

Compensated High Current Choke, 1-phase



See below:

#### Approvals and Compliances

#### Description

- Current compensated choke
- 1-phase choke
- THT-terminals
- Flange for mounting onto printed circuit board
- Fully potted resin

#### Applications

- Placed in front of frequency converter
- Stepper motor drives
- UPS-systems
- Inverter

#### References

We recommend for new applications [DKIH-1](#)  
Last order date: 15.12.2018

#### Weblinks

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

#### Technical Data

|                           |                            |                           |                                             |
|---------------------------|----------------------------|---------------------------|---------------------------------------------|
| Rated voltage             | up to 540VAC               | Test Voltage              | 2.5kV, 50Hz, 2 sec, winding to winding      |
|                           | up to 760VDC               | Isolation Voltage         | 2.5kV eff., 50Hz, 2 sec, winding to ambient |
| Rated Current             | 10 - 20A @ Ta 40 °C        | Climatic Category         | 25/100/21 acc. to IEC 60068-1               |
| Rated inductance          | 1.1 - 12mH, Tol. -30% +50% | Allowable Operation Temp. | -25 °C to 100 °C                            |
| Power Operating Frequency | 50 - 400Hz                 |                           |                                             |
| Terminal Type             | THT                        |                           |                                             |
| Weight                    | 145 - 525g                 |                           |                                             |
| Material: Housing         | UL 94V-0                   |                           |                                             |
| Sealing Compound          | UL 94V-0                   |                           |                                             |

#### 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.

#### Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: DKIL

| Approval Logo                                                                       | Certificates                 | Certification Body | Description     |
|-------------------------------------------------------------------------------------|------------------------------|--------------------|-----------------|
|  | <a href="#">UL Approvals</a> | UL                 | UL File Number: |

#### 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

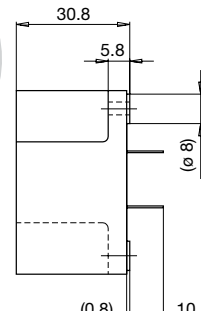
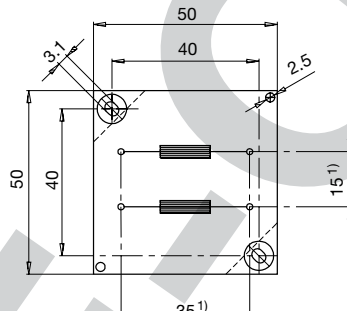
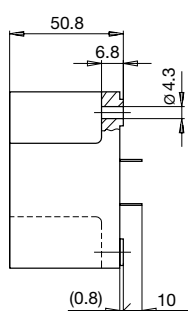
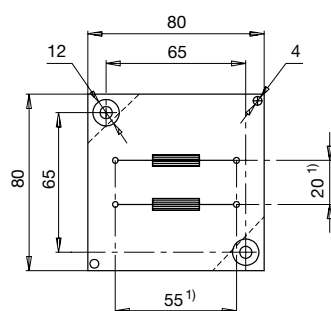
The product complies with following Guide Lines

| Identification | Details                      | Initiator   | Description                                                                                                                                                                                           |
|----------------|------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CE             | 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           | RoHS                         | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863                                                                                                                                                    |
| China RoHS     | 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 31-2P

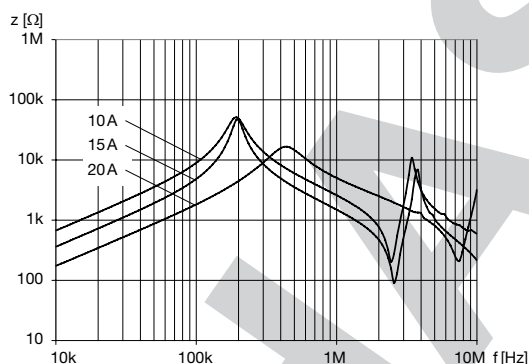
Case 46-2P



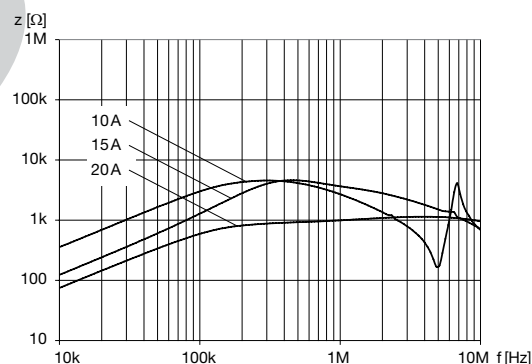
1) Spacing given at pin base

## Impedance curves

DKIL-0231-xxxx



DKIL-0246-xxxx



## All Variants

| $I_n$ [A] | $L_n$ [mH] | $R_{cu}$ [mΩ] | Tripped Power Dissipation [W] | $f_{RES}$ [MHz] | Copper $\phi$ [mm] | Weight [g] | Housings | Packing unit [pcs.] | Order Number   |
|-----------|------------|---------------|-------------------------------|-----------------|--------------------|------------|----------|---------------------|----------------|
| 10        | 12         | 40            | 8                             | 0.15            | 1.25               | 477 g      | 31-2P    | 2                   | DKIL-0231-1012 |
| 15        | 5          | 17            | 7.6                           | 0.33            | 1.6                | 525 g      | 31-2P    | 2                   | DKIL-0231-1505 |
| 20        | 3          | 10            | 8                             | 0.55            | 1.8                | 506 g      | 31-2P    | 2                   | DKIL-0231-2003 |
| 10        | 5          | 18            | 3.6                           | 0.35            | 1.25               | 145 g      | 46-2P    | 10                  | DKIL-0246-1005 |
| 15        | 2          | 8             | 3.6                           | 0.6             | 1.6                | 145 g      | 46-2P    | 10                  | DKIL-0246-1502 |
| 20        | 1.1        | 6             | 4.8                           | 2.5             | 1.8                | 145 g      | 46-2P    | 10                  | DKIL-0246-2001 |

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

12.05.2020

# Mouser Electronics

Authorized Distributor

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[DKIL-0231-1012](#) [DKIL-0231-1505](#) [DKIL-0231-2003](#) [DKIL-0246-1005](#) [DKIL-0246-1502](#) [DKIL-0246-2001](#) [DKLP-](#)  
[0229-0430](#) [DKLP-0229-0614](#) [DKLP-0231-0460](#) [DKLP-0231-0540](#) [DKLP-0231-0720](#) [DKLP-0233-2012](#)