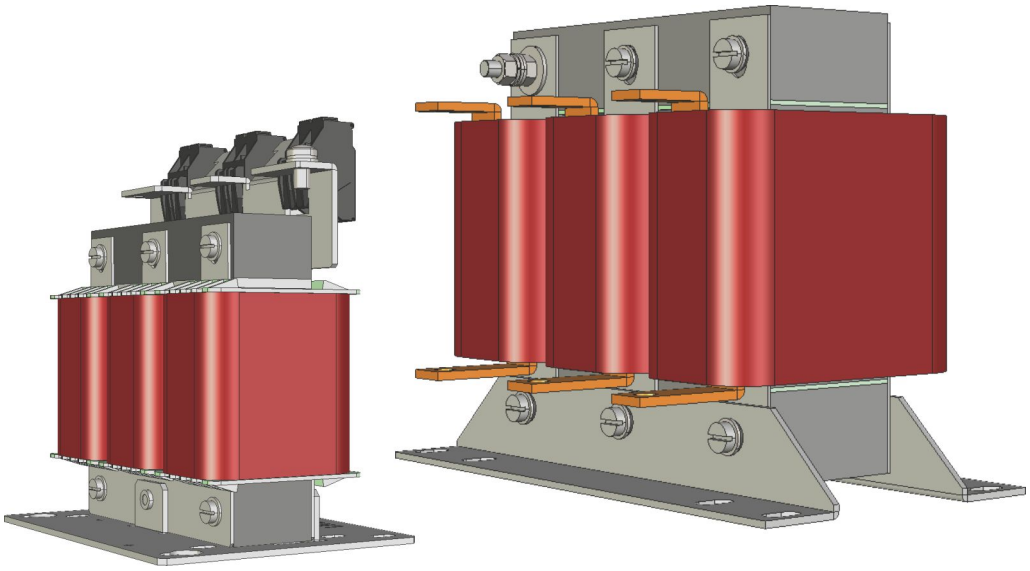
SIEB & MEYER

Mains Chokes 130158xx

Technical Information

Overview of the mains chokes used in drive applications



D-00000217.5
2024-10-29

Trademarks

All product, font and company names mentioned in this manual may be trademarks or registered trademarks of their respective companies.

SIEB & MEYER Worldwide

For questions regarding our products and technical problems please contact us.

SIEB & MEYER AG
Auf dem Schmaarkamp 21
21339 Lueneburg
Germany

Phone: +49 4131 203 0
Fax: +49 4131 203 2000
info@sieb-meyer.de
http://www.sieb-meyer.com

SIEB & MEYER Shenzhen Trading Co. Ltd.
Room A208 2/F,
Internet Innovation and Creation Services Base Building (2),
No.126, Wanxia road, Shekou, Nanshan district,
Shenzhen City, 518067
P.R. China

Phone: +86 755 2681 1417 / +86 755 2681 2487
Fax: +86 755 2681 2967
info@sieb-meyer.cn
http://www.sieb-meyer.cn

SIEB & MEYER Asia Co. Ltd.
5 Fl, No. 578, Sec. 1
Min-Sheng N. Road
Kwei-Shan Hsiang
Guishan Dist., Taoyuan City 33393
Taiwan

Phone: +886 3 311 5560
Fax: +886 3 322 1224
info@sieb-meyer.tw

1 General Information and Safety Advice

1.1 Protective Measures During Operation

⚠ DANGER

Risk on injury due to high voltages and high temperatures

The devices are neither equipped with thermal nor electrical protection against contact. When touching bare, i.e. non-insulated parts, persons may be injured seriously by electric shock. Touching wires of resistors may cause burns.

The module may become very hot during operation. Do not touch the module after it has been switched off. When installing the module in a housing, ensure to use a housing with high air permeability and forced air circulation (fan).

→ Never touch bare, i.e. noninsulated parts during the operation of the system!

→ Wait at least 30 minutes after you have switched off the module before you touch it.

1.2 Mounting

Mounting position: horizontal or vertical

⚠ CAUTION

Overheating of components

Consider the risk of burn by touching the components.

→ Never touch overheated components and take care of correct mounting of the modules.

2 Single-phase Mains Chokes

2.1 Mains Choke 13015833 (6 A)

2.1.1 Technical Data

Article number	**13015833**
Type	1-phase mains choke
Rated current	6 A
Power loss	6.8 W
Inductance	4.88 mH ±10 %
Winding resistance	375 mΩ
Rated voltage	230 V_{AC}
Mains frequency	50 to 60 Hz
Voltage drop	9.2 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	2500 V_{AC} (2 s)
Insulation class	B
IP Code	IP00
Protection class (prepared)	I
Weight	0.6 kg
Connection method	Phase: screw terminal, 2.5 mm² (1 to 1.2 Nm) PE: tab connector, 6.3 x 0.8 mm
Mounting method	Base plate
Fastening screws	M3
Certification	CE, cURus
Standards	EN 61558-1 +AC+A1, EN 61558-2-20, UL 5085-1-2, CSA 22.2 No. 6.6 EAC, SJ/T 11363-2006 (China RoHS), RoHS 2011/65/EU, RoHS 2015/863/EU

