

Choke Modules

Technical Information

Overview of the motor chokes used in drive applications



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1	Overview.....	6
1.1	Preferential Choke Modules.....	6
1.1.1	Article Number 130xxxxx.....	6
1.1.2	Article Number 021xxxxx.....	7
1.1.3	Article Number 036xxxxx.....	7
1.2	Other Choke Modules.....	7
1.2.1	Article Number 130xxxxx.....	7
1.2.2	Article Number 02180xxxx.....	8
2	Safety and Mounting Instructions.....	9
2.1	Mounting.....	9
2.2	Protective Measures During Operation.....	9
2.3	Chokes with Water Cooling.....	9
2.3.1	Connection of the cooling unit.....	10
3	Choke Module 13015502.....	11
3.1	Technical Data.....	11
3.2	Dimensions.....	12
4	Choke Module 13015503.....	13
4.1	Technical Data.....	13
4.2	Dimensions.....	14
5	Choke Module 13015505.....	15
5.1	Technical Data.....	15
5.2	Dimensions.....	16
6	Choke Module 13015508.....	17
6.1	Technical Data.....	17
6.2	Dimensions.....	18
7	Choke Module 13015509.....	19
7.1	Technical Data.....	19
7.2	Dimensions.....	20
8	Choke Module 13015510.....	21
8.1	Technical Data.....	21
8.2	Dimensions.....	22
9	Choke Module 13015518.....	23
9.1	Technical Data.....	23
9.2	Dimensions.....	23
10	Choke Module 13015520.....	24
10.1	Technical Data.....	24
10.2	Dimensions.....	24
11	Choke Module 13015550.....	26
11.1	Technical Data.....	26
11.2	Dimensions.....	27
12	Choke Module 13015551.....	28
12.1	Technical Data.....	28
12.2	Dimensions.....	29
13	Choke Module 13015552.....	30
13.1	Technical Data.....	30
13.2	Dimensions.....	31



14	Choke Module 13015554.....	32
14.1	Technical Data.....	32
14.2	Dimensions.....	33
15	Choke Module 13015559.....	34
15.1	Technical Data.....	34
15.2	Dimensions.....	35
16	Choke Module 13015560.....	36
16.1	Technical Data.....	36
16.2	Dimensions.....	37
17	Choke Module 13015568.....	38
17.1	Technical Data.....	38
17.2	Dimensions.....	39
18	Choke Module 13015600.....	40
18.1	Technical Data.....	40
18.2	Dimensions.....	40
19	Choke Module 13015601.....	41
19.1	Technical Data.....	41
19.2	Dimensions.....	42
20	Choke Module 13015604.....	43
20.1	Technical Data.....	43
20.2	Dimensions.....	44
21	Choke Module 13015606.....	45
21.1	Technical Data.....	45
21.2	Dimensions.....	46
22	Choke Module 13015607.....	47
22.1	Technical Data.....	47
22.2	Dimensions.....	48
23	Choke Module 13015610.....	49
23.1	Technical Data.....	49
23.2	Dimensions.....	50
24	Choke Module 13015657.....	51
24.1	Technical Data.....	51
24.2	Dimensions.....	52
25	Choke Module 13015661.....	53
25.1	Technical Data.....	53
25.2	Dimensions.....	54
26	Choke Module 13015662.....	55
26.1	Technical Data.....	55
26.2	Dimensions.....	56
27	Choke Module 13015665.....	57
27.1	Technical Data.....	57
27.2	Dimensions.....	58
28	Choke Module 02171400.....	59
28.1	Technical Data.....	59
28.2	Dimensions/Mounting.....	60



28.2.1	Delivered Device from June 2016 Onwards.....	60
28.2.2	Delivered Device until May 2016.....	61
29	Choke Module 021800041.....	62
29.1	Technical Data.....	62
29.2	Dimensions.....	62
29.3	Connection.....	62
30	Choke Module 036210081/x.....	63
30.1	Technical Data.....	63
30.2	Dimensions.....	63
30.3	Connection.....	63
31	Choke Module 036210180/A.....	65
31.1	Technical Data.....	65
31.2	Dimensions.....	65
31.3	Connection.....	65
	Index.....	67

1 Overview

1.1 Preferential Choke Modules

This chapter contains an overview of all choke modules recommended by SIEB & MEYER for drive applications. Other available choke modules are listed in [chapter 1.2 "Other Choke Modules", page 7](#). SIEB & MEYER recommends to replace these choke modules by one of the preferential choke modules. Consider the link to the detailed description of the individual choke modules.

Value	Symbol [unit]
Rated current	I_n [Arms]
Inductance ($\pm 10\%$ at rated current I_n)	L [μ H]
Peak current	I_{max} [Arms]
Max. ripple current	ΔI [App]
Fundamental wave (value up to n kHz)	f_g [kHz]
Current ripple frequency	f_p [kHz]
Max. ambient temperature	T_u [$^{\circ}$ C]
Surface temperature at max. ambient temperature	T_o at T_u [$^{\circ}$ C]
Test voltage (for 5 seconds)	V_p , rms [kV _{AC}]
Weight	[kg]

1.1.1 Article Number 130xxxxx

I_n [Arms]	L [μ H]	I_{max} [Arms]	ΔI [App]	f_g [kHz]	f_p [kHz]	T_u [$^{\circ}$ C]	T_o at T_u [$^{\circ}$ C]	V_p , rms [kV _{AC}]	Weight [kg]	Article number	Description
15	400	25	42	3	30	55	100	2.5	3.5	13015510	page 21
16	50	44	3.2	1.5	30	50	100	2.5	2.4	13015552	page 30
16	200	44	3.2	1.5	30	50	100	2.5	4.8	13015554	page 32
29	200	82	10	1.5	15	50	100	2.5	9.2	13015508	page 17
29	400	50	14	2	32	55	>100	5	9.45	13015604	page 43
30	50	85	–	1.5	32	55	>100	5	3.5	13015657	page 51
30	100	85	6	1.5	30	50	100	2.5	8.5	13015509	page 19
30	200	85	6	1.5	30	50	100	2.5	10.5	13015559	page 34
44	150	125	15	1.5	15	50	100	2.5	12.6	13015550	page 26
44	300	70	–	2	32	55	>100	5	19.5	13015607	page 47
54	150	92	–	1.5	32	55	>100	5	12	13015665	page 57
54	250	62	–	1.5	32	55	>100	5	16.5	13015601	page 41
80	100	141	–	1.5	32	55	>100	5	15	13015662	page 55
80	200	90	–	1.5	32	55	>100	5	31	13015606	page 45
150	400	210	–	1	32	40	>100	5	55	13015610 ⁽¹⁾	page 49
200	50	299	–	1	32	55	>100	5	39	13015661	page 53
220	20	330	–	1.5	16	40	110	2.5	33.5	13015520	page 24
300	30	600	–	1	16	40	110	2.5	41	13015600	page 40
420	20	1000	–	1	16	40	110	4	70	13015518	page 23

⁽¹⁾ water-cooled choke (see [chapter 2.3 "Chokes with Water Cooling", page 9](#))

1.1.2 Article Number 021xxxxx

In [Arms]	L [μH]	I _{max} [Arms]	Delta I [App]	f _g [kHz]	f _p [kHz]	T _u [°C]	To at T _u [°C]	V _{p, rms} [kV _{AC}]	Weight [kg]	Article number	Description
220	100	350	68	1.5	12	40	100	2.5	53.5	02171400 ⁽¹⁾	page 59

⁽¹⁾ water-cooled choke (see [chapter 2.3 “Chokes with Water Cooling”, page 9](#))

1.1.3 Article Number 036xxxxx

In [Arms]	L [μH]	Article number	Description
6 Arms at max. 40 °C ambient temperature	220 μH at 25 °C	036210180	page 65
6 Arms at max. 40 °C ambient temperature	330 μH at 20 °C	036210180A	page 65
12 Arms at max. 40 °C ambient temperature	350 μH at 25 °C 210 μH at 100 °C	036210081 (replaces 021800039)	page 63
12 Arms at max. 40 °C ambient temperature	220 μH at 25 °C	036210081A	page 63
8 Arms at max. 40 °C ambient temperature	700 μH at 25 °C	036210081B	page 63

1.2 Other Choke Modules

This chapter contains an overview of the choke modules of article number 130xxxxx available at SIEB & MEYER beside the preferential choke modules. SIEB & MEYER recommends to replace these choke modules by the preferential choke modules in [chapter 1.1 “Preferential Choke Modules”, page 6](#). Consider the link to the detailed description of the individual choke modules.

Value	Symbol [unit]
Rated current	In [Arms]
Inductance (±10 % at rated current In)	L [μH]
Peak current	I _{max} [Arms]
Max. ripple current	Delta I [App]
Fundamental wave (value up to <i>n</i> kHz)	f _g [kHz]
Current ripple frequency	f _p [kHz]
Max. ambient temperature	T _u [°C]
Surface temperature at max. ambient temperature	To at T _u [°C]
Test voltage (for 5 seconds)	V _{p, rms} [kV _{AC}]
Weight	[kg]

1.2.1 Article Number 130xxxxx

In [Arms]	L [μH]	I _{max} [Arms]	Delta I [App]	f _g [kHz]	f _p [kHz]	T _u [°C]	To at T _u [°C]	V _{p, rms} [kV _{AC}]	Weight [kg]	Article number	Description
12	400	34	4	1.5	15	50	100	2.5	5.65	13015551	page 28
14	800	25	2	2	15	50	100	2.5	7.33	13015568	page 38
60	50	170	12	1.5	30	50	–	2.5	10.5	13015560	page 36
120	150	180	44	1.5	12	50	100	2.5	32.5	13015505	page 15
150	120	240	56	1.5	12	40	100	2.5	37	13015502	page 11
180	100	350	68	1.5	12	40	100	2.5	49	13015503	page 13

1.2.2 Article Number 02180xxxx

In [Arms]		L [μ H]		Article number	Description
Var.: –	Var.: A	Var.: –	Var.: A		
11 Arms with forced ventilation 6 Arms at max. 40 °C ambient temperature	11 Arms	3 x 220 μ H	3 x 50 μ H	021800041	page 62

2 Safety and Mounting Instructions

2.1 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.

2.2 Protective Measures During Operation

⚠ DANGER



Risk of 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.

2.3 Chokes with Water Cooling

⚠ CAUTION



Risks when handling cooling liquids

- Cooling liquids can cause damage to health and environment: Avoid skin and eye contact. Dispose cooling liquids in an environmentally acceptable way according to the local regulations.
- Cooling liquids can heat up to a temperature of 70 °C and might be under high pressure: Use collection containers for liquid leakage.

Pay attention to the following notes about liquid coolants:

- ▶ The coolant must be based on water and it must contain corrosion inhibitor.
- ▶ Anti-fungal agents can prevent clogging of the cooling pipes.
- ▶ The coolant must be cleaned.
- ▶ No solid objects must be carried along.
- ▶ The system monitoring should check the following parameters:

- temperature
- maximum pressure
- pressure loss (system leakage)
- flow rate
- ▶ The coolant must be chemically neutral.
- ▶ Bedewing at the heat sink and the connected cooling pipes must be prevented. (Bedewing is caused especially, when the coolant temperature is low and high humidity in connection with high temperatures is present.)

2.3.1 Connection of the cooling unit

The device heat sink must be connected to a cooling unit for heat dissipation.

⚠ DANGER



High voltages in connection with cooling liquids

- Before you carry out any works at the cooling circuit, you must switch off all electric equipment located in the danger area (e.g. switch cabinet). Wait until the respective discharge times of the electric equipment are passed.
- Check that the cooling system is watertight before you connect any electric equipment located in the danger area (e.g. switch cabinet) to the mains supply.

NOTICE

Low coolant flow rate

If the coolant flow rate is too low, the drive and the connected components may overheat.

- After filling the complete cooling circuit must be vented. We strongly recommend the use of flow rate sensors.

Devices with cooling water tubes

The form of connection to the cooling unit depends on the conditions in the overall system. One possibility is to use cutting rings with suitable fittings. The following companies, for example, provide the connection elements:

- ▶ EMB – Eifeler Maschinenbau GmbH: <http://www.emb-eifel.de/>
- ▶ RO-FI Edelstahlhandel GmbH: <http://www.rofi.de>

Devices with threads

The device comes with a connection area with internal screw threads at the bottom. The form of connection to the cooling unit depends on the conditions in the overall system. One possibility is to use straight compression fittings.

3 Choke Module 13015502

Note

SIEB & MEYER recommends replacing this choke module by one of the preferential choke modules (see [chapter 1.1 “Preferential Choke Modules”, page 6](#)).

