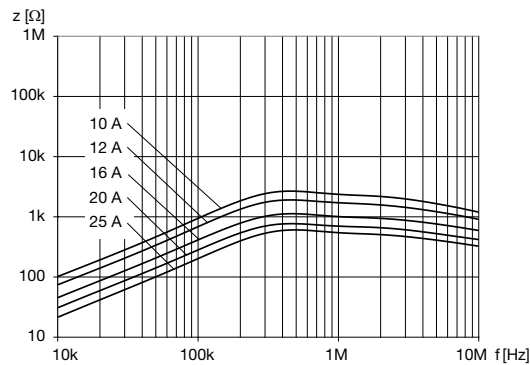
- Top View:** Shows the circular arrangement of 12 pins. The maximum diameter is labeled as **max. 58**.
- Side View:** Shows the profile of the connector. The maximum height of the pin array is labeled as **max. 31**. The pin height is labeled as **1**. The mounting tab height is labeled as **5⁺¹_{-0.5}**.
- Pin Layout View:** A detailed view of the 12 pins arranged in a circle. The pins are numbered 1 through 12. The pin diameter is labeled as **(12x) terminal $\varnothing 2.6$ ^{+0.3}₀**. The pin pitch is labeled as **(± 0.1)**. The pin positions are defined by a series of dimensions: 24.5, 23.5, 23.5, 9.3, 7.2, 2.8, 0, 3.7, 6.7, 9, 10, 19.3, 20.8, and 25.4. The pin positions are also defined by a series of dimensions: 17.3, 15, 10.4, 10.1, 9.9, 7.1, 0, 2.2, 4.9, 7.3, 25, and 25.4. The pin positions are also defined by a series of dimensions: 17.3, 15, 10.4, 10.1, 9.9, 7.1, 0, 2.2, 4.9, 7.3, 25, and 25.4. The pin positions are also defined by a series of dimensions: 17.3, 15, 10.4, 10.1, 9.9, 7.1, 0, 2.2, 4.9, 7.3, 25, and 25.4.

The diagram illustrates a three-stage interconnection network. It consists of three stages of 2x2 switches. Stage 1 has inputs 1, 3, 5 and outputs 2, 4, 6. Stage 2 has inputs 2, 4, 6 and outputs 1, 3, 5. Stage 3 has inputs 1, 3, 5 and outputs 2, 4, 6. The diagram shows a specific routing path for each input-output pair, indicated by solid lines and dashed lines.

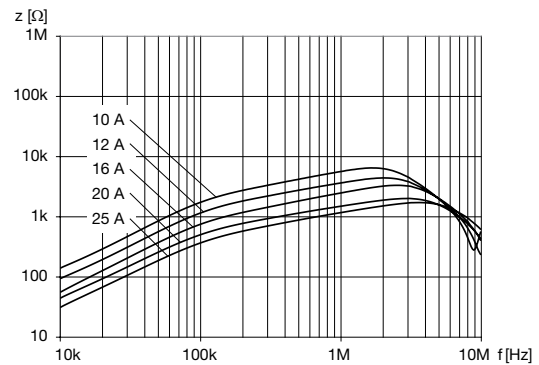
4 | **SCHURTER** | EMC Products
ELECTRONIC COMPONENTS

Impedance curves

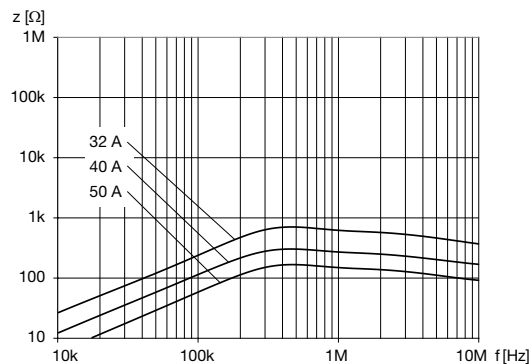
DKIH-3352-xxxx



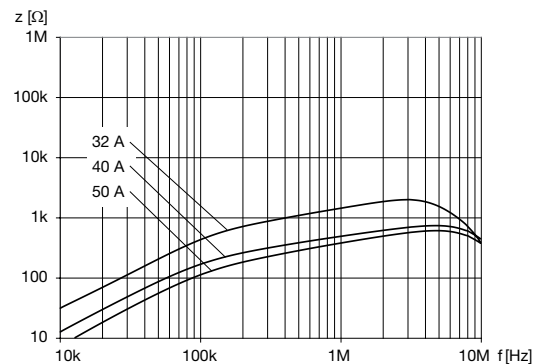
DKIH-3352-xxxx-NK



DKIH-3358-xxxx



DKIH-3358-xxxx-NK



All Variants

I_n [A]	L_n [mH]	R_{cu} [m Ω]	Tripped Power Dissipation [W]	f_{RES} [MHz]	Copper ϕ [mm]	Weight [g]	Housings	Packing unit [pcs.]	Order Number	
10	1.1	7.5	2.3	0.5	1.25	90 g	52-10	20	DKIH-3352-102J	■
10	10.8	7.5	2.3	1.5	1.25	90 g	52-10	20	DKIH-3352-1011-NK	■
12	0.75	4.5	1.9	0.5	1.5	90 g	52-12	20	DKIH-3352-12D8	■
12	7.2	4.5	1.9	2	1.5	90 g	52-12	20	DKIH-3352-120Q-NK	■
16	0.46	3	2.3	0.5	1.8	90 g	52-16	20	DKIH-3352-16D5	■
16	4.4	3	2.3	2.5	1.8	90 g	52-16	20	DKIH-3352-162N-NK	■
20	0.35	1.5	1.8	0.5	2.24	105 g	52-20	20	DKIH-3352-20D4	■
20	3.1	1.5	1.8	3	2.24	105 g	52-20	20	DKIH-3352-204L-NK	■
25	0.24	1.2	2.3	0.5	2.24	100 g	52-25	20	DKIH-3352-25D3	■
25	2.2	1.2	2.3	3.5	2.24	100 g	52-25	20	DKIH-3352-254K-NK	■
32	0.33	1.1	3.4	0.4	2.8	155 g	58-32	20	DKIH-3358-32D3	■
32	2.6	1.1	3.4	3	2.8	155 g	58-32	20	DKIH-3358-326K-NK	■
40	0.15	0.6	2.9	0.4	3.15	145 g	58-40	20	DKIH-3358-40D2	■
40	1.1	0.6	2.9	5	3.15	145 g	58-40	20	DKIH-3358-401J-NK	■
50	0.08	0.4	3	0.4	2 x 2.5	160 g	58-50	20	DKIH-3358-50C8	■
50	0.7	0.4	3	5	2 x 2.5	160 g	58-50	20	DKIH-3358-50D7-NK	■

■ Most Popular.

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

Accessories

Description



DKIH-EVB
Evaluation Board for Dkih-1 and Dkih-3