2.1.2 Dimensions

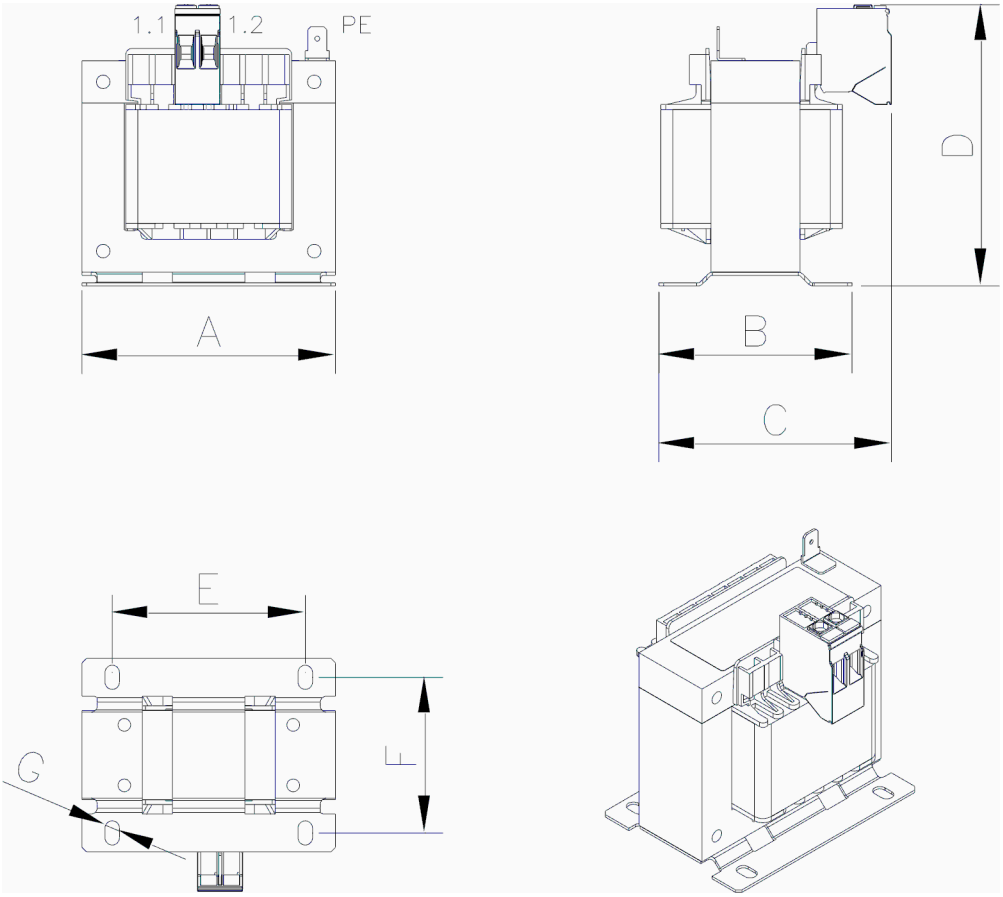


Fig. 1: Dimensions 13015833

Measurement	A	B	C	D	E	F	G
Millimeters [mm]	60	50	66	66	44	39	⌀ 3.5

2.2 Mains Choke 13015834 (10 A)

2.2.1 Technical Data

Article number	13015834
Type	1-phase mains choke
Rated current	10 A
Power loss	7.8 W
Inductance	2.93 mH ±10 %
Winding resistance	73 mΩ
Rated voltage	230 V_{AC}
Mains frequency	50 to 60 Hz
Voltage drop	9.2 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	2500 V_{AC} (2 s)
Insulation class	B
IP Code	IP00
Protection class (prepared)	I
Weight	1.3 kg
Connection method	Phase: screw terminal, 4 mm² (0.5 to 1 Nm) PE: tab connector, 6.3 x 0.8 mm
Mounting method	Base plate
Fastening screws	M4
Certification	CE, cURus
Standards	EN 61558-1 +AC+A1, EN 61558-2-20, UL 5085-1-2, CSA 22.2 No. 6.6 EAC, SJ/T 11363-2006 (China RoHS), RoHS 2011/65/EU, RoHS 2015/863/EU

2.2.2 Dimensions

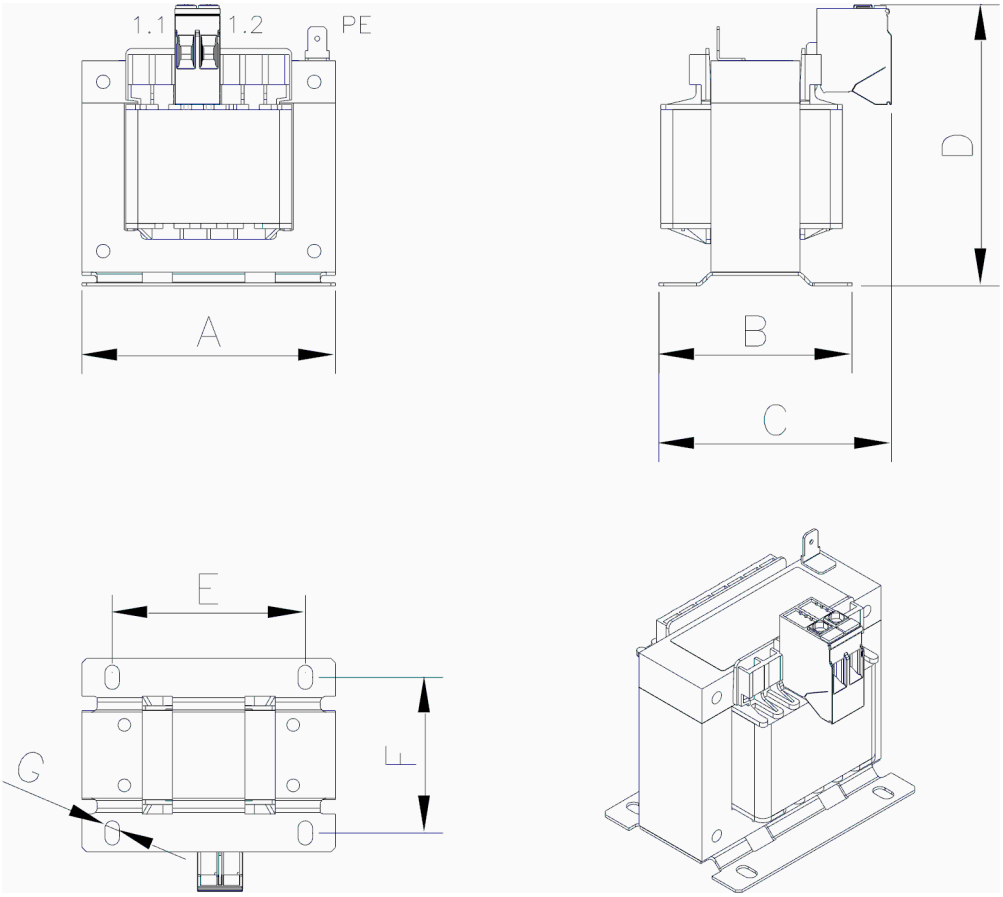


Fig. 2: Dimensions 13015834

Measurement	A	B	C	D	E	F	G
Millimeters [mm]	84	64	78	95	64	51.5	⌀ 4.8

2.3 Mains Choke 13015835 (16 A)

2.3.1 Technical Data

Article number	13015835
Type	1-phase mains choke
Rated current	16 A
Power loss	11.9 W
Inductance	1.83 mH ±10 %
Winding resistance	43 mΩ
Rated voltage	230 V_{AC}
Mains frequency	50 to 60 Hz
Voltage drop	9.2 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	2500 V_{AC} (2 s)
Insulation class	B
IP Code	IP00
Protection class (prepared)	I
Weight	1.4 kg
Connection method	Phase: screw terminal, 4 mm² (0.5 to 1 Nm) PE: tab connector, 6.3 x 0.8 mm
Mounting method	Base plate
Fastening screws	M4
Certification	CE, cURus
Standards	EN 61558-1 +AC+A1, EN 61558-2-20, UL 5085-1-2, CSA 22.2 No. 6.6 EAC, SJ/T 11363-2006 (China RoHS), RoHS 2011/65/EU, RoHS 2015/863/EU

2.3.2 Dimensions

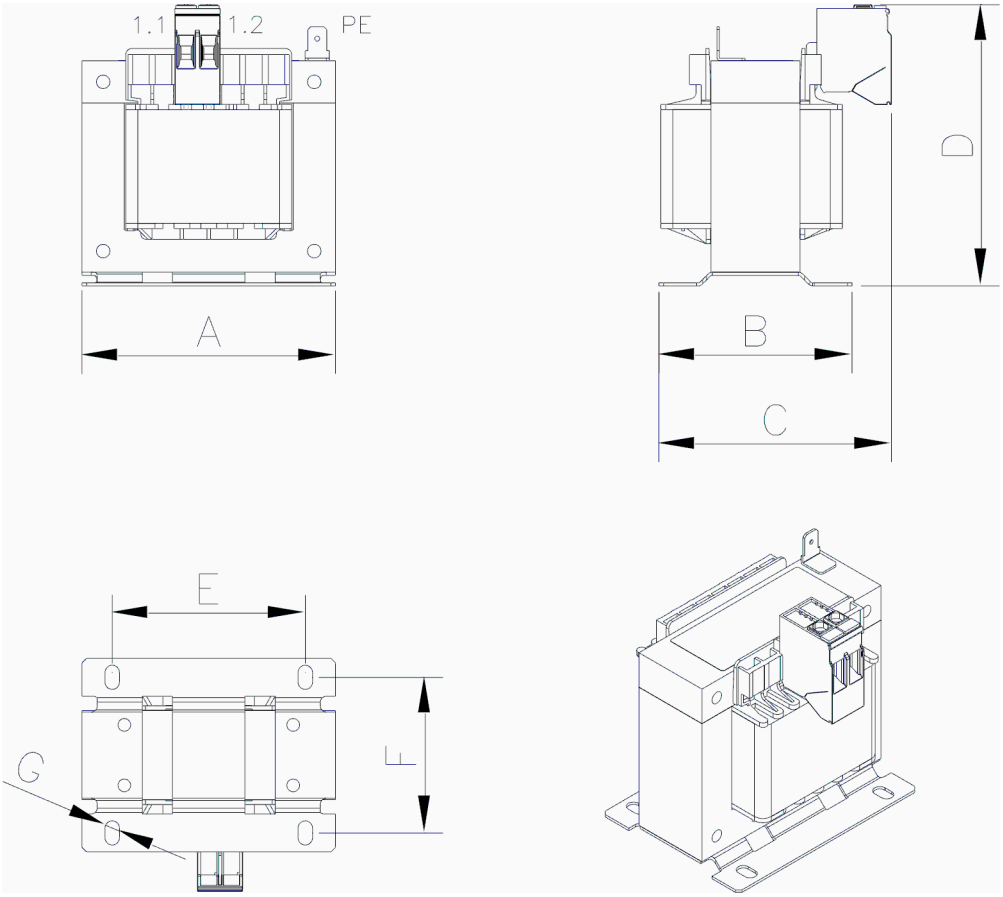


Fig. 3: Dimensions 13015835

Measurement	A	B	C	D	E	F	G
Millimeters [mm]	84	64	78	95	64	51.5	⌀ 4.8

2.4 Mains Choke 13015836 (20 A)

2.4.1 Technical Data

Article number	13015836
Type	1-phase mains choke
Rated current	20 A
Power loss	14 W
Inductance	1.47 mH ±10 %
Winding resistance	34 mΩ
Rated voltage	230 V_{AC}
Mains frequency	50 to 60 Hz
Voltage drop	9.2 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	2500 V_{AC} (2 s)
Insulation class	B
IP code	IP00
Protection class (prepared)	I
Weight	1.4 kg
Connection method	Phase: screw terminal, 10 mm² (1.2 to 2 Nm) PE: tab connector, 6.3 x 0.8 mm
Mounting method	Base plate
Fastening screws	M4
Certification	CE, cURus
Standards	EN 61558-1 +AC+A1, EN 61558-2-20, UL 5085-1-2, CSA 22.2 No. 6.6 EAC, SJ/T 11363-2006 (China RoHS), RoHS 2011/65/EU, RoHS 2015/863/EU

2.4.2 Dimensions

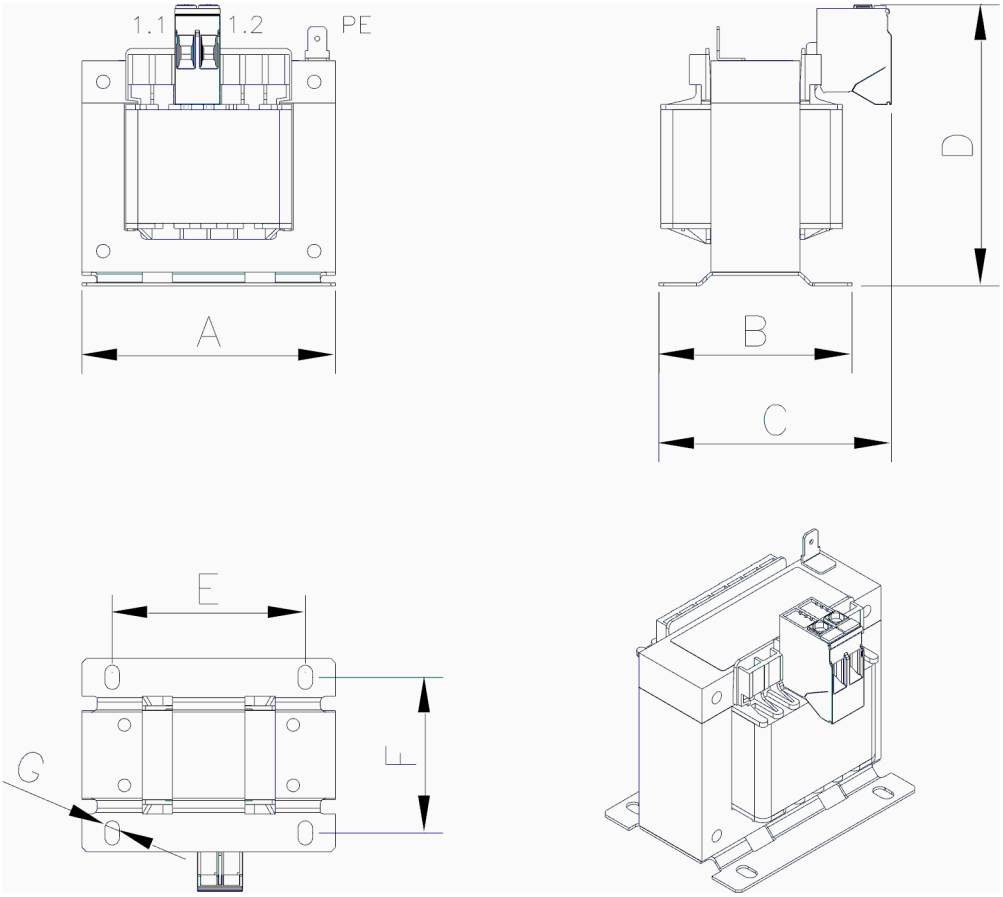


Fig. 4: Dimensions 13015836

Measurement	A	B	C	D	E	F	G
Millimeters [mm]	84	64	87	98	64	51.5	⌀ 4.8

3 Three-phase Mains Chokes

3.1 Mains Choke 13015806 (8 A)

3.1.1 Technical Data

Article number	13015806
Type	3-phase mains choke
Rated current	8 A
Power loss[1]	100 W
Inductance	2.75 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	F
IP code	IP00
Protection class (prepared)	I
Weight	1 kg
Connection method	Phases: screw terminals, 4 mm² PE: drill hole for screw M4
Mounting method	Mounting rail
Fastening screws	M4
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.1.2 Dimensions

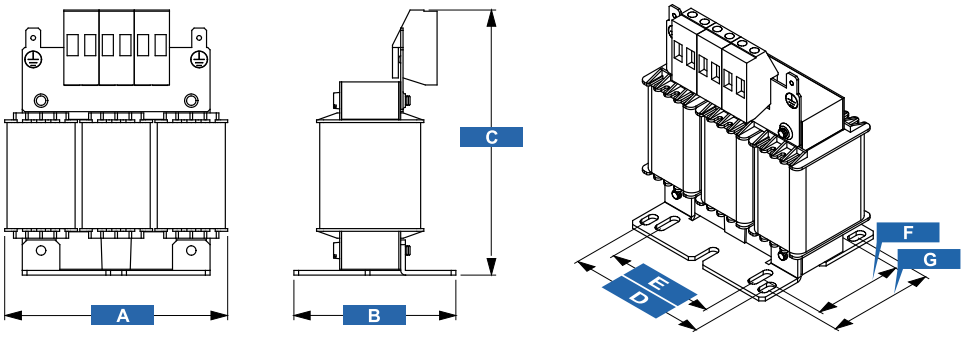


Fig. 5: Dimensions 13015806

Measurement	A	B	C	D	E	F	G
Millimeters [mm]	80	69	117	71	56	47	54
Inch [in]	3.15	2.72	4.61	2.8	2.2	1.85	2.13

3.2 Mains Choke 13015801 (16 A)

3.2.1 Technical Data

Article number	13015801
Type	3-phase mains choke
Rated current	16 A
Power loss[1]	50 W
Inductance	1.38 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	F
IP Code	IP00
Protection class (prepared)	I
Weight	2.6 kg
Connection method	Connecting terminals
Max. conductor cross section	4 mm²
Mounting method	Mounting rail
Fastening screws	M4
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.2.2 Dimensions

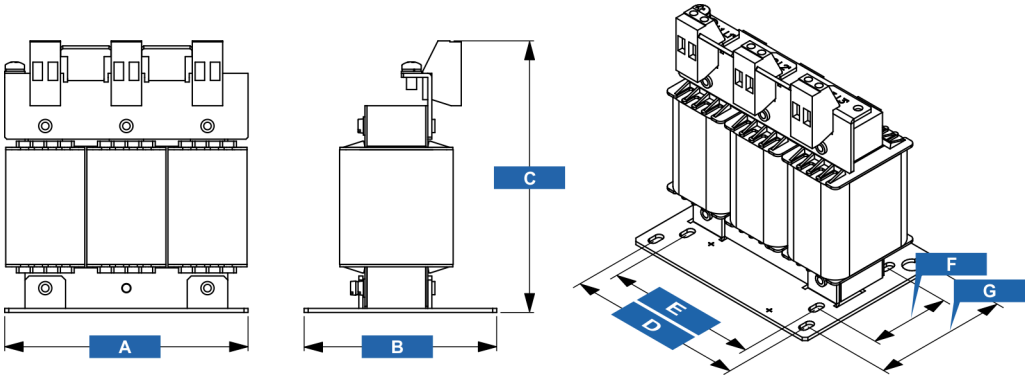


Fig. 6: Dimensions 13015801

Measurement	A	B	C	D	E	F	G
Millimeters [mm]	120	95	135	105	90	49	80
Inch [in]	4.72	3.74	5.31	4.13	3.54	1.93	3.15

3.3 Mains Choke 13015816 (20 A)

3.3.1 Technical Data

Article number	13015816
Type	3-phase mains choke
Rated current	20 A
Power loss[1]	50 W
Inductance	1.1 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	F
IP code	IP00
Protection class (prepared)	I
Weight	3.7 kg
Connection method	Phases: screw terminal, 4 mm² PE: drill hole for screw M5
Mounting method	Mounting rail
Fastening screws	M5
Certification	UL 5085-1/-2, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.3.2 Dimensions

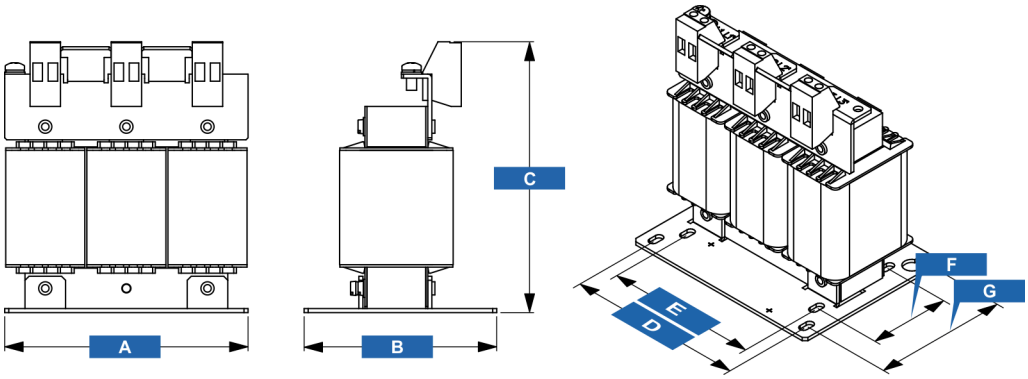


Fig. 7: Dimensions 13015801

Measurement	A	B	C	D	E	F	G
Millimeters [mm]	155	95	162	135	113	50	80
Inch [in]	6.1	3.74	6.38	5.31	4.45	1.97	3.15

3.4 Mains Choke 13015802 (25 A)

3.4.1 Technical Data

Article number	13015802
Type	3-phase mains choke
Rated current	25 A
Power loss[1]	55 W
Inductance	0.88 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	F
IP Code	IP00
Protection class (prepared)	I
Weight	4 kg
Connection method	Connecting terminals
Max. conductor cross section	10 mm²
Mounting method	Mounting rail
Fastening screws	M5
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.4.2 Dimensions

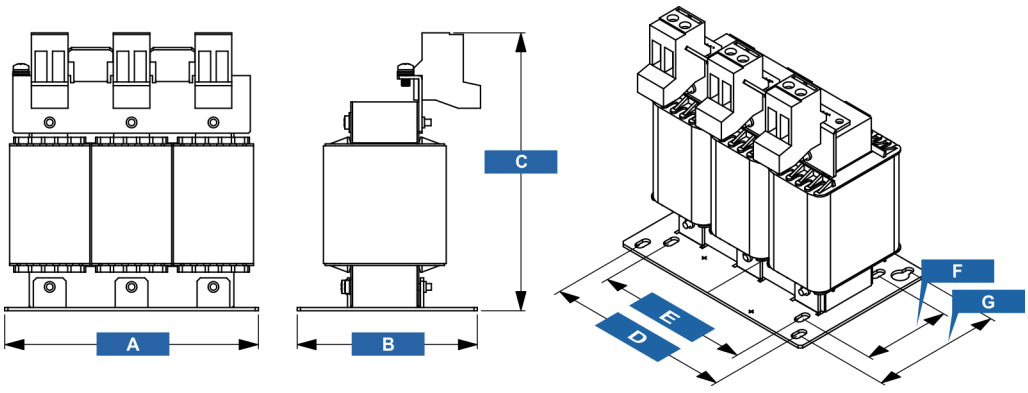


Fig. 8: Dimensions 13015802

Measurement	A	B	C	D	E	F	G
Millimeters [mm]	155	95	166	135	113	50	80
Inch [in]	6.1	3.74	6.54	5.31	4.45	1.97	3.15

3.5 Mains Choke 13015803 (35 A)

3.5.1 Technical Data

Article number	13015803
Type	3-phase mains choke
Rated current	35 A
Power loss[1]	80 W
Inductance	0.63 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	F
IP Code	IP00
Protection class (prepared)	I
Weight	5.8 kg
Connection method	Connecting terminals
Max. conductor cross section	10 mm²
Mounting method	Mounting rail
Fastening screws	M5
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.5.2 Dimensions

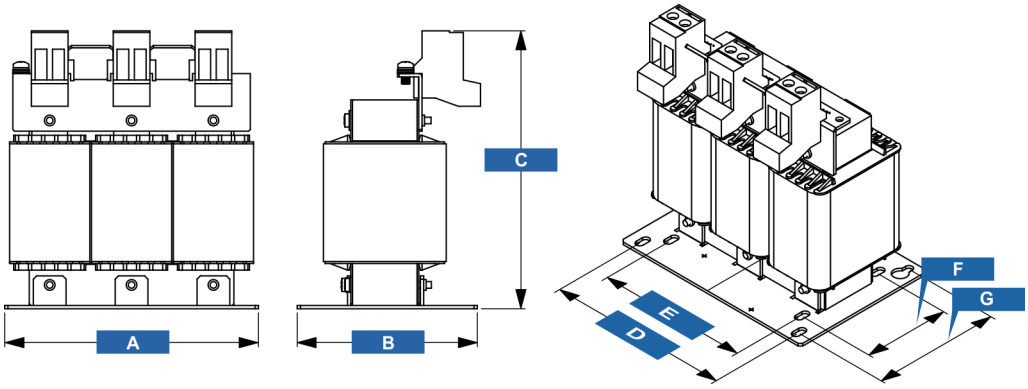


Fig. 9: Dimensions 13015803

Measurement	A	B	C	D	E	F	G
Millimeters [mm]	155	110	167	135	113	65	95
Inch [in]	6.1	4.33	6.57	5.31	4.45	2.56	3.74

3.6 Mains Choke 13015804 (40 A)

3.6.1 Technical Data

Article number	13015804
Type	3-phase mains choke
Rated current	40 A
Power loss[1]	80 W
Inductance	0.55 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	F
IP Code	IP00
Protection class (prepared)	I
Weight	6.4 kg
Connection method	Connecting terminals
Max. conductor cross section	10 mm²
Mounting method	Mounting rail
Fastening screws	M5
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.6.2 Dimensions

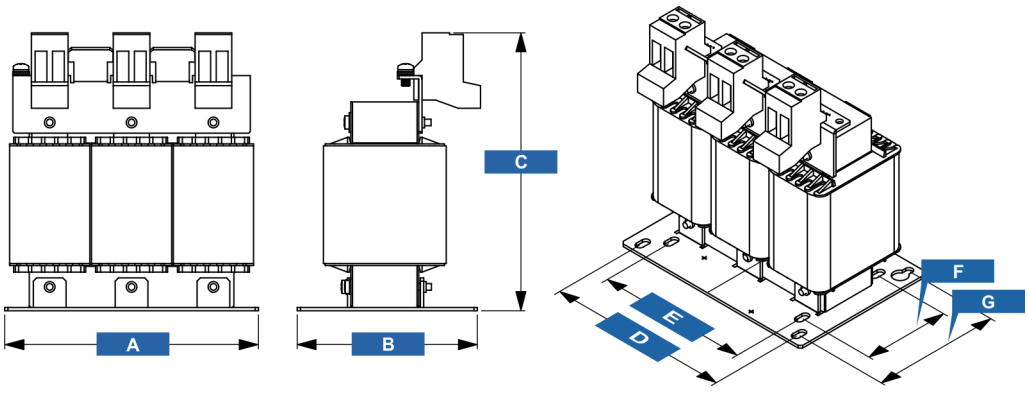


Fig. 10: Dimensions 13015804

Measurement	A	B	C	D	E	F	G
Millimeters [mm]	185	102	195	136	90	83	70
Inch [in]	7.28	4.02	7.68	5.35	3.54	3.27	2.76

3.7 Mains Choke 13015805 (50 A)

3.7.1 Technical Data

Article number	13015805
Type	3-phase mains choke
Rated current	50 A
Power loss[1]	100 W
Inductance	0.44 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	F
IP Code	IP00
Protection class (prepared)	I
Weight	6.9 kg
Connection method	Connecting terminals
Max. conductor cross section	16 mm²
Mounting method	Mounting rail
Fastening screws	M6
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.7.2 Dimensions

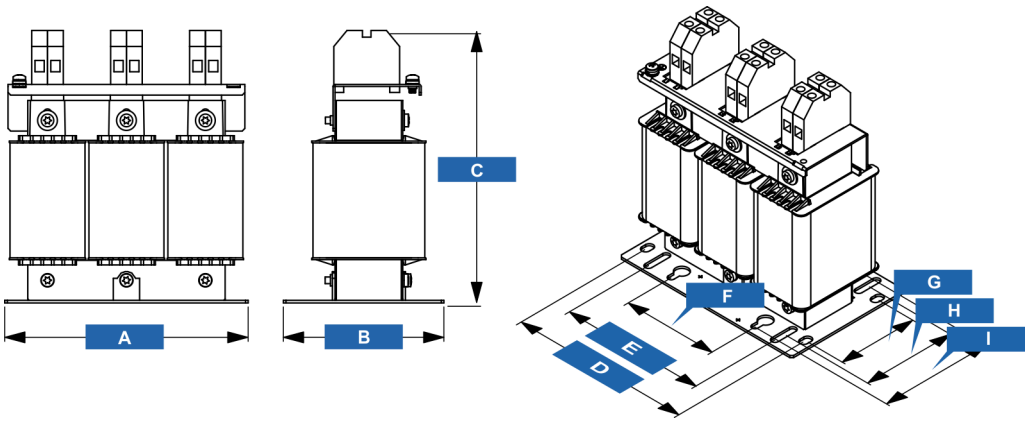


Fig. 11: Dimensions 13015805

Measurement	A	B	C	D	E	F	G	H	I
Millimeters [mm]	185	102	210	170	136	90	57	70	83
Inch [in]	7.28	4.02	8.27	6.69	5.35	3.54	2.24	2.76	3.27

3.8 Mains Choke 13015808 (80 A)

3.8.1 Technical Data

Article number	13015808
Type	3-phase mains choke
Rated current	80 A
Power loss[1]	135 W
Inductance	0.27 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	F
IP Code	IP00
Protection class (prepared)	I
Weight	10.5 kg
Connection method	Connecting terminals
Max. conductor cross section	35 mm²
Mounting method	Mounting rail
Fastening screws	M6
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.8.2 Dimensions

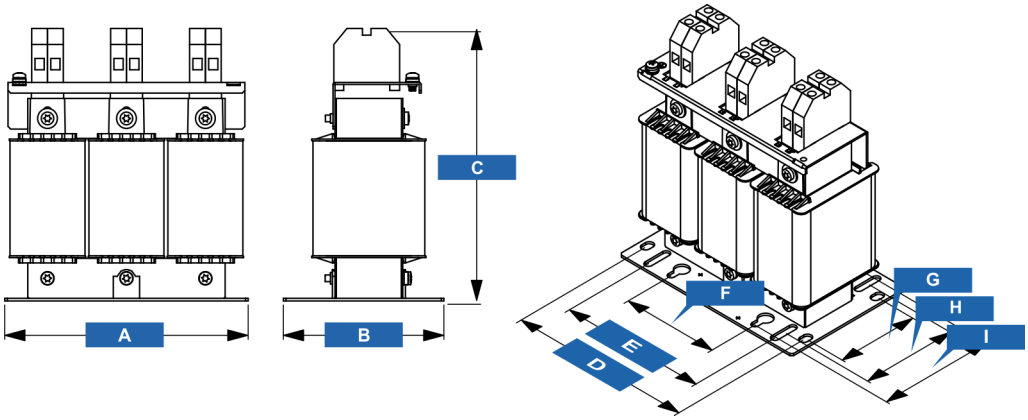


Fig. 12: Dimensions 13015808

Measurement	A	B	C	D	E	F	G	H	I
Millimeters [mm]	210	117	240	175	156	105	77	85	98
Inch [in]	8.27	4.61	9.45	6.89	6.14	4.13	3.03	3.35	3.86

3.9 Mains Choke 13015810 (90 A)

3.9.1 Technical Data

Article number	13015810
Type	3-phase mains choke
Rated current	90 A
Power loss(1)	115 W
Inductance	0.245 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	F
IP Code	IP00
Protection class (prepared)	I
Weight	13.1 kg
Connection method	Copper bar with drill hole for screw M8
Mounting method	Mounting rail
Fastening screws	M8
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

(1) Typical power loss when B6 rectifiers are used

3.9.2 Dimensions

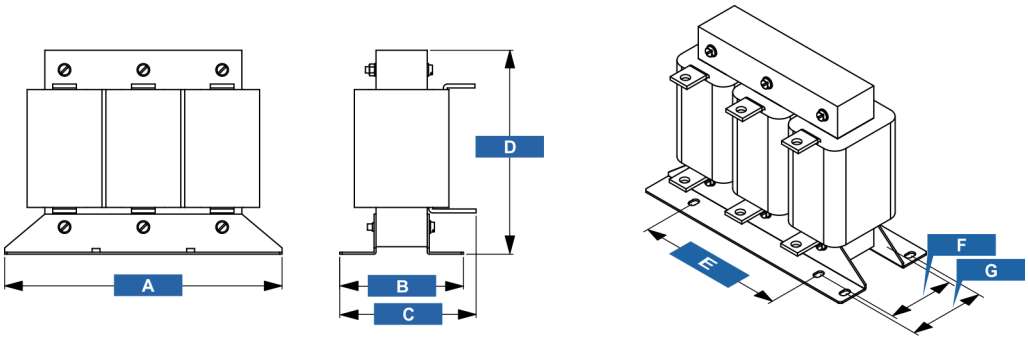


Fig. 13: Dimensions 13015810

Measurement	A	B	C	D	E	F	G
Millimeters [mm]	210	105	128	180	175	45	81
Inch [in]	8.27	4.13	5.04	7.09	6.89	1.77	3.19

3.10 Mains Choke 13015811 (100 A)

3.10.1 Technical Data

Article number	13015811
Type	3-phase mains choke
Rated current	100 A
Power loss[1]	140 W
Inductance	0.22 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	F
IP Code	IP00
Protection class (prepared)	I
Weight	13.9 kg
Connection method	Copper bar with drill hole for screw M8
Mounting method	Mounting rail
Fastening screws	M8
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.10.2 Dimensions

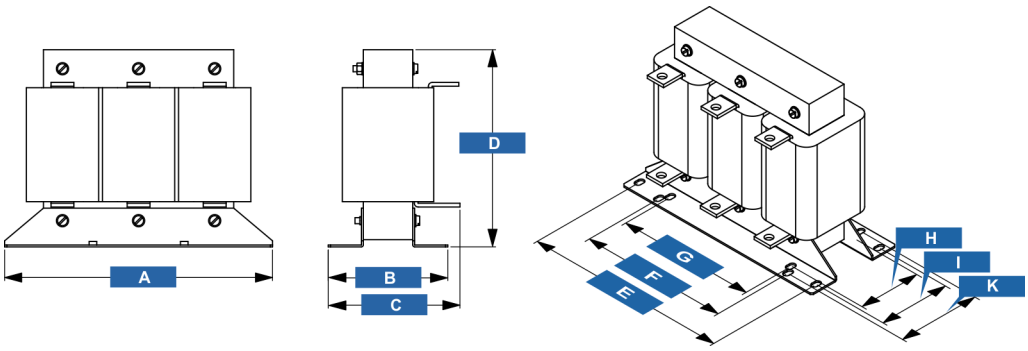


Fig. 14: Dimensions 13015811

Measurement	A	B	C	D	E	F	G	H	I	K
Millimeters [mm]	267	115	128	201	249	180	176	74	82	98
Inch [in]	10.51	4.53	5.04	7.91	9.8	7.09	6.93	2.91	3.23	3.86

3.11 Mains Choke 13015812 (180 A)

3.11.1 Technical Data

Article number	13015812
Type	3-phase mains choke
Rated current	180 A
Power loss[1]	190 W
Inductance	0.123 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	H
IP Code	IP00
Protection class (prepared)	I
Weight	27.7 kg
Connection method	Copper bar with drill hole for screw M8
Mounting method	Mounting rail
Fastening screws	M8
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.11.2 Dimensions

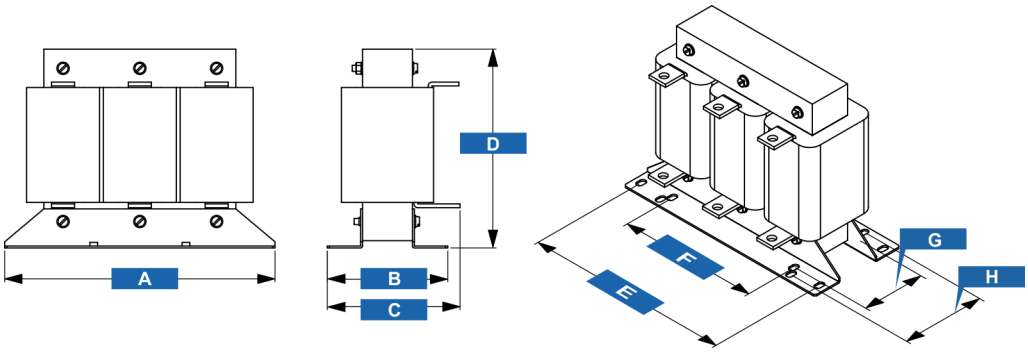


Fig. 15: Dimensions 13015812

Measurement	A	B	C	D	E	F	G	H
Millimeters [mm]	291	149	169	208	273	185	77	77
Inch [in]	11.46	5.87	6.65	8.19	10.75	7.28	3.03	3.03