3.1 Technical Data

Choke	13015502
Rated current I_n	150 A _{rms}
Inductance L (branch)	120 μ H $\pm$ 10% at 150 A
Peak current I_{max}	240 A _{rms}
Max. ripple current I_{pp} (delta I)	56 App
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	up to 12 kHz
Max. ambient temperature T_u	40 °C
Surface temperature T_o at T_u	100 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight	37 kg
IP code	IP00

Connector	UKH 95 ⁽¹⁾
Connector type	High-current reminal block
Connection method	Screw connection
Max. conductor cross section (solid)	95 mm ²
Max. conductor cross section (stranded)	95 mm ²
Max. tightening torque	20 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	USLKG 95 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	95 mm ²
Max. conductor cross section (stranded)	95 mm ²
Max. tightening torque	20 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

3.2 Dimensions

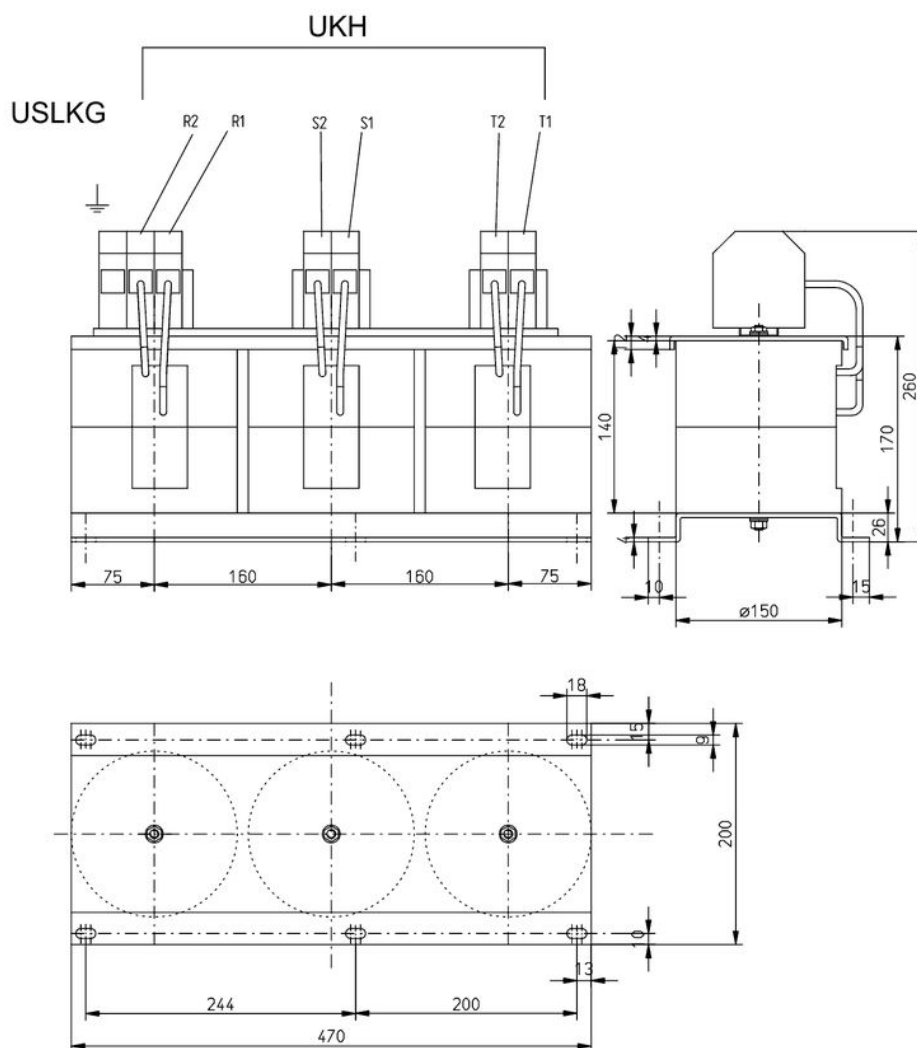


Fig. 1: Dimensions [mm] of the choke module 13015502: Free dimension tolerance acc. to DIN ISO 2768-c, bent across the direction of rolling (junction in insulation tube)

4 Choke Module 13015503

4.1 Technical Data

Choke	13015503
Rated current I_n	180 A _{rms} ⁽¹⁾
Inductance L (branch)	100 µH ±10% at 220 A
Peak current I_{max}	350 A _{rms}
Max. ripple current I_{pp} (delta I)	68 App
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	up to 12 kHz
Max. ambient temperature T_u	40 °C
Surface temperature T_o at T_u	100 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight	49 kg
IP code	IP00

⁽¹⁾ ventilated (e.g. with SIEB & MEYER fan unit EL021711003)

Connector	UKH 95 ⁽¹⁾
Connector type	High-current terminal block
Connection method	Screw connection
Max. conductor cross section (solid)	50 mm ²
Max. conductor cross section (stranded)	95 mm ²
Max. tightening torque	20 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	USLKG 95 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	50 mm ²
Max. conductor cross section (stranded)	95 mm ²
Max. tightening torque	20 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

4.2 Dimensions

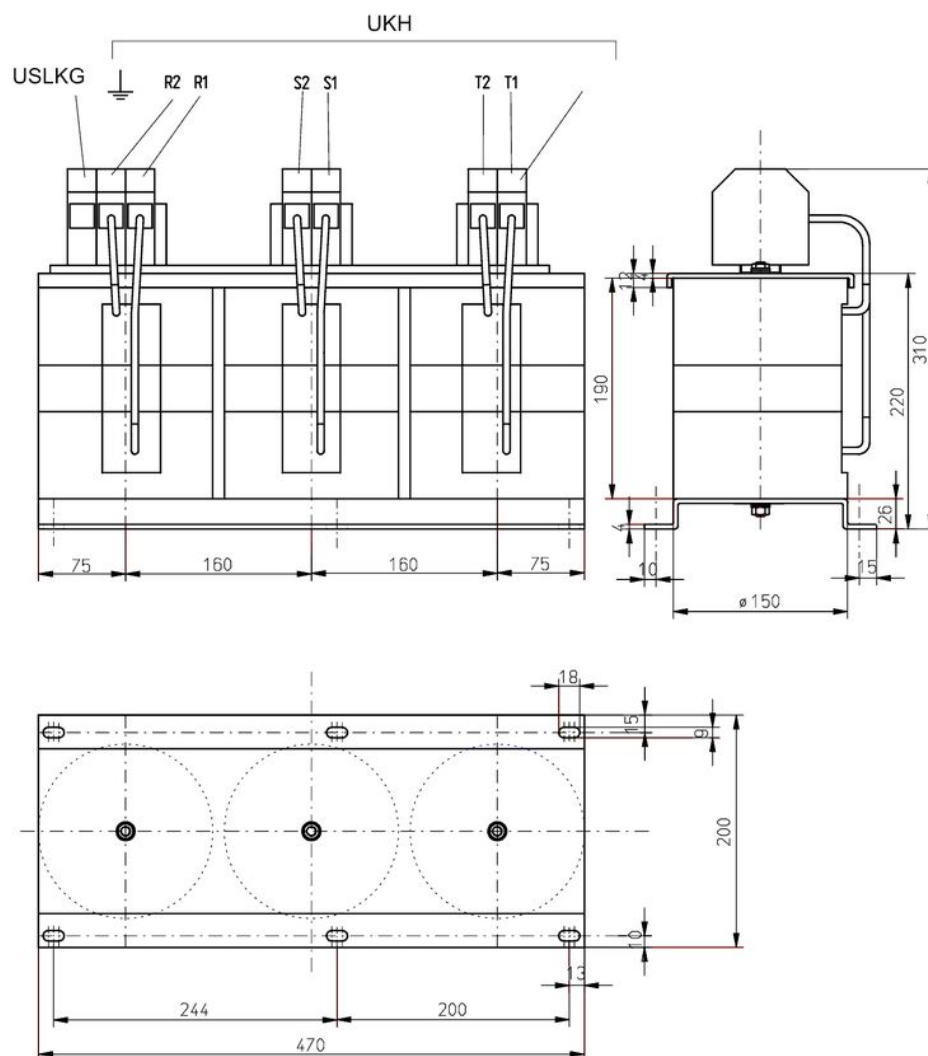


Fig. 2: Dimensions [mm] of the choke module 13015503: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

5 Choke Module 13015505

5.1 Technical Data

Choke	13015505
Rated current I_n	120 A _{rms}
Inductance L (branch)	150 μ H $\pm$ 10% at 100 A
Peak current I_{max}	180 A _{rms}
Max. ripple current I_{pp} (ΔI)	44 App
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	up to 12 kHz
Max. ambient temperature T_u	50 °C
Surface temperature T_o at T_u	100 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight	32.5 kg
IP code	IP00

Connector	UKH 95 ⁽¹⁾
Connector type	High-current reminal block
Connection method	Screw connection
Max. conductor cross section (solid)	95 mm ²
Max. conductor cross section (stranded)	95 mm ²
Max. tightening torque	20 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	USLKG 95 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	95 mm ²
Max. conductor cross section (stranded)	95 mm ²
Max. tightening torque	20 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

5.2 Dimensions

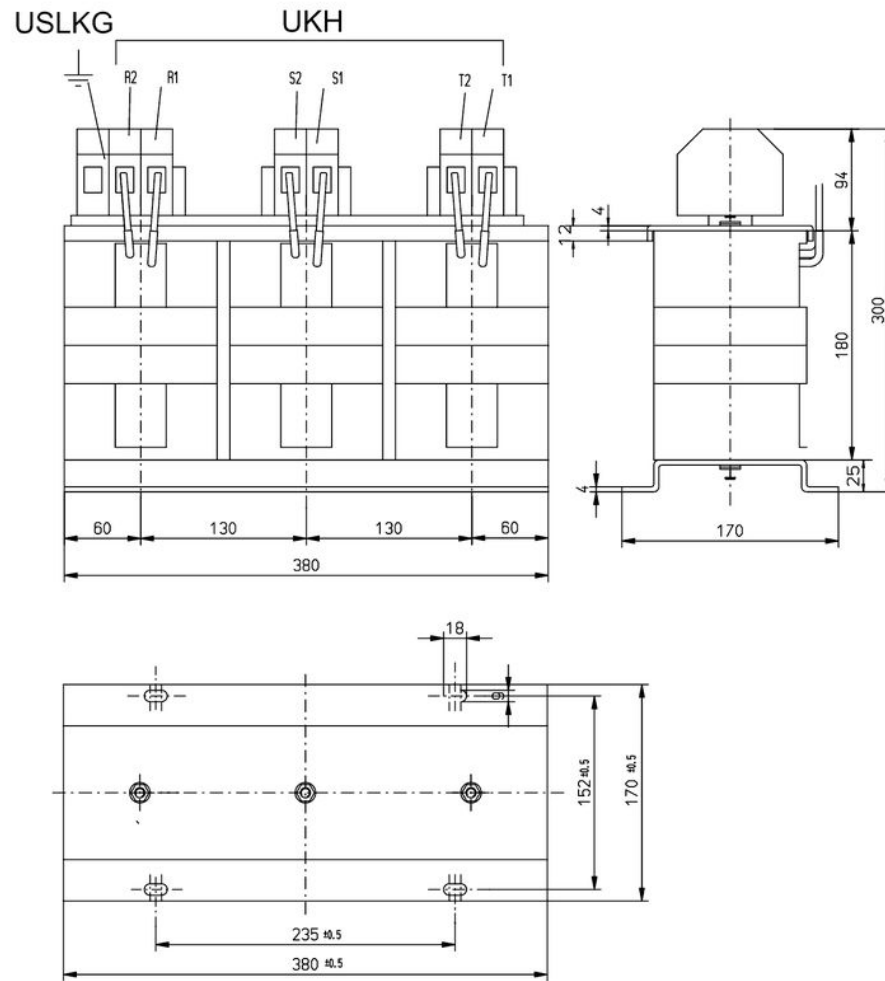


Fig. 3: Dimensions [mm] of the choke module 13015505: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

6 Choke Module 13015508

6.1 Technical Data

Choke	13015508
Rated current I_n	29 A _{rms}
Inductance L (branch)	200 µH ±10% at 29 A
Peak current I_{max}	82 A _{rms}
Max. ripple current I_{pp} (delta I)	10 A _{pp}
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	Up to 15 kHz
Max. ambient temperature T_u	50 °C
Surface temperature T_o at T_u	100 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight	9.2 kg
IP code	IP00

Connector	UIK 16 ⁽¹⁾
Connector type	Installation terminal block
Connection method	Screw connection
Max. conductor cross section (solid)	25 mm ²
Max. conductor cross section (stranded)	16 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	UISLKG 16 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	25 mm ²
Max. conductor cross section (stranded)	16 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

6.2 Dimensions

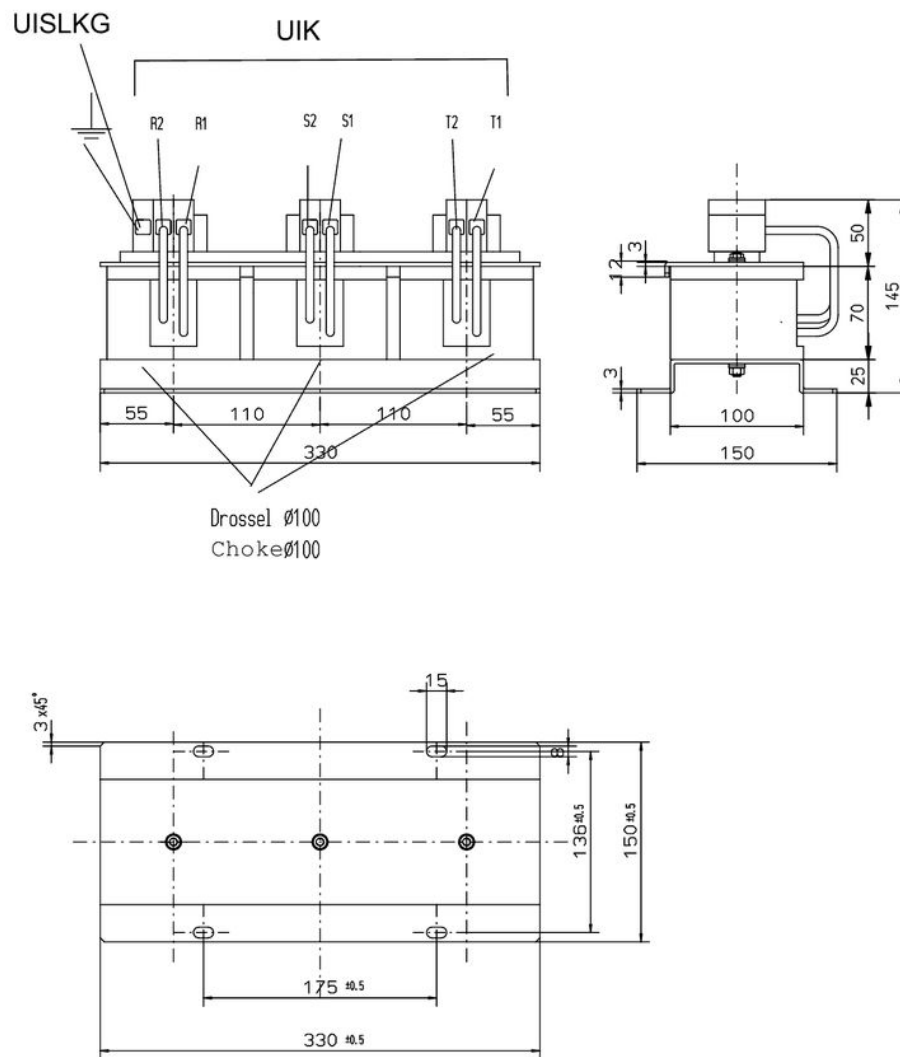


Fig. 4: Dimensions [mm] of the choke module 13015508: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

7 Choke Module 13015509

7.1 Technical Data

Choke	13015509
Rated current I_n	30 A _{rms}
Inductance L (branch)	100 µH ±10% at 30 A
Peak current I_{max}	85 A _{rms}
Max. ripple current I_{pp} (delta I)	6 App
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	up to 30 kHz
Max. ambient temperature T_u	50 °C
Surface temperature T_o at T_u	100 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight	8.5 kg
IP code	IP00

Connector	UIK 16 ⁽¹⁾
Connector type	Installation terminal block
Connection method	Screw connection
Max. conductor cross section (solid)	25 mm ²
Max. conductor cross section (stranded)	16 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	UISLKG 16 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	25 mm ²
Max. conductor cross section (stranded)	16 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

7.2 Dimensions

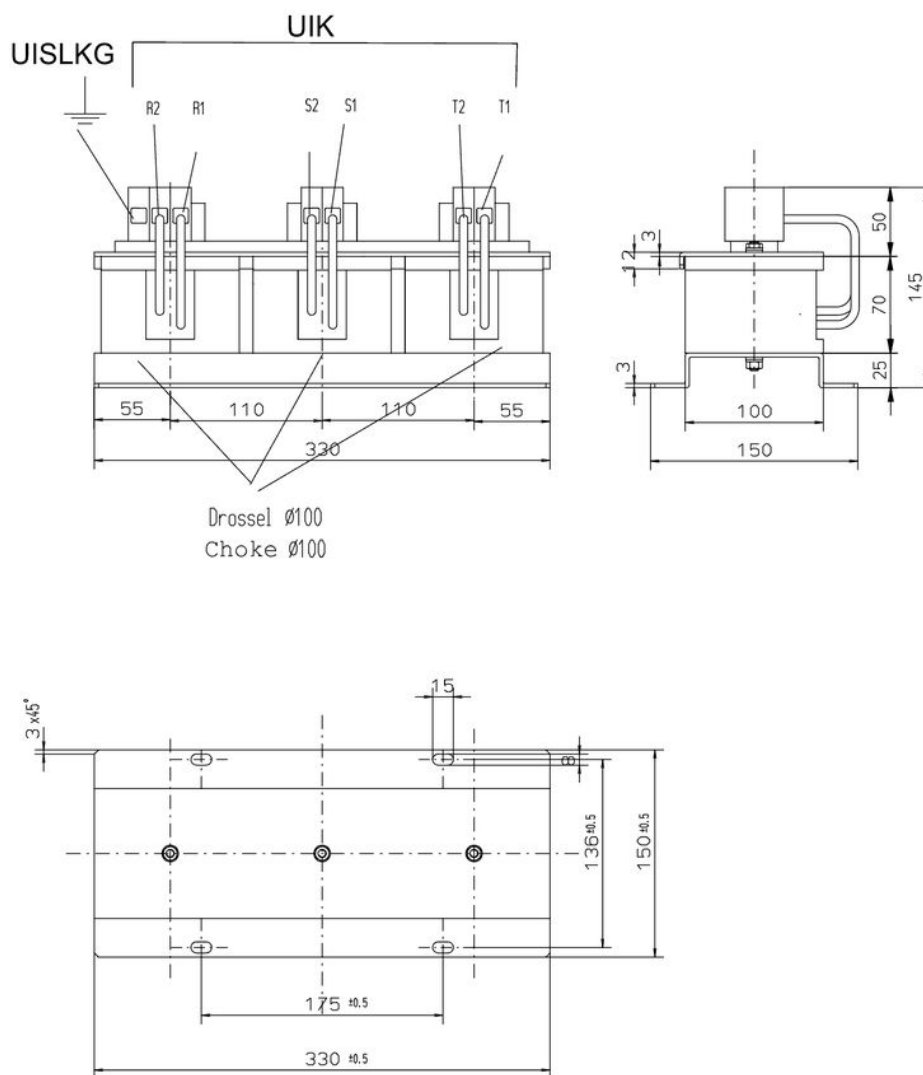


Fig. 5: Dimensions [mm] of the choke module 13015509: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

8 Choke Module 13015510

8.1 Technical Data

Choke	13015510
Rated current I_n	15 A _{rms}
Inductance L (branch)	400 µH ±10% at 15 A
Peak current I_{max}	25 A _{rms}
Max. ripple current I_{pp} (delta I)	42 App
Fundamental wave f_g	3 kHz
Current ripple frequency f_p	up to 30 kHz
Max. ambient temperature T_u	55 °C
Surface temperature T_o at T_u	110 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight	3.5 kg
IP code	IP00

Connector	UK 10 ⁽¹⁾
Connector type	Through terminal
Connection method	Screw connection
Max. conductor cross section (solid)	16 mm ²
Max. conductor cross section (stranded)	10 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	USLKG 10 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	10 mm ²
Max. conductor cross section (stranded)	6 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

8.2 Dimensions

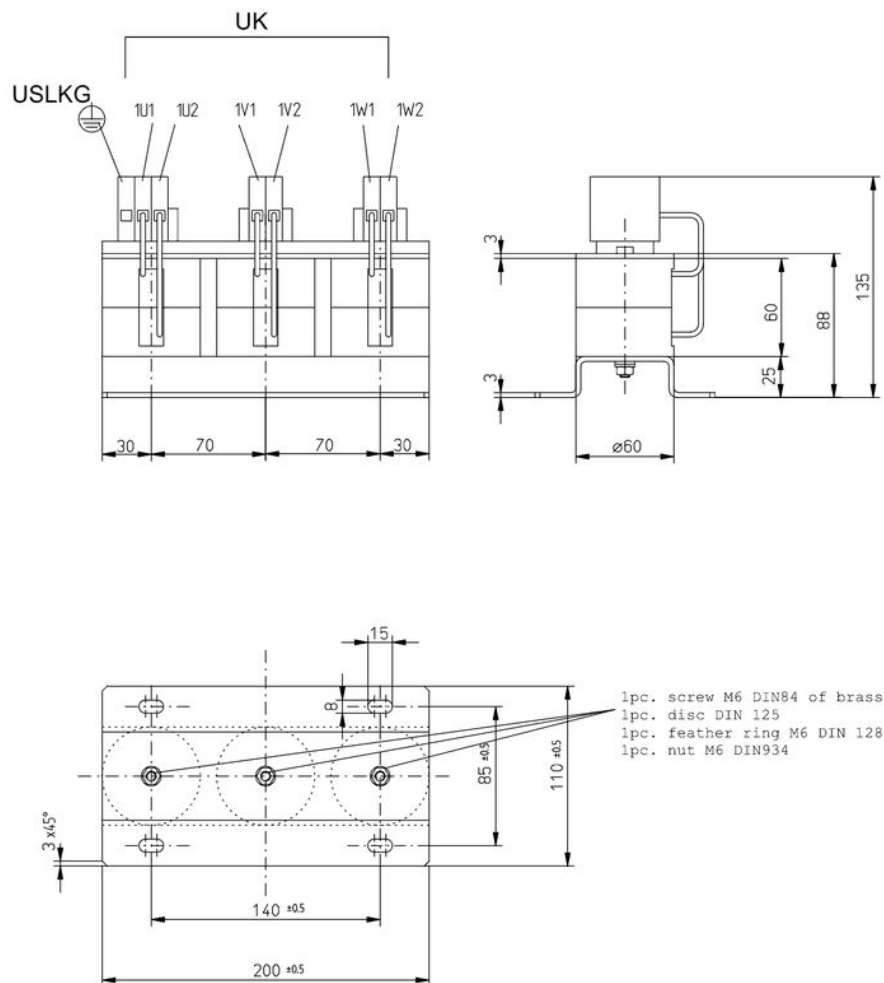


Fig. 6: Dimensions [mm] of the choke module 13015510: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

9 Choke Module 13015518

9.1 Technical Data

Choke	13015518
Rated current I_n	420 A _{rms}
Rated voltage V_n	480 V
Inductance L (branch)	20 μ H $\pm$ 10% at 420 A _{rms}
Peak current I_{max} (min.)	1000 A _{rms}
Ripple current (at 16 kHz)	Not specified
Fundamental wave f_g	1 kHz
Current ripple frequency f_p	Up to 16 kHz
Ambient temperature T_u	-10 to +40 °C
Surface temperature T_o at max. T_u	110 °C
Test voltage V_p , rms	4 kV _{AC}
Weight (net)	70 kg
Aluminum weight	8.7 kg
IP Code	IP00

Connector	
Inputs/outputs (U, V, W)	Copper bar with drill hole for screw M8
PE terminal	Screw M8

9.2 Dimensions

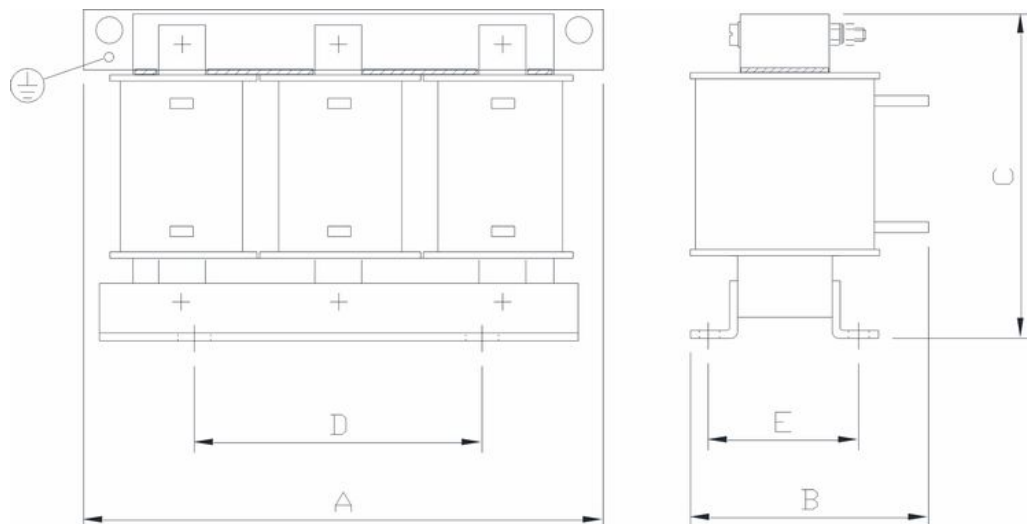


Fig. 7: Dimensions of choke module 13015518: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

13015518	
Dimensions	A × B × C = 420 × 453 × 370 mm
Fixing dimensions	D × E = 370 × 151 mm
Fastening screws	4 × M10

10 Choke Module 13015520

10.1 Technical Data

Choke	13015520
Rated current I_n	220 A _{rms}
Inductance L (branch)	20 µH ±10% at 220 A _{rms}
Peak current I_{max}	330 A _{rms}
Fundamental wave f_g	1.5 kHz (max. 2 kHz)
Current ripple frequency f_p	Up to 16 kHz
Max. ambient temperature T_u	-10 to +40 °C
Surface temperature T_o at T_u	110 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight (net)	33.5 kg
Aluminum weight	2.0 kg
IP Code	IP00

Connector	UK 10
Connector type	Screw connection
Connection method	Screw connection M8

10.2 Dimensions

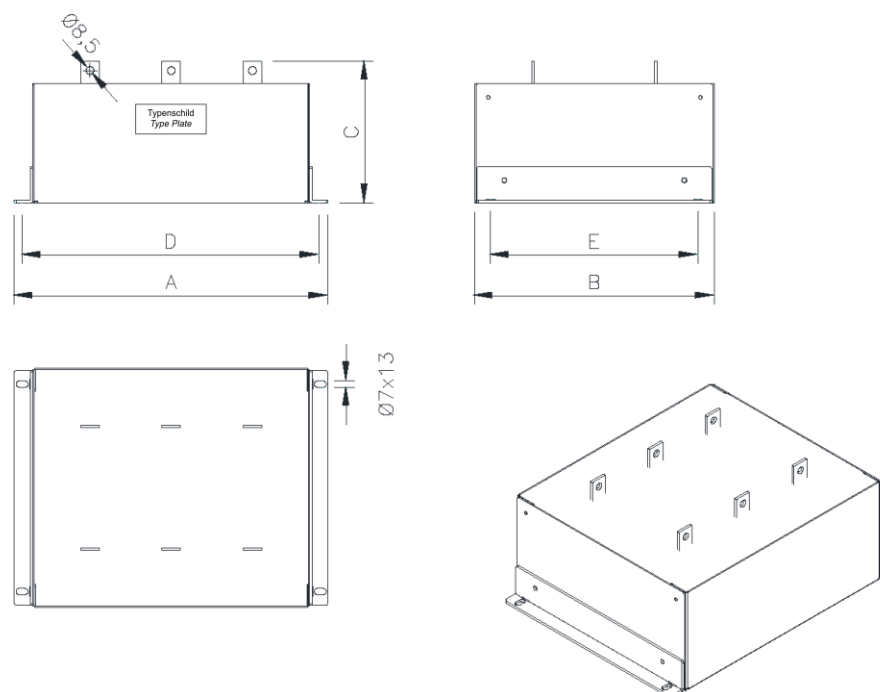


Fig. 8: Dimensions [mm] of the choke module 13015520: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

13015520	
Dimensions	A × B × C = 340 × 260 × 160
Fixing dimensions	D × E = 225 × 324



13015520	
Fastening screws	4 × M6

11 Choke Module 13015550

11.1 Technical Data

Choke	13015550
Rated current I_n	44 A _{rms}
Inductance L (branch)	150 µH ±10% at 44 A
Peak current I_{max}	125 A _{rms}
Max. ripple current I_{pp} (delta I)	15 A _{pp}
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	Up to 15 kHz
Max. ambient temperature T_u	50 °C
Surface temperature T_o at T_u	100 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight	12.6 kg
IP code	IP00

Connector	UK 35 ⁽¹⁾
Connector type	Through terminal
Connection method	Screw connection
Max. conductor cross section (solid)	50 mm ²
Max. conductor cross section (stranded)	35 mm ²
Max. tightening torque	3.7 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	USLKG 35 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	50 mm ²
Max. conductor cross section (stranded)	35 mm ²
Max. tightening torque	3.7 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

11.2 Dimensions

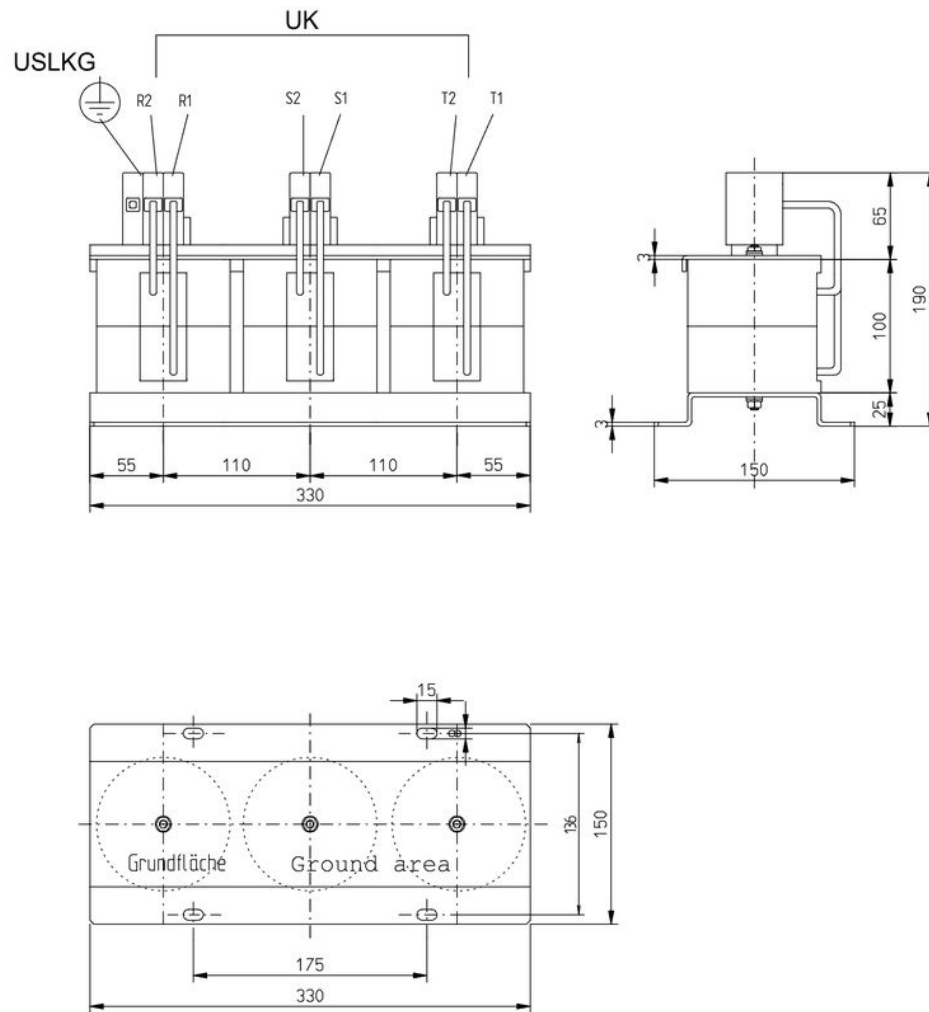


Fig. 9: Dimensions [mm] of the choke module 13015550: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

12 Choke Module 13015551

12.1 Technical Data

Choke	13015551
Rated current I_n	12 A _{rms}
Inductance L (branch)	400 µH ±10% at 12 A
Peak current I_{max}	34 A _{rms}
Max. ripple current I_{pp} (delta I)	4 A _{pp}
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	Up to 15 kHz
Max. ambient temperature T_u	50 °C
Surface temperature T_o at T_u	100 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight	5.65 kg
IP code	IP00

Connector	UK 10 ⁽¹⁾
Connector type	Through terminal
Connection method	Screw connection
Max. conductor cross section (solid)	16 mm ²
Max. conductor cross section (stranded)	10 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	USLKG 10 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	10 mm ²
Max. conductor cross section (stranded)	6 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

12.2 Dimensions

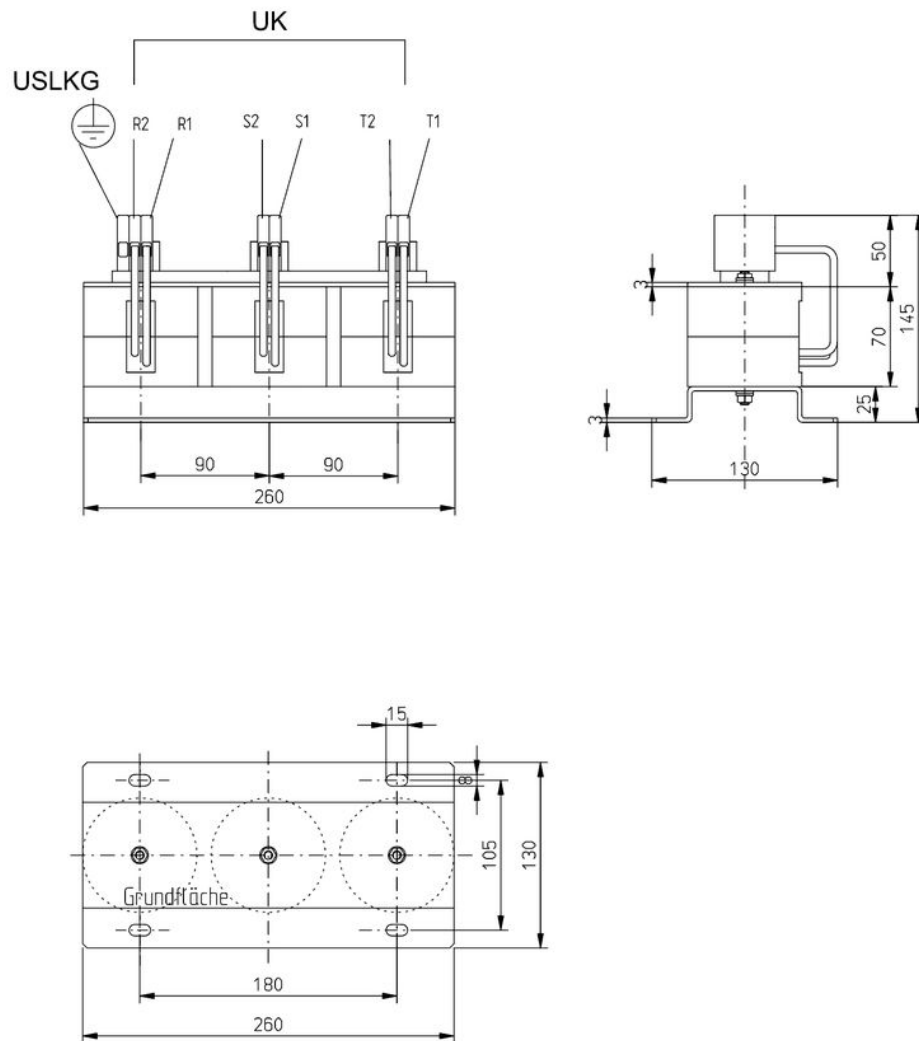


Fig. 10: Dimensions [mm] of the choke module 13015551: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

13 Choke Module 13015552

13.1 Technical Data

Choke	13015552
Rated current I_n	16 A _{rms}
Inductance L (branch)	50 µH ±10% at 16 A
Peak current I_{max}	44 A _{rms}
Max. ripple current I_{pp} (delta I)	3.2 App
Fundamental wave fg	1.5 kHz
Current ripple frequency fp	up to 30 kHz
Max. ambient temperature Tu	50 °C
Surface temperature To at Tu	100 °C
Test voltage Vp, rms	2.5 kV _{AC} 5 s
Weight	2.4 kg
IP code	IP00

Connector	UK 10 ⁽¹⁾
Connector type	Through terminal
Connection method	Screw connection
Max. conductor cross section (solid)	16 mm ²
Max. conductor cross section (stranded)	10 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	USLKG 10 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	10 mm ²
Max. conductor cross section (stranded)	6 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

13.2 Dimensions

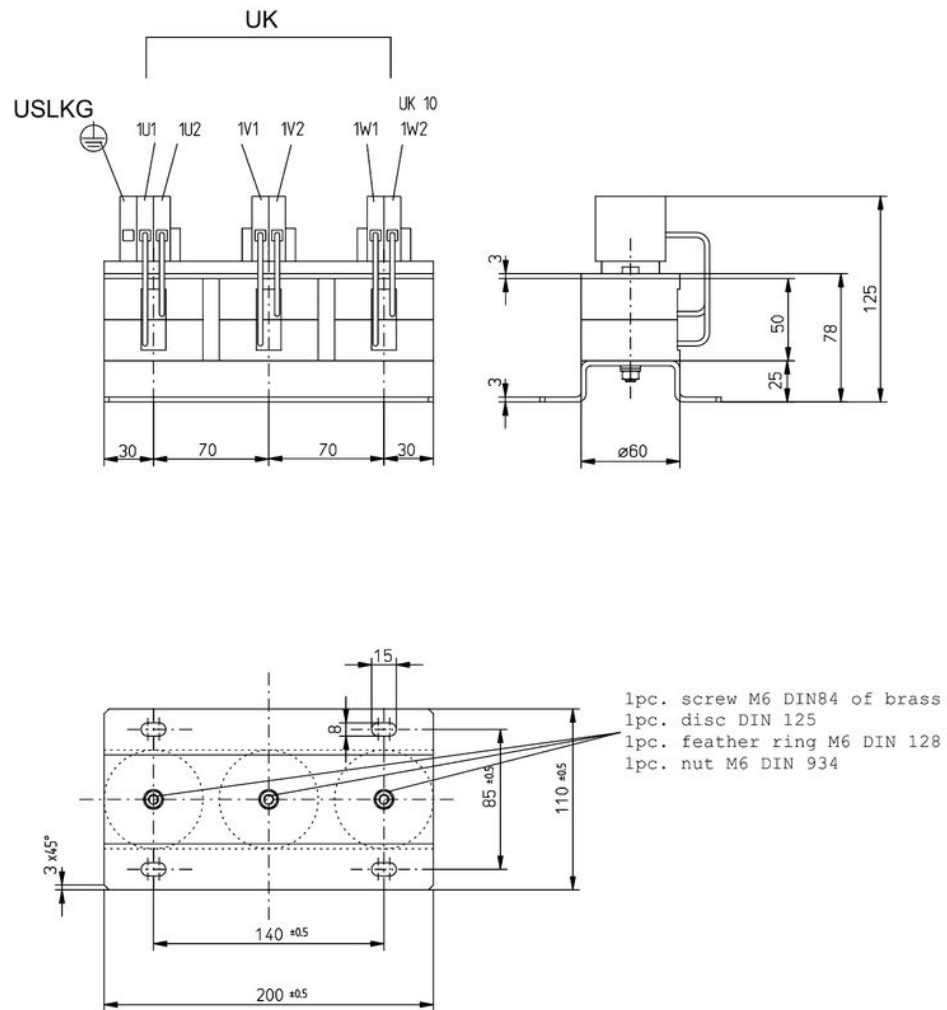


Fig. 11: Dimensions [mm] of the choke module 13015552: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

14 Choke Module 13015554

14.1 Technical Data

Choke	13015554
Rated current I_n	16 A _{rms}
Inductance L (branch)	200 µH ±10% at 16 A
Peak current I_{max}	44 A _{rms}
Max. ripple current I_{pp} (delta I)	3.2 App
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	up to 30 kHz
Max. ambient temperature T_u	50 °C
Surface temperature T_o at T_u	100 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight	4.8 kg
IP code	IP00

Connector	UK 10 ⁽¹⁾
Connector type	Through terminal
Connection method	Screw connection
Max. conductor cross section (solid)	16 mm ²
Max. conductor cross section (stranded)	10 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	USLKG 10 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	10 mm ²
Max. conductor cross section (stranded)	6 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

14.2 Dimensions

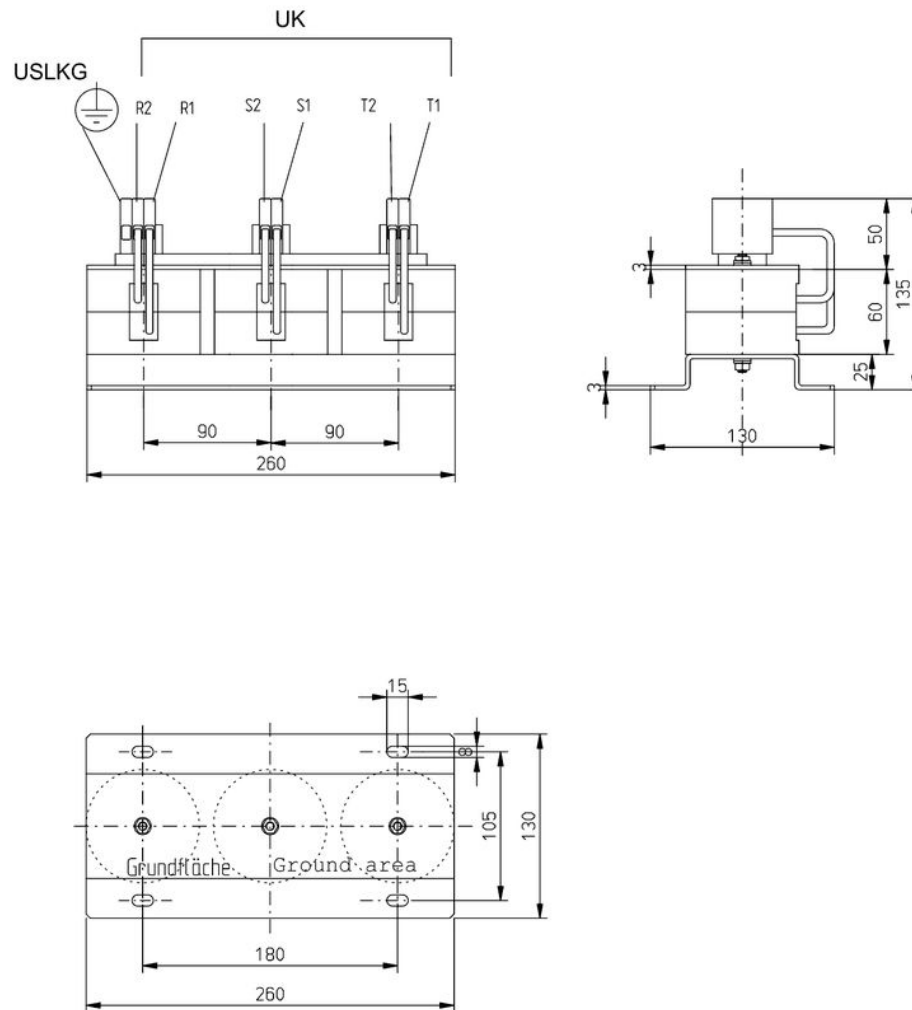


Fig. 12: Dimensions in mm (inch) of the choke module 13015554: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

15 Choke Module 13015559

15.1 Technical Data

Choke	13015559
Rated current I_n	30 A _{rms}
Inductance L (branch)	200 µH ±10% at 30 A
Peak current I_{max}	85 A _{rms}
Max. ripple current I_{pp} (delta I)	6 App
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	up to 30 kHz
Max. ambient temperature T_u	50 °C
Surface temperature T_o at T_u	100 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight	10.5 kg
IP code	IP00

Connector	UK 35 ⁽¹⁾
Connector type	Through terminal
Connection method	Screw connection
Max. conductor cross section (solid)	50 mm ²
Max. conductor cross section (stranded)	35 mm ²
Max. tightening torque	3.7 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	USLKG 35 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	50 mm ²
Max. conductor cross section (stranded)	35 mm ²
Max. tightening torque	3.7 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

15.2 Dimensions

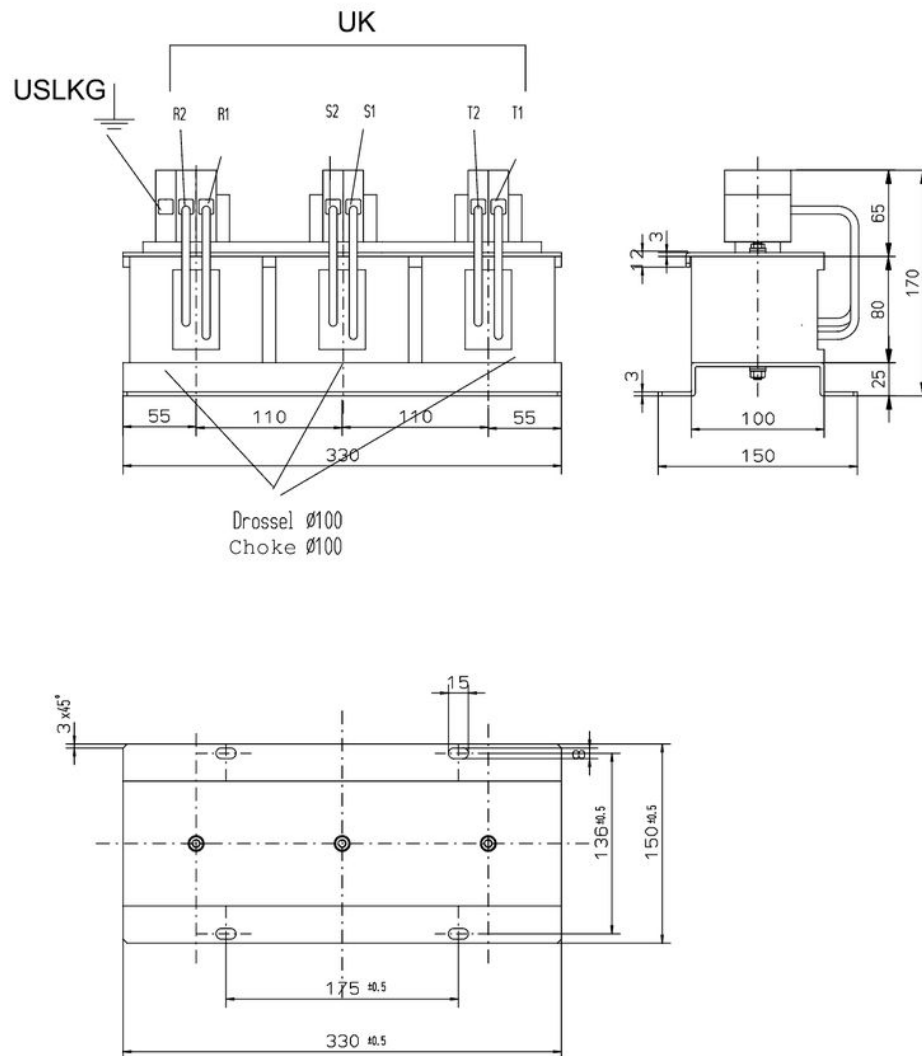


Fig. 13: Dimensions in mm (inch) of the choke module 13015559: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

16 Choke Module 13015560

16.1 Technical Data

Choke	13015560
Rated current I_n	60 A _{rms}
Inductance L (branch)	50 µH ±10% at 60 A
Peak current I_{max}	170 A _{rms}
Max. ripple current I_{pp} (delta I)	12 A _{pp}
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	up to 30 kHz
Max. ambient temperature T_u	50 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight	10.5 kg
IP code	IP00

Connector	UK 35 ⁽¹⁾
Connector type	Through terminal
Connection method	Screw connection
Max. conductor cross section (solid)	50 mm ²
Max. conductor cross section (stranded)	35 mm ²
Max. tightening torque	3.7 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	USLKG 35 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	50 mm ²
Max. conductor cross section (stranded)	35 mm ²
Max. tightening torque	3.7 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

16.2 Dimensions

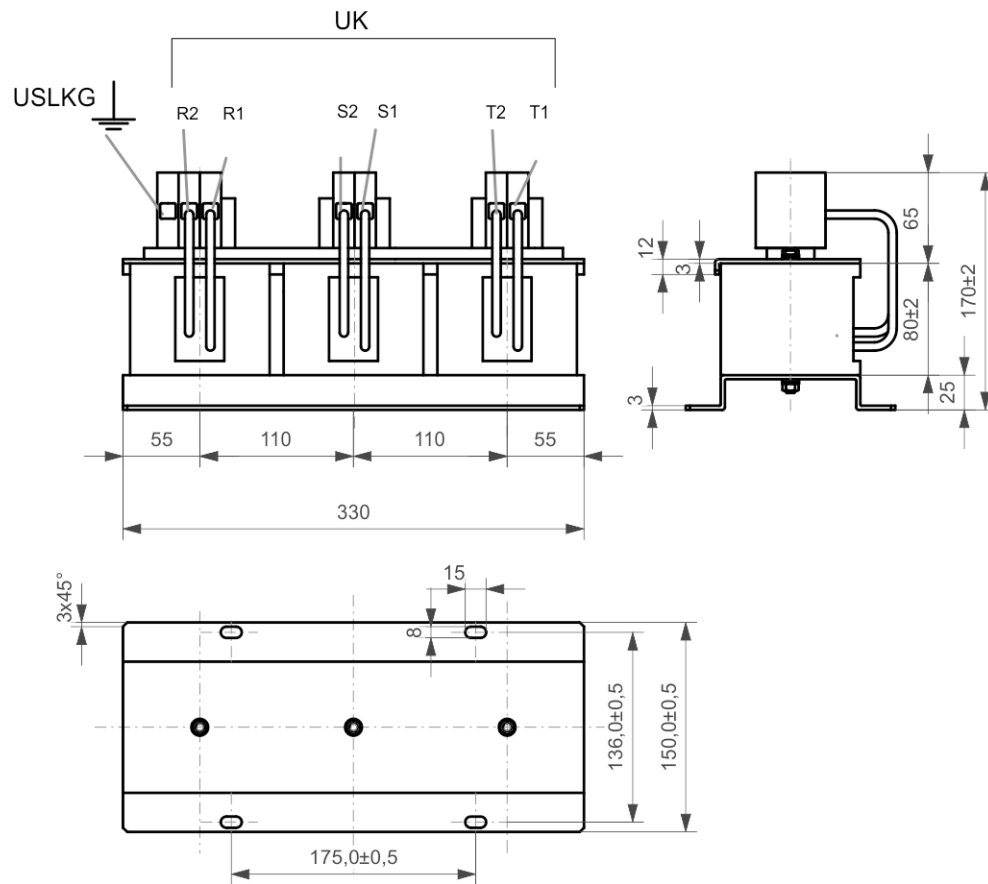


Fig. 14: Dimensions [mm] of the choke module 13015560: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

17 Choke Module 13015568

Note

SIEB & MEYER recommends replacing this choke module by one of the preferential choke modules (see [chapter 1.1 “Preferential Choke Modules”, page 6](#)).

17.1 Technical Data

Choke	13015568
Rated current I_n	14 A _{rms}
Inductance L (branch)	800 μ H $\pm$ 10% at 14 A
Peak current I_{max}	25 A _{rms}
Max. ripple current I_{pp} (ΔI)	2 App
Fundamental wave f_g	2 kHz
Current ripple frequency f_p	Up to 15 kHz
Max. ambient temperature T_u	50 °C
Surface temperature T_o at T_u	100 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight	7.33 kg
IP code	IP00

Connector	UK 5 ⁽¹⁾
Connector type	Through terminal
Connection method	Screw connection
Max. conductor cross section (solid)	6 mm ²
Max. conductor cross section (stranded)	4 mm ²
Max. tightening torque	0.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	USLKG 5 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	6 mm ²
Max. conductor cross section (stranded)	4 mm ²
Max. tightening torque	0.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

17.2 Dimensions

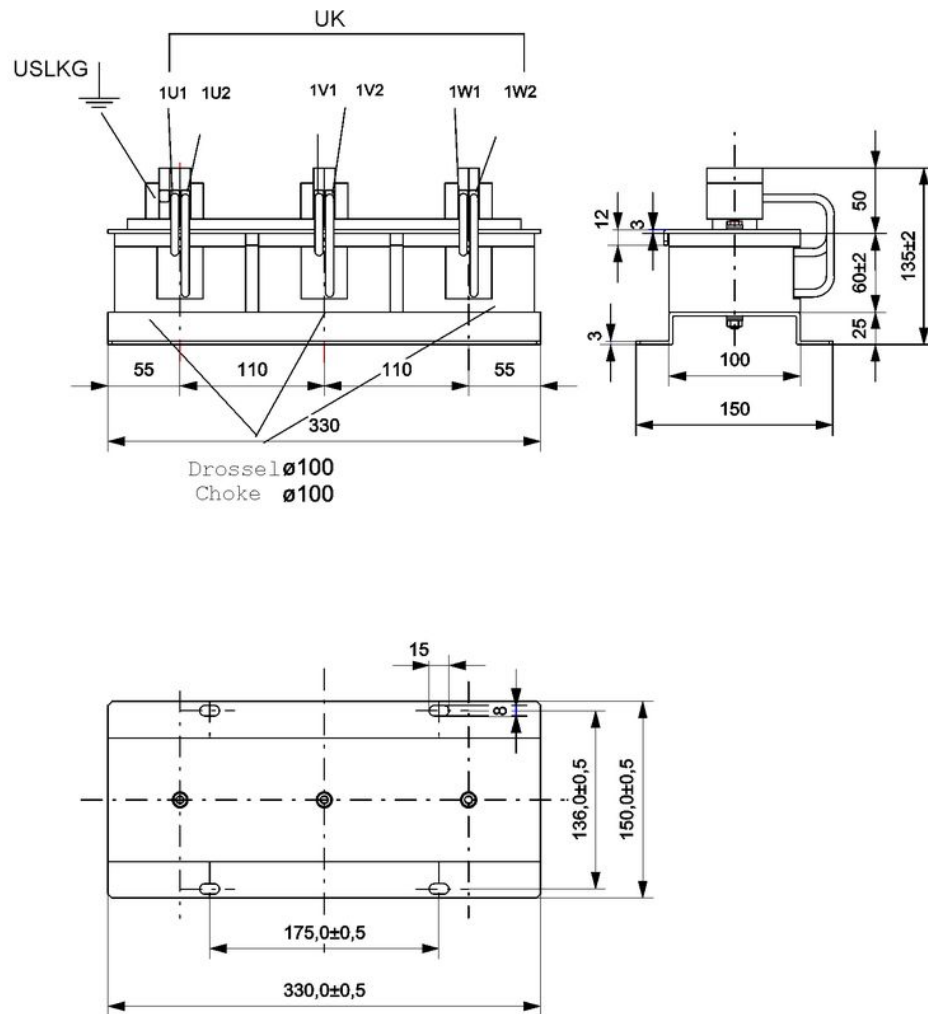


Fig. 15: Dimensions [mm] of the choke module 13015568: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

18 Choke Module 13015600

18.1 Technical Data

Choke	13015600
Rated current I_n	300 A _{rms}
Inductance L (branch)	30 µH ±10% at 300 A _{rms}
Peak current I_{max} (min.)	600 A _{rms}
Ripple current (at 16 kHz)	2.5 A _{rms}
Fundamental wave f_g	1 kHz
Current ripple frequency f_p	Up to 16 kHz
Ambient temperature T_u	-10 to +40 °C
Surface temperature T_o at max. T_u	110 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight (net)	41 kg
Aluminum weight	3.8 kg
IP Code	IP00

Connector	
Inputs/outputs (U, V, W)	Copper bar with drill hole for screw M8
PE terminal	Screw M8

18.2 Dimensions

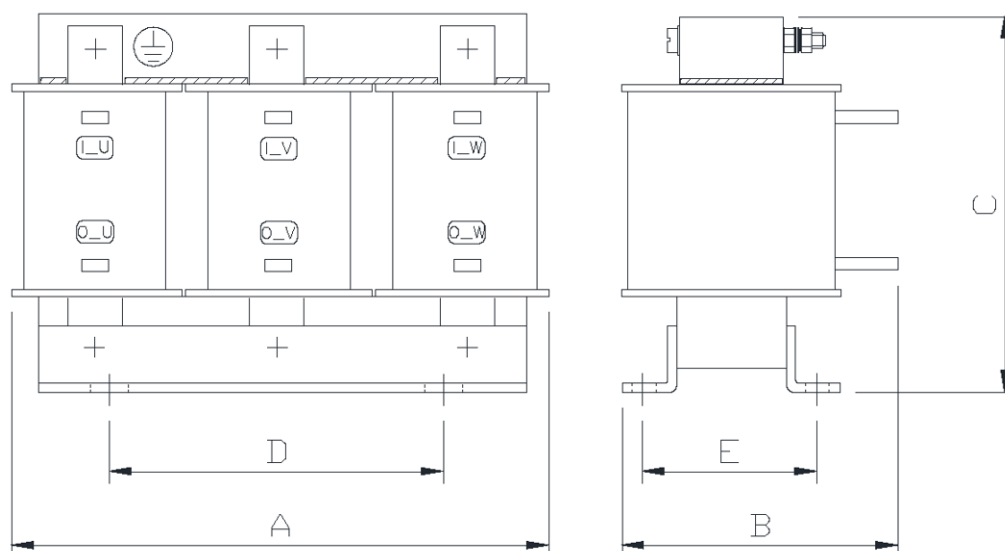


Fig. 16: Dimensions [mm] of the choke module 13015600: free dimension tolerance DIN ISO 2768-c, bent across the direction of rolling

13015600	
Dimensions	A × B × C = 300 × 162 × 267 mm
Fixing dimensions	D × E = 224 × 134 mm
Fastening screws	4 × M8

19 Choke Module 13015601

19.1 Technical Data

Choke	13015601
Rated current I_n	54 A _{rms}
Inductance L (branch)	250 µH ±10 % at 54 A
Peak current I_{max}	62 A _{rms}
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	Up to 32 kHz
Max. ambient temperature T_u	55 °C
Surface temperature T_o at T_u	>100 °C
Test voltage V_p , rms	5 kV _{AC} 5 s
Weight approx.	16.5 kg
Insulation class	F
Protection class	I
IP Code	IPxxB (finger-safe)

Connector	WDU 35 ⁽¹⁾
Connector type	Through terminal
Connection method	Screw connection
Max. conductor cross section solid	16 mm ²
Max. conductor cross-section stranded	50 mm ²
Max. tightening torque	5 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.weidmueller.com)

19.2 Dimensions

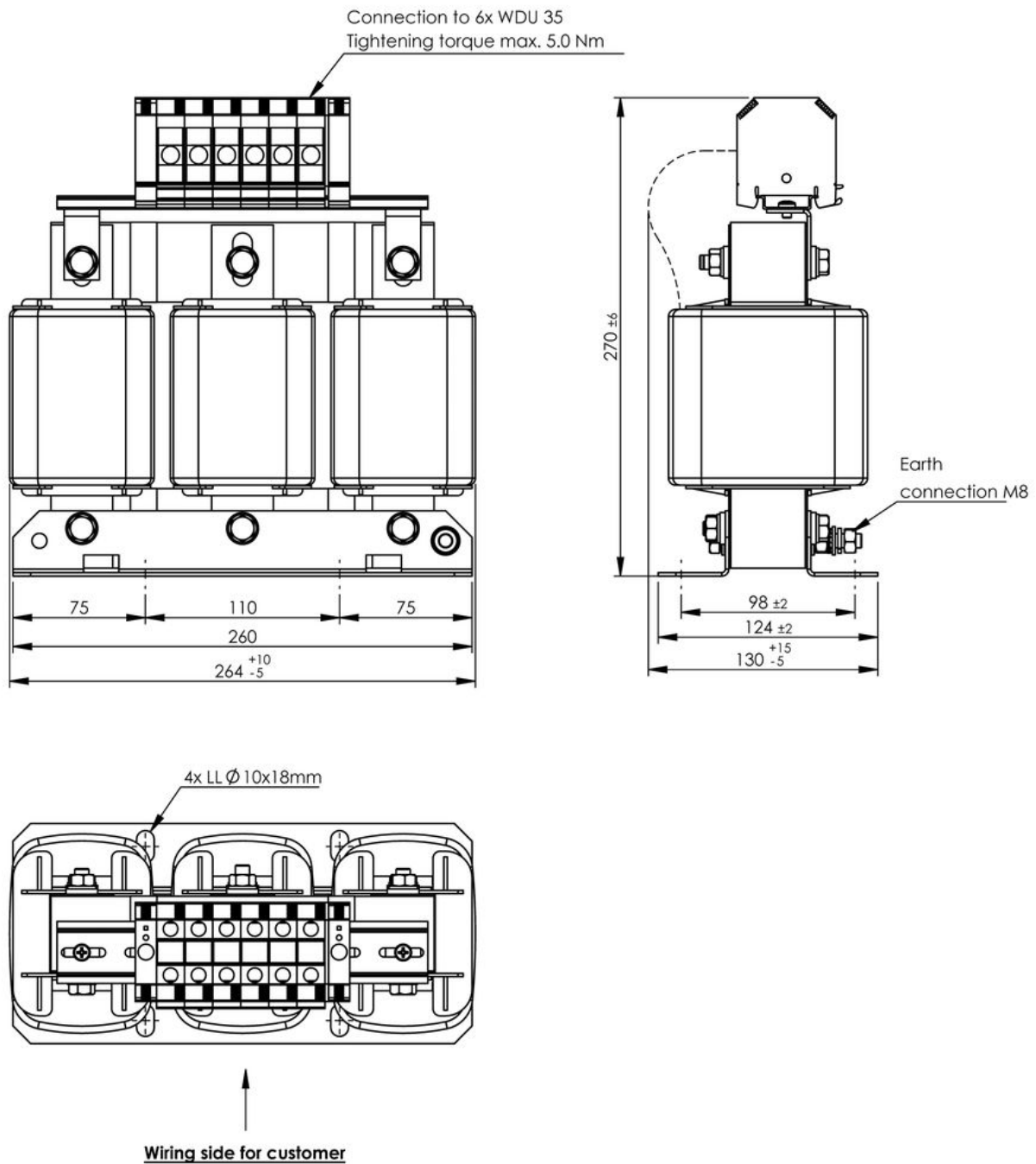


Fig. 17: Dimensions [mm] of the choke module 13015601

20 Choke Module 13015604

20.1 Technical Data

Choke	13015604
Rated current I_n	29 A _{rms}
Inductance L (branch)	400 μ H $\pm$ 10% at 29 A
Peak current I_{max}	50 A _{rms}
Max. ripple current I_{pp} (ΔI)	14 A _{pp}
Fundamental wave f_g	2 kHz
Current ripple frequency f_p	Up to 32 kHz
Max. ambient temperature T_u	55 °C
Surface temperature T_o at T_u	>100 °C
Test voltage V_p , rms	5 kV _{AC} 5 s
Weight	9.45 kg
IP code	IP00
Certifications	UL insulation system (File No. E181051)

Connector	WDU 10 ⁽¹⁾
Connector type	Through terminal
Connection method	Screw connection
Max. conductor cross-section solid/stranded	16 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.weidmueller.com)

20.2 Dimensions

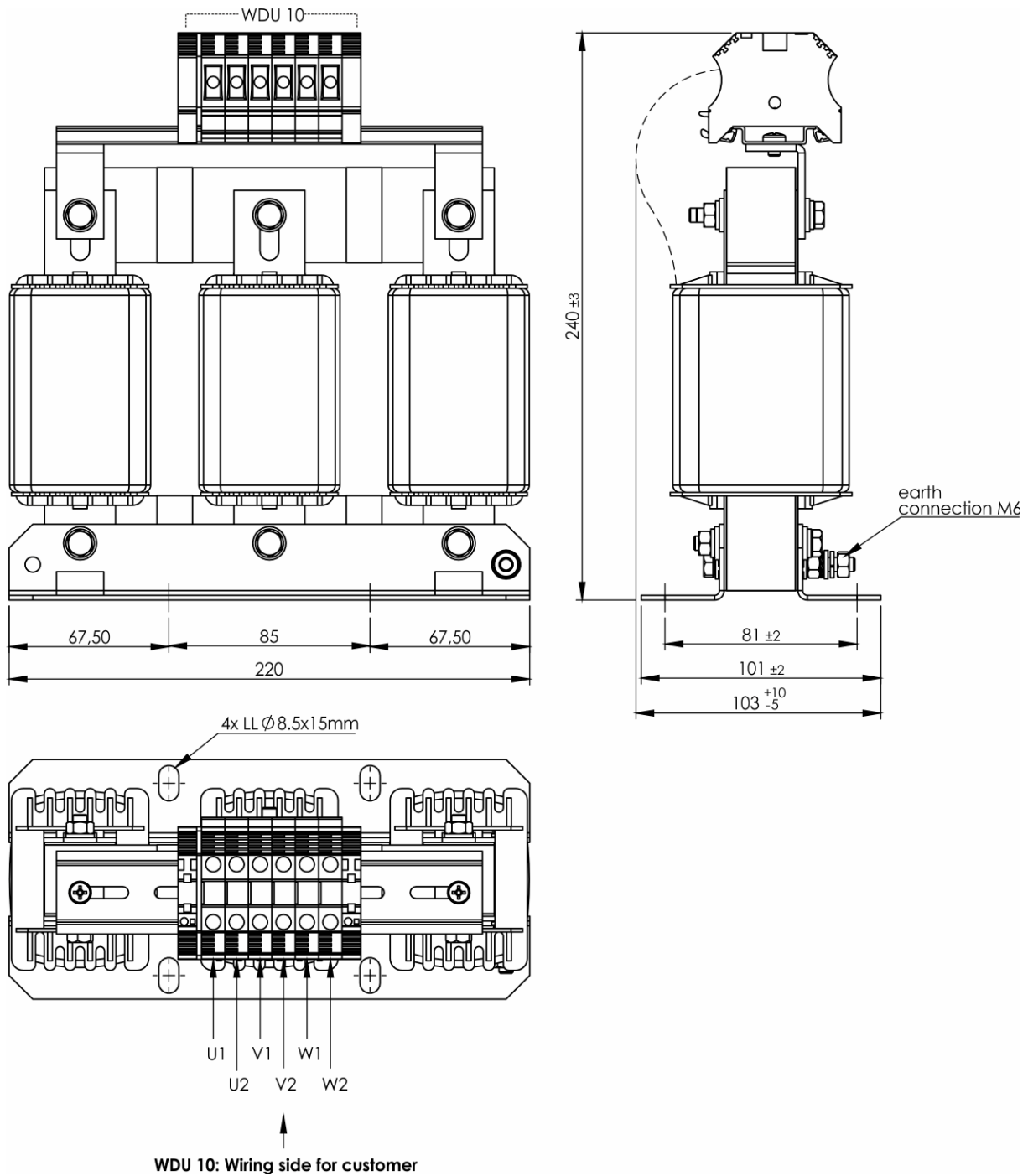


Fig. 18: Dimensions [mm] of the choke module 13015604

21 Choke Module 13015606

21.1 Technical Data

Choke	13015606
Rated current I_n	80 A _{rms}
Inductance L (branch)	200 µH ±10 % at 80 A
Peak current I_{max}	90 A _{rms}
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	Up to 32 kHz
Max. ambient temperature T_u	55 °C
Surface temperature T_o at T_u	>100 °C
Test voltage V_p , rms	5 kV _{AC} 5 s
Weight approx.	31 kg
Insulation class	F
Protection class	I
IP Code	IPxxB (finger-safe)

Connector	WDU 50N ⁽¹⁾
Connector type	Through terminal
Connection method	Screw connection
Max. conductor cross section solid	16 mm ²
Max. conductor cross-section stranded	70 mm ²
Max. tightening torque	6 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.weidmueller.com)

21.2 Dimensions

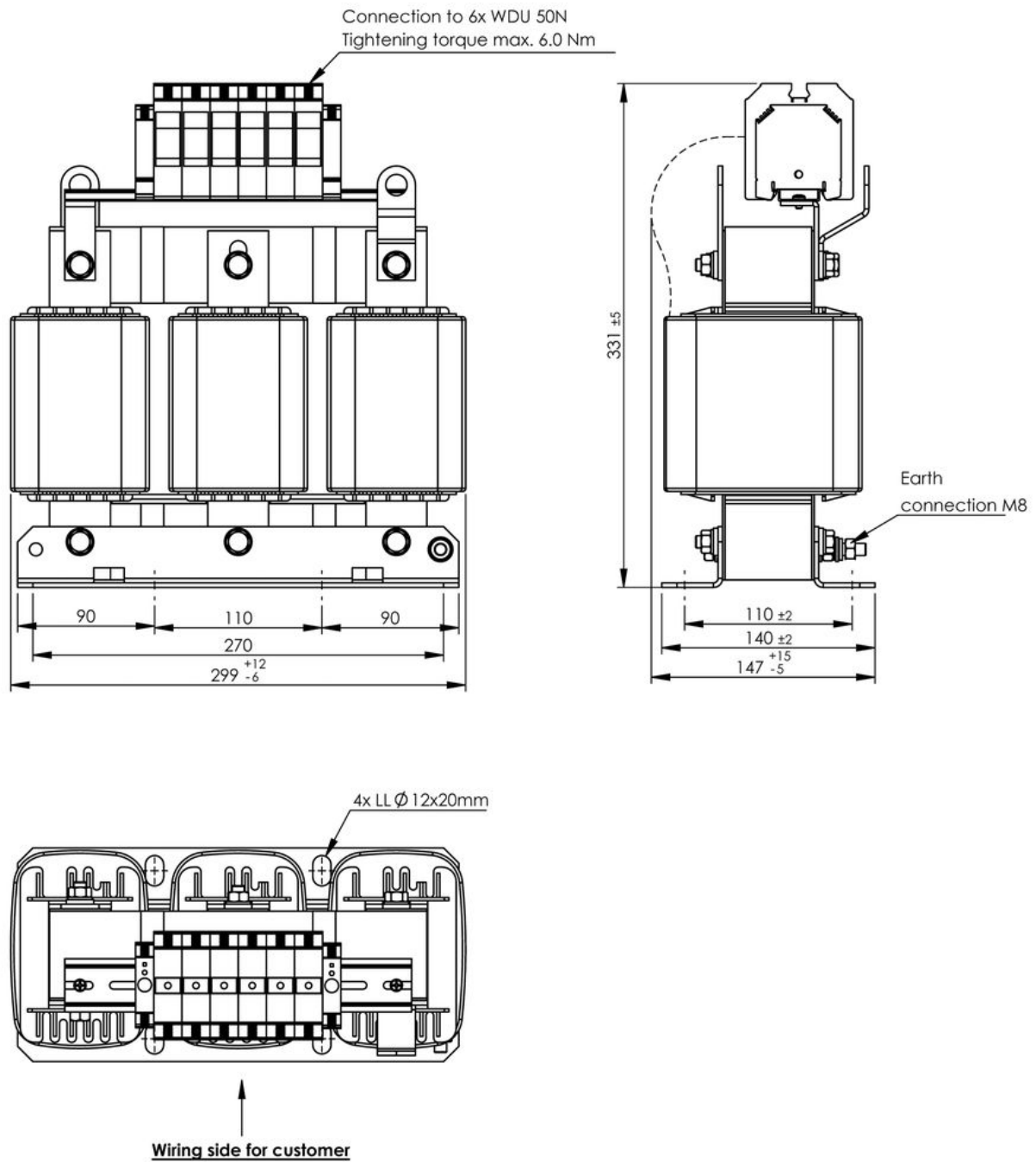


Fig. 19: Dimensions [mm] of the choke module 13015606

22 Choke Module 13015607

22.1 Technical Data

Choke	13015607
Rated current I_n	44 A _{rms}
Inductance L (branch)	300 µH ±10 % at 44 A
Peak current I_{max}	70 A _{rms}
Fundamental wave fg	2 kHz
Current ripple frequency fp	Up to 32 kHz
Max. ambient temperature Tu	55 °C
Surface temperature To at Tu	>100 °C
Test voltage Vp, rms	5 kV _{AC} 5 s
Weight approx.	19.5 kg
IP code	IP00

Connector	WPE 35 ⁽¹⁾	WDU 35 ⁽¹⁾	WDU 2,5 ⁽¹⁾
Connector type	Through terminal	Through terminal	Through terminal
Connection method	Screw connection	Screw connection	Screw connection
Max. conductor cross section solid	16 mm ²	16 mm ²	4 mm ²
Max. conductor cross-section stranded	35 mm ²	50 mm ²	4 mm ²
Max. tightening torque	5 Nm	5 Nm	0.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.weidmueller.com)

22.2 Dimensions

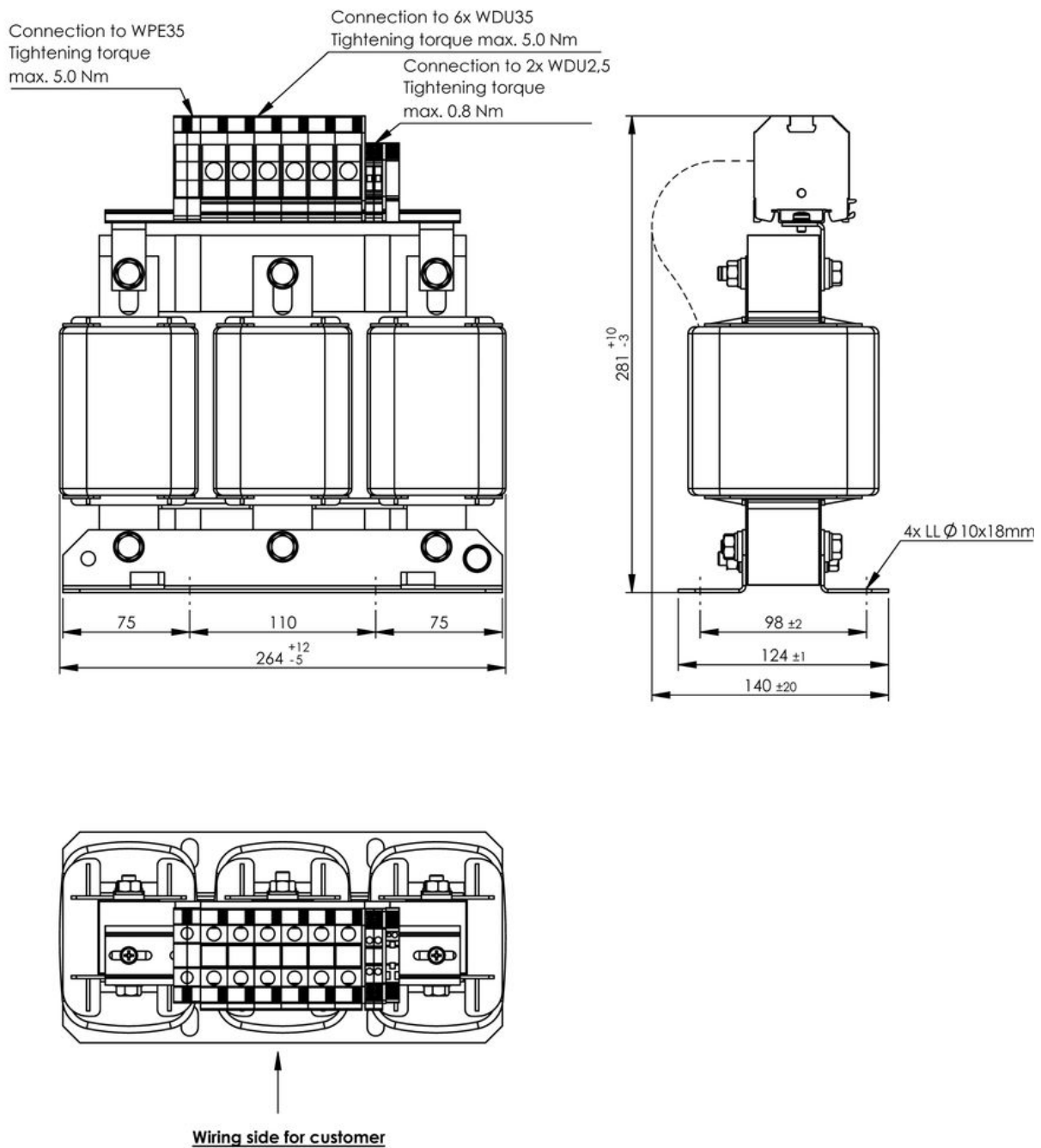


Fig. 20: Dimensions [mm] of the choke module 13015607

23 Choke Module 13015610

23.1 Technical Data

Choke	13015610
Rated current I_n	140 A _{rms}
Inductance L (branch)	400 µH ±10 % at 140 A
Peak current I_{max}	210 A _{rms}
Fundamental wave f_g	1 kHz
Current ripple frequency f_p	Up to 32 kHz
Max. ambient temperature T_u	40 °C
Surface temperature T_o at T_u	>100 °C
Test voltage V_p , rms	5 kV _{AC} 5 s
Weight	55 kg
Insulation class	F
Protection class	I
IP Code	IP00 PD2
Certifications	UL insulation system (File No. E181051)

Water cooling ⁽¹⁾	
Connector	G1/2"
Max. inlet temperature	55 °C
Operating pressure	approx. 4 bar
Flow rate	approx. 6 to 8 l/min

⁽¹⁾ More information on water cooling: see [chapter 2.3 "Chokes with Water Cooling". page 9](#)

Connector	Ground	Motor phases
Connector type	Ground terminal	Through terminal
Connection method	Screw connection	Screw connection
Max. conductor cross-section solid/stranded	50 mm ²	70 mm ²
Max. tightening torque	4 to 5 Nm	8 to 12 Nm

23.2 Dimensions

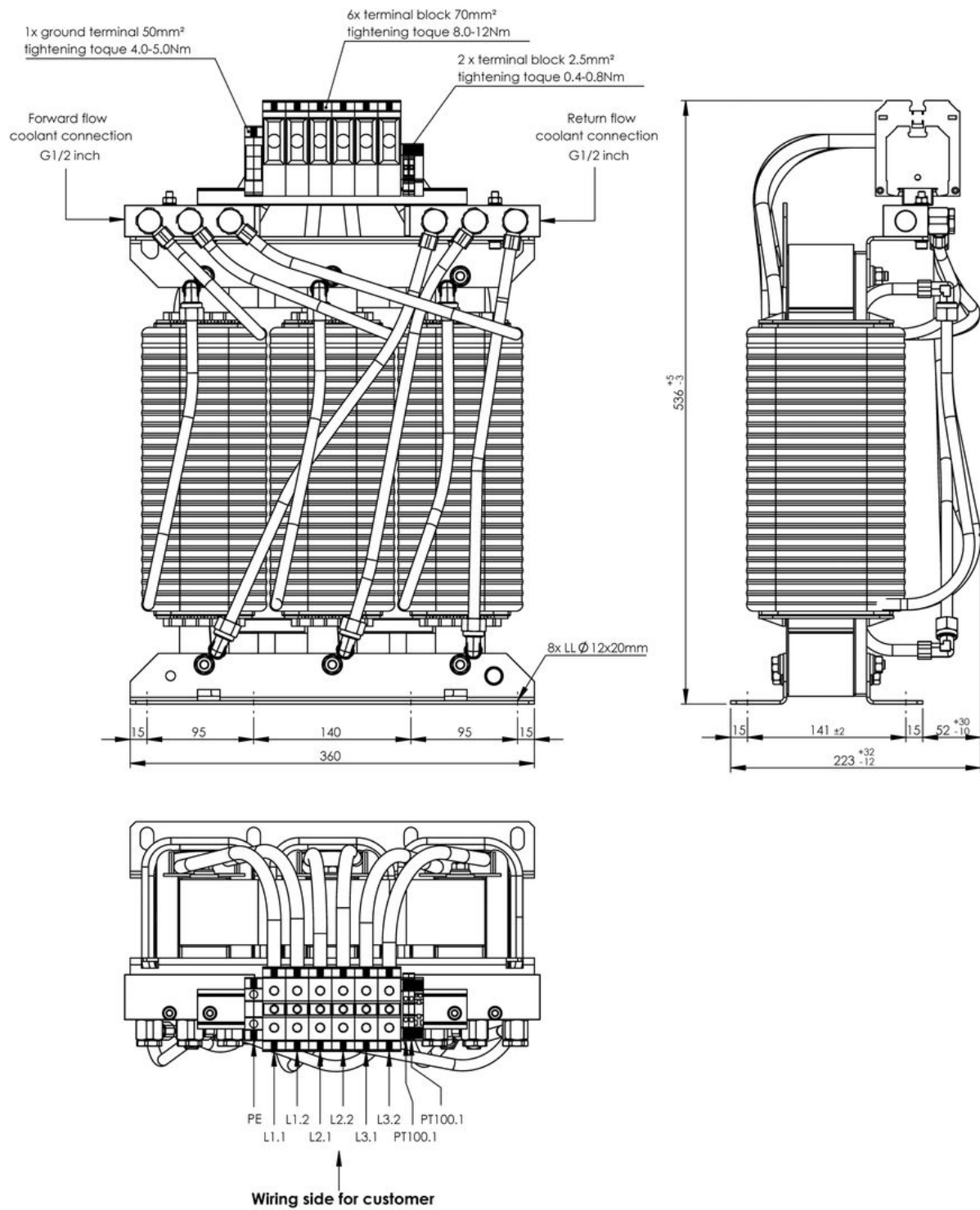


Fig. 21: Dimensions [mm] of the choke module 13015610

24 Choke Module 13015657

24.1 Technical Data

Choke	13015657
Rated current I_n	30 A _{rms}
Inductance L (branch)	50 µH ±10 % at 30 A
Peak current I_{max}	85 A _{rms}
Fundamental wave fg	1.5 kHz
Current ripple frequency fp	Up to 32 kHz
Max. ambient temperature Tu	55 °C
Surface temperature To at Tu	>100 °C
Test voltage Vp, rms	5 kV _{AC} 5 s
Weight approx.	3.5 kg
Insulation class	F
Protection class	I
IP Code	IPxxB (finger-safe)

Connector	TRKSD 10 ⁽¹⁾
Connector type	Double terminal
Connection method	Screw connection
Max. conductor cross section (solid)	16 mm ²
Max. conductor cross section (stranded)	10 mm ²
Max. tightening torque	1.8 Nm

⁽¹⁾ Data acc. to connector manufacturer (<https://www.synflex.com>)

24.2 Dimensions

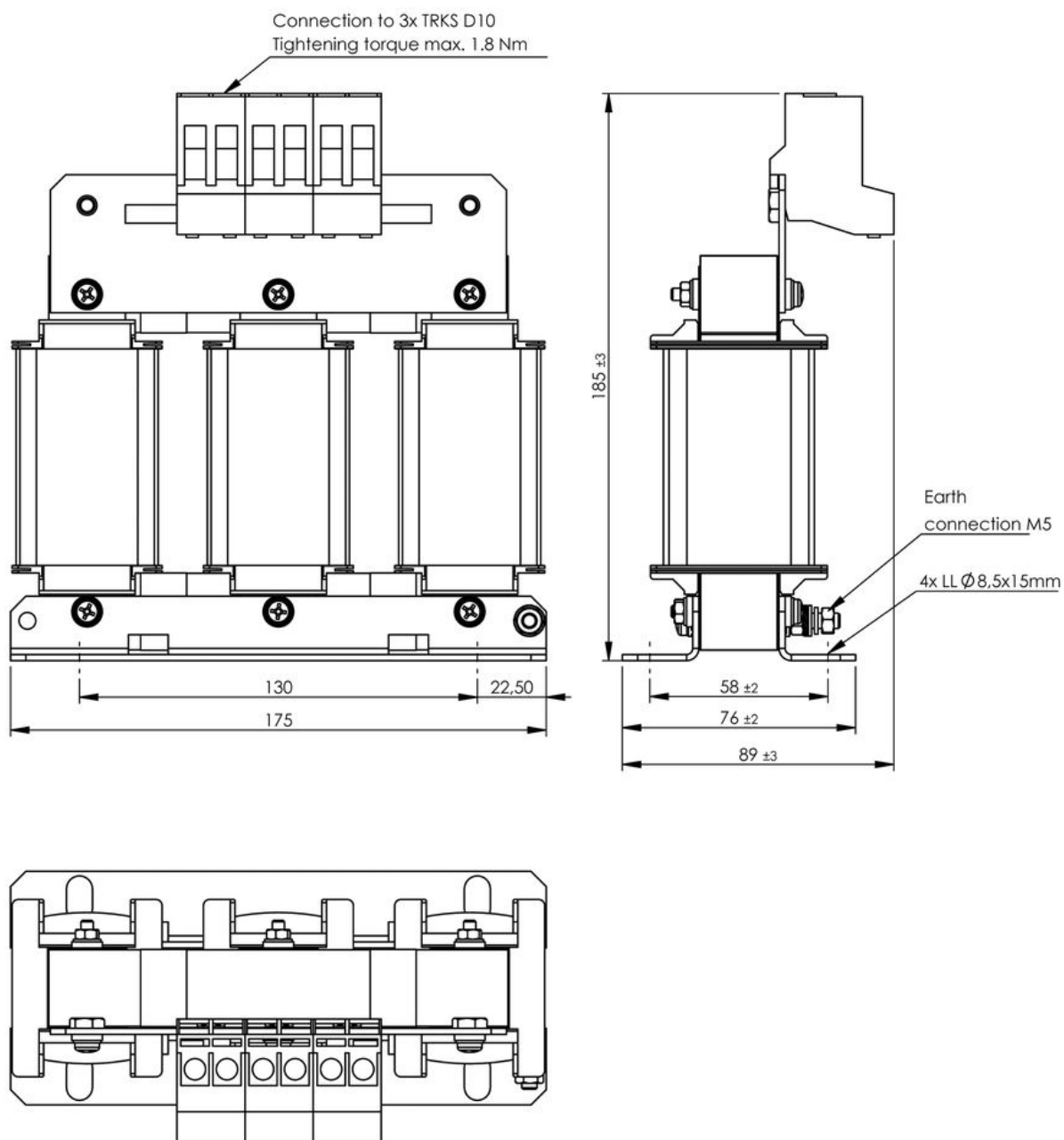


Fig. 22: Dimensions [mm] of the choke module 13015657

25 Choke Module 13015661

25.1 Technical Data

Choke	13015661
Rated current I_n	200 A _{rms}
Inductance L (branch)	50 µH ±10 % at 200 A
Peak current I_{max}	299 A _{rms} (423 A _p)
Fundamental wave f_g	1 kHz
Current ripple frequency f_p	Up to 32 kHz
Max. ambient temperature T_u	55 °C
Surface temperature T_o at T_u	>100 °C
Test voltage V_p , rms	5 kV _{AC} 5 s
Weight approx.	39 kg
Insulation class	F
Protection class	I
IP Code	IP00
Certifications	EN 61558-2-20, UL 1446/F2 (File No. E181051)
Other	▶ vacuum resin impregnation ▶ noise-optimized design

Connector	Ground: WPE 95N/120N ⁽¹⁾	Motor phases: WDU 95N/120N ⁽¹⁾
Connector type	Through terminal	Through terminal
Connection method	Screw connection	Screw connection
Max. conductor cross section solid	16 mm ²	16 mm ²
Max. conductor cross-section finely stranded with ferrules	95 mm ²	95 mm ²
Max. conductor cross-section finely stranded	120 mm ²	120 mm ²
Max. conductor cross-section stranded	150 mm ²	150 mm ²
Tightening torque	16 to 20 Nm	12 to 20 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.weidmueller.com)

25.2 Dimensions

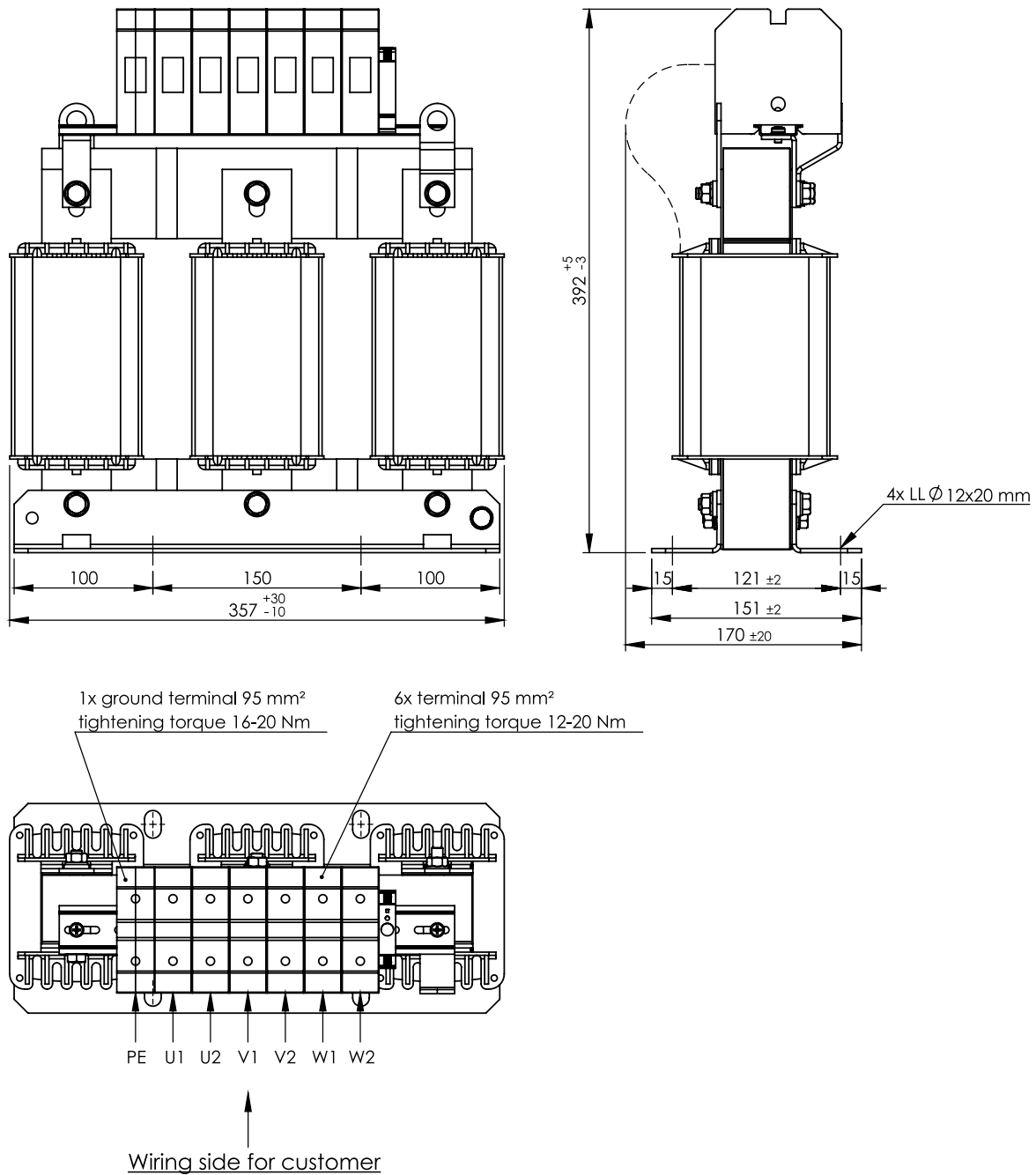


Fig. 23: Dimensions [mm] of the choke module 13015661

26 Choke Module 13015662

26.1 Technical Data

Choke	13015662
Rated current I_n	80 A _{rms}
Inductance L (branch)	100 µH ±10 % at 80 A
Peak current I_{max}	141 A _{rms} (200 A _p)
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	Up to 32 kHz
Max. ambient temperature T_u	55 °C
Surface temperature T_o at T_u	>100 °C
Test voltage V_p , rms	5 kV _{AC} 5 s
Weight approx.	15 kg
Insulation class	F
Protection class	I
IP Code	IPxxB (finger-safe)

Connector	WPE 35 ⁽¹⁾	WDU 35 ⁽¹⁾
Connector type	Through terminal	Through terminal
Connection method	Screw connection	Screw connection
Max. conductor cross section solid	16 mm ²	16 mm ²
Max. conductor cross-section stranded	35 mm ²	50 mm ²
Max. tightening torque	5 Nm	5 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.weidmueller.com)

26.2 Dimensions

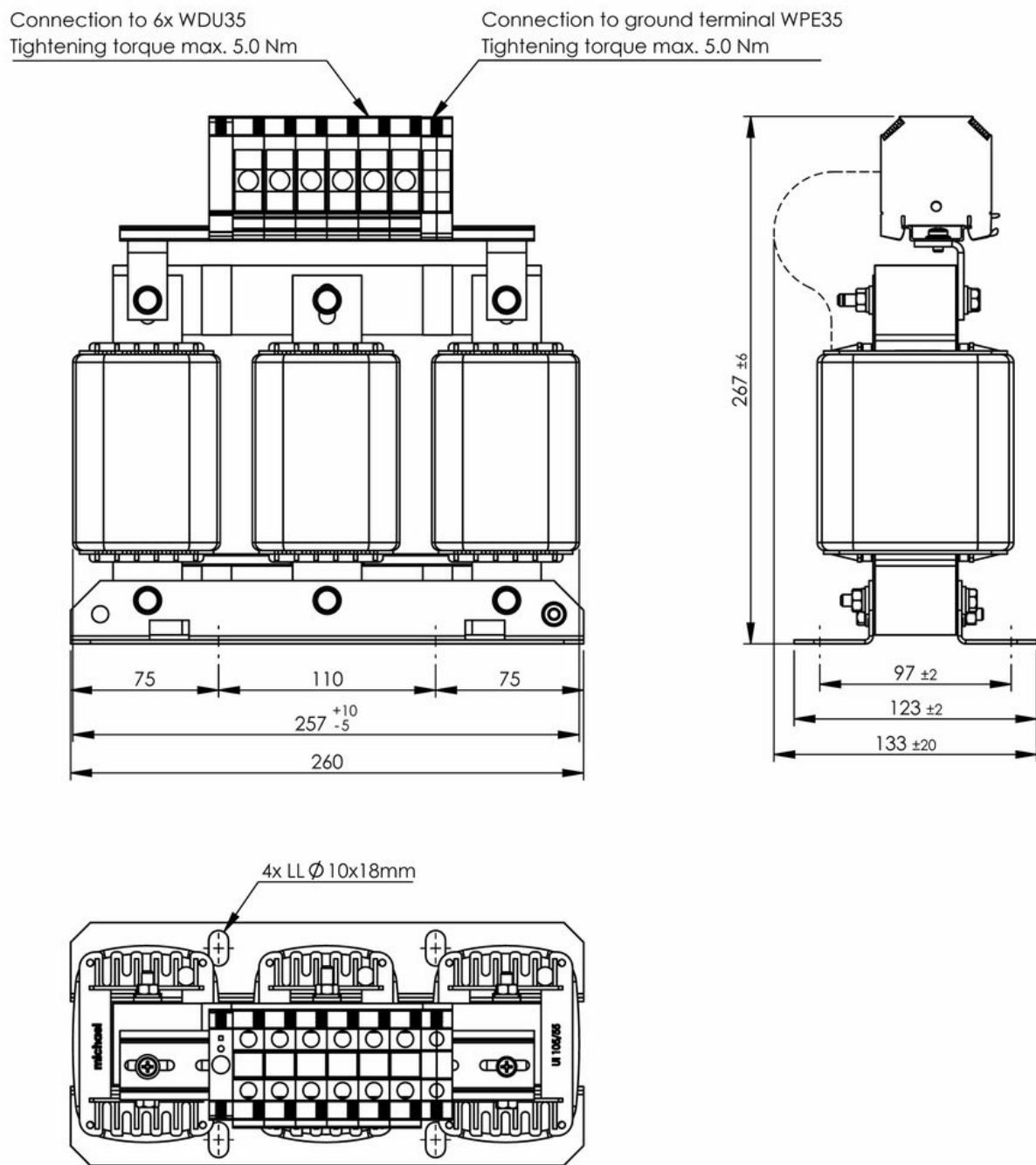


Fig. 24: Dimensions [mm] of the choke module 13015662

27 Choke Module 13015665

27.1 Technical Data

Choke	13015665
Rated current I_n	54 A _{rms}
Inductance L (branch)	150 µH ±10 % at 54 A
Peak current I_{max}	92 A _{rms} (130 A _p)
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	Up to 32 kHz
Max. ambient temperature T_u	55 °C
Surface temperature T_o at T_u	>100 °C
Test voltage V_p , rms	5 kV _{AC} 5 s
Weight approx.	12 kg
Insulation class	F
Protection class	I
IP Code	IPxxB (finger-safe)

Connector	WPE 35 ⁽¹⁾	WDU 35 ⁽¹⁾
Connector type	Through terminal	Through terminal
Connection method	Screw connection	Screw connection
Max. conductor cross section solid	16 mm ²	16 mm ²
Max. conductor cross-section stranded	35 mm ²	50 mm ²
Max. tightening torque	5 Nm	5 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.weidmueller.com)

27.2 Dimensions

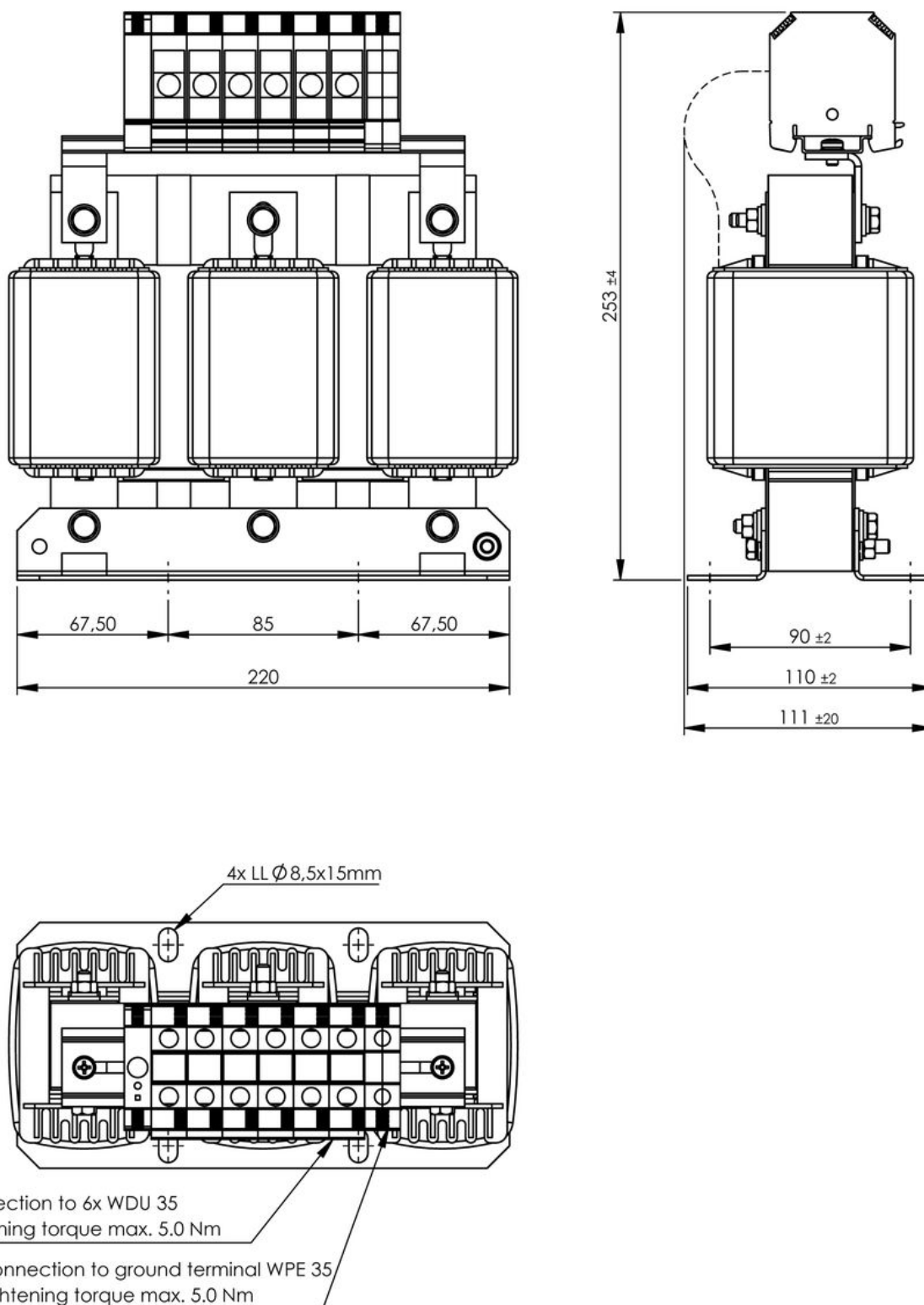


Fig. 25: Dimensions [mm] of the choke module 13015665

28 Choke Module 02171400

28.1 Technical Data

Choke	02171400
Rated current I_n	220 A _{rms}
Inductance L (branch)	100 µH ±10% at 220 A
Peak current I_{max}	350 A _{rms}
Max. ripple current I_{pp} (delta I)	68 A _{pp}
Fundamental wave f_g	1.5 kHz
Current ripple frequency f_p	up to 12 kHz
Max. ambient temperature T_u	40 °C
Surface temperature T_o at T_u	100 °C
Test voltage V_p , rms	2.5 kV _{AC} 5 s
Weight	53.5 kg
IP code	IP00

Water cooling ⁽¹⁾	
Outer diameter of cooling water tubes	10 mm
Material of cooling water tubes	Copper
Material of heat sinks	Aluminum
Max. operating pressure	6 bar
Flow rate	At least 3 l/min (parallel connection of the heat sinks)
Max. coolant temperature	45 °C

⁽¹⁾ More information on water cooling: see [chapter 2.3 "Chokes with Water Cooling", page 9](#)

Connector	UKH 95 ⁽¹⁾
Connector type	High-current terminal block
Connection method	Screw connection
Max. conductor cross section (solid)	50 mm ²
Max. conductor cross section (stranded)	95 mm ²
Max. tightening torque	20 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

Connector	USLKG 95 ⁽¹⁾
Connector type	Terminal block for protective earth connection
Connection method	Screw connection
Max. conductor cross section (solid)	50 mm ²
Max. conductor cross section (stranded)	95 mm ²
Max. tightening torque	20 Nm

⁽¹⁾ Data acc. to connector manufacturer (www.phoenixcontact.com)

28.2 Dimensions/Mounting

28.2.1 Delivered Device from June 2016 Onwards