3.12 Mains Choke 13015814 (250 A)

3.12.1 Technical Data

Article number	13015814
Type	3-phase mains choke
Rated current	250 A
Power loss[1]	270 W
Inductance	0.088 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	F
IP Code	IP00
Protection class (prepared)	I
Weight	32.3 kg
Connection method	Copper bar with drill hole for screw M8
Mounting method	Mounting rail
Fastening screws	M8
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.12.2 Dimensions

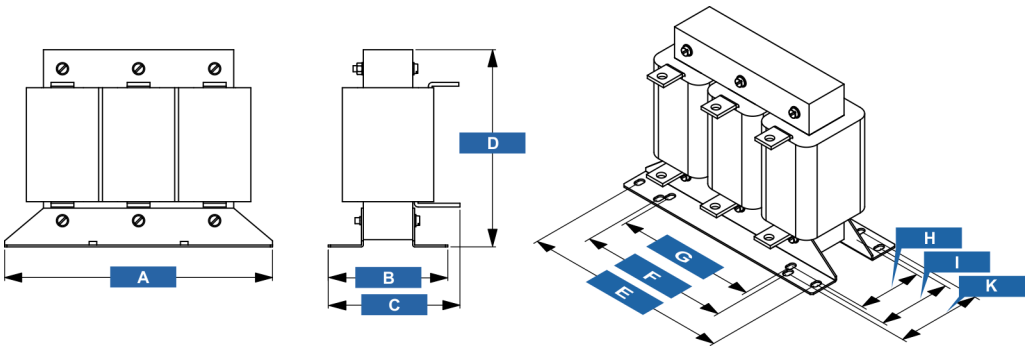


Fig. 16: Dimensions 13015814

Measurement	A	B	C	D	E	F	G	H	I	K
Millimeters [mm]	352	144	162	264	328	240	224	81	91	107
Inch [in]	13.86	5.67	6.38	10.39	12.91	9.45	8.82	3.19	3.58	4.21

3.13 Mains Choke 13015823 (300 A)

3.13.1 Technical Data

Article number	13015823
Type	3-phase mains choke
Rated current	300 A
Power loss[1]	320 W
Inductance	0.074 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	F
IP Code	IP00
Protection class (prepared)	I
Weight	33.7 kg
Connection method	Copper bar with drill hole for screw M8
Mounting method	Mounting rail
Fastening screws	M8
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.13.2 Dimensions

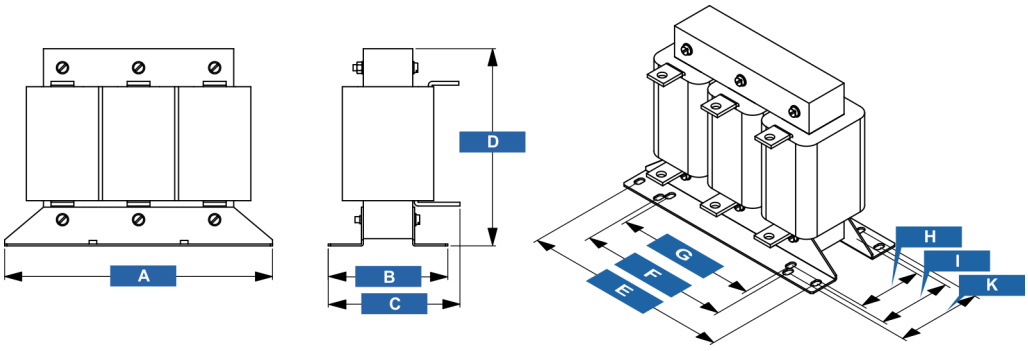


Fig. 17: Dimensions 13015823

Measurement	A	B	C	D	E	F	G	H	I	K
Millimeters [mm]	352	144	183	264	328	240	224	81	97	107
Inch [in]	13.86	5.67	7.2	10.39	12.91	9.45	8.82	3.19	3.82	4.21

3.14 Mains Choke 13015825 (500 A)

3.14.1 Technical Data

Article number	13015825
Type	3-phase mains choke
Rated current	500 A
Power loss[1]	450 W
Inductance	0.044 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	F
IP Code	IP00
Protection class (prepared)	I
Weight	54.4 kg
Connection method	Copper bar with drill hole for screw M8
Mounting method	Mounting rail
Fastening screws	M8
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.14.2 Dimensions

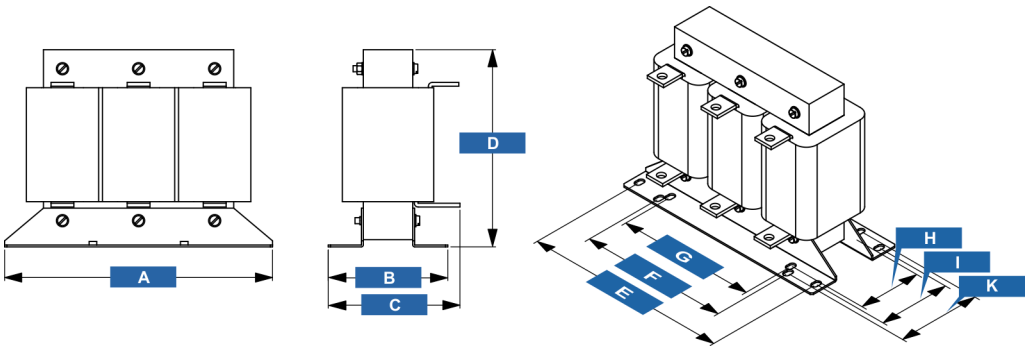


Fig. 18: Dimensions 13015825

Measurement	A	B	C	D	E	F	G	H	I	K
Millimeters [mm]	352	184	217	265	328	240	224	120	136	146
Inch [in]	13.86	7.24	8.54	10.43	12.91	9.45	8.82	4.72	5.35	5.75

3.15 Mains Choke 13015826 (630 A)

3.15.1 Technical Data

Article number	13015826
Type	3-phase mains choke
Rated current	630 A
Power loss[1]	540 W
Inductance	0.035 mH ±10 %
Max. operating voltage	3 × 480 V_{AC}
Mains frequency	50 – 60 Hz
Short-circuit voltage uk	3 %
Voltage drop	8.3 V_{AC}
Ambient temperature Tu	−10 to +40 °C
Surface temperature at max. Tu	+110 °C
Type of cooling	Natural air cooling
Test voltage	4000 V_{AC}
Insulation class	H
IP Code	IP00
Protection class (prepared)	I
Weight	70.2 kg
Connection method	Copper bar with drill hole for screw M8
Mounting method	Mounting rail
Fastening screws	M8
Certification	UL 506, CSA 22.2
Standards	DIN EN 61558-2-20, IEC 61558-2-20, UL 506, CSA 22.2

[1] Typical power loss when B6 rectifiers are used

3.15.2 Dimensions

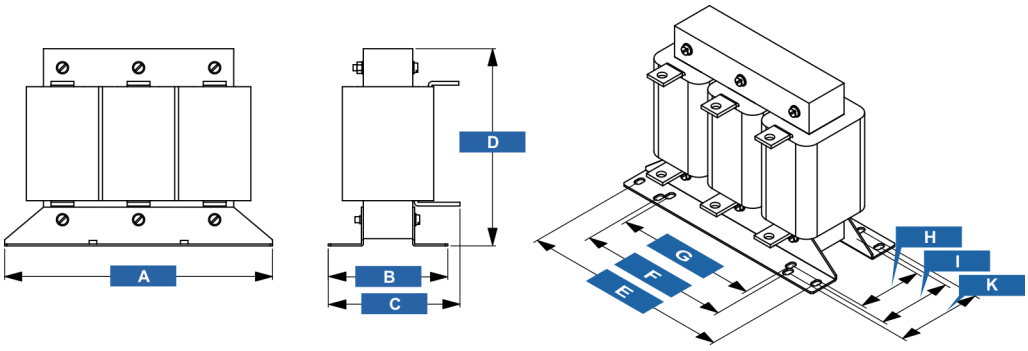


Fig. 19: Dimensions 13015826

Measurement	A	B	C	D	E	F	G	H	I	K
Millimeters [mm]	412	170	200	315	388	310	264	124	134	134
Inch [in]	16.22	6.69	7.87	12.4	15.28	12.2	10.39	4.88	5.28	5.28

4 Appendix

A CE Declarations

Below you will find the CE declarations for the mains chokes provided by the manufacturer BLOCK:

- single-phase mains chokes: NKE series
- three-phase mains chokes: LR3 series

EU-Konformitätserklärung
EU – Declaration of Conformity

BLOCK

Dokument-Nr. / Monat . Jahr: *Document-No. / Month . Year:*	KS- / 07 . 2019
Hersteller: *Manufacturer*	BLOCK Transformatoren-Elektronik GmbH
Anschrift: *Address*	Max-Planck-Straße 36-46, D-27283 Verden (Aller)
Produktbezeichnung: *Product Description*	Netzdrossel / Line reactor (choke) Modell / Type: NKE Baureihe / series NKE gefolgt von beliebigen Zusätzen / followed by any suffixes

Das vorstehend bezeichnete Produkt und die ggf. im Anhang „Varianten" aufgelisteten Produkte stimmen mit den Vorschriften der folgender Europäischen Richtlinien und deren Änderungsrichtlinien überein:
The designated product and if available any variations listed in the annex are in accordance with the following European directives and their amendments:

Nummer: *Number*	2014/35/EU (2014/35/EU)	Richtlinie des Rates zur Angleichung der Rechtsvorschriften der Mitgliedsstaaten betreffend elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen *Council Directive on the harmonization of the laws of the Member States relating to equipment designed for use within certain voltage limits.*
	2011/65/EU	Richtlinie 2011/65/EU (RoHS II) des europäischen Parlamentes und des Rates vom 8. Juni 2011 zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten inklusive der delegierten Richtlinie 2015/863/EU (RoHS III) der Kommission vom 31. März 2015 *Directive 2011/65/EU of the European parliament and of the council of 8th June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment including Commission Delegated Directive 2015/863/EU (RoHS III) of 31st March 2015*

Für die Beurteilung der Übereinstimmung wurden folgende Normen herangezogen:
For evaluating the accordance of the designated product(s) with the above mentioned directive(s) the following standards have been used:

EN 61558-1 + AC + A1 EN 61558-2-20 EN 50581	Ausgabedatum: *Date of Issue*	2005+2006+2009 2011 2012

Jahr der Anbringung der CE - Kennzeichnung nach den Richtlinien 2014/35/EU (2014/35/EU) und 2011/65/EU (bis auf Widerruf) *Year of attaching of CE-Mark according to the directives 2014/35/EU (2014/35/EU) and 2011/65/EU (subject to withdrawl)*	CE	19

Aussteller: *Issuer*	BLOCK Transformatoren-Elektronik GmbH Max-Planck-Straße 36-46, D-27283 Verden (Aller)

Ort, Datum: *Place, Date:*	Verden, 01.07.2019	Rechtsverbindliche Unterschrift: *Legally binding signature*	BLOCK Block Transformatoren-Elektronik GmbH Max-Planck-Straße 36–46 27283 Verden Wolfgang Reichelt - Geschäftsführer -

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, beinhaltet jedoch keine Zusicherung von Eigenschaften. Die Sicherheitshinweise der mitgelieferten Produktdokumentation / unseres Hauptkataloges sind zu beachten.
This declaration certifies the conformity with the designated directives, but contain no assurance of attributes. The safety notice of the delivered product documents / our main catalogue are to be observed.

CE	**EU - Konformitätserklärung** ***EU – Declaration of Conformity***	BLOCK

Erstellung des Dokumentes *Creation of the document*	**08 . 2021**	Monat . Jahr *Month . Year*
Produktbezeichnung *Product Description*	**Netzdrossel / *Line reactor (choke)*** **Modell / *Type*: LR3 Baureihe / *Series*** **LR3 gefolgt von beliebigen Zusätzen / *followed by any suffixes***	

Das bezeichnete Produkt und die ggf. aufgelisteten Varianten der Erklärung erfüllen die einschlägigen Harmonisierungsrechtsvorschriften der Union.
The object of the declaration is in conformity with the relevant Union harmonisation legislation.

Richtlinien *Directives*	**2014/35/EU**	Richtlinie des Rates zur Angleichung der Rechtsvorschriften der Mitgliedsstaaten betreffend elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen *Council Directive on the harmonization of the laws of the Member States relating to equipment designed for use within certain voltage limits.*
	2011/65/EU	Richtlinie des europäischen Parlamentes und des Rates zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten in der aktuell gültigen Fassung, insbesondere einschließlich der per delegierten Richtlinie 2015/863/EU hinzugenommenen vier Substanzen *Directive of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment and including the added four substances by the delegated directive 2015/863/EU*

Für die Beurteilung in Bezug auf die die Konformität wurden folgende einschlägige harmonisierte Normen bzw. technische Spezifikationen zugrunde gelegt.
The following standards or technical specifications have been used for evaluation in accordance with the European directives.

Normen *Standards*	**EN 61558-2-20** **EN IEC 63000**	Ausgabedatum *Date of issue*	**2011** **2018**

Zusätzliche Übereinstimmung mit folgenden Normen
Additional conformity of the designated product with the following standards

Normen *Standards*	-	Ausgabedatum *Date of issue*	-

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.
This declaration of conformity is issued under the sole responsibility of the manufacturer.

Hersteller / Adresse *Manufacturer / Adress*	**BLOCK Transformatoren-Elektronik GmbH** **Max-Planck-Straße 36-46, D-27283 Verden (Aller)**		
Ort, Datum *Location, Date*	Verden (Germany), 25.08.2021	Rechtsverbindliche Unterschrift *Legally binding signature*	BLOCK Block Transformatoren-Elektronik GmbH Max-Planck-Straße 36-46 27283 Verden Udo L. Thiel Geschäftsführer *Managing Director*

Diese Erklärung bescheinigt die Übereinstimmung der Richtlinien und Normen, beinhaltet jedoch keine Zusicherung aller Eigenschaften. Die Hinweise der mitgelieferten Produktdokumentation / unseres Hauptkataloges sind ebenfalls zu beachten.
This declaration certifies the conformity with the European directives and standards but contains no assurance of all attributes. The instructions of the provided product documents or our main catalogue also have to be observed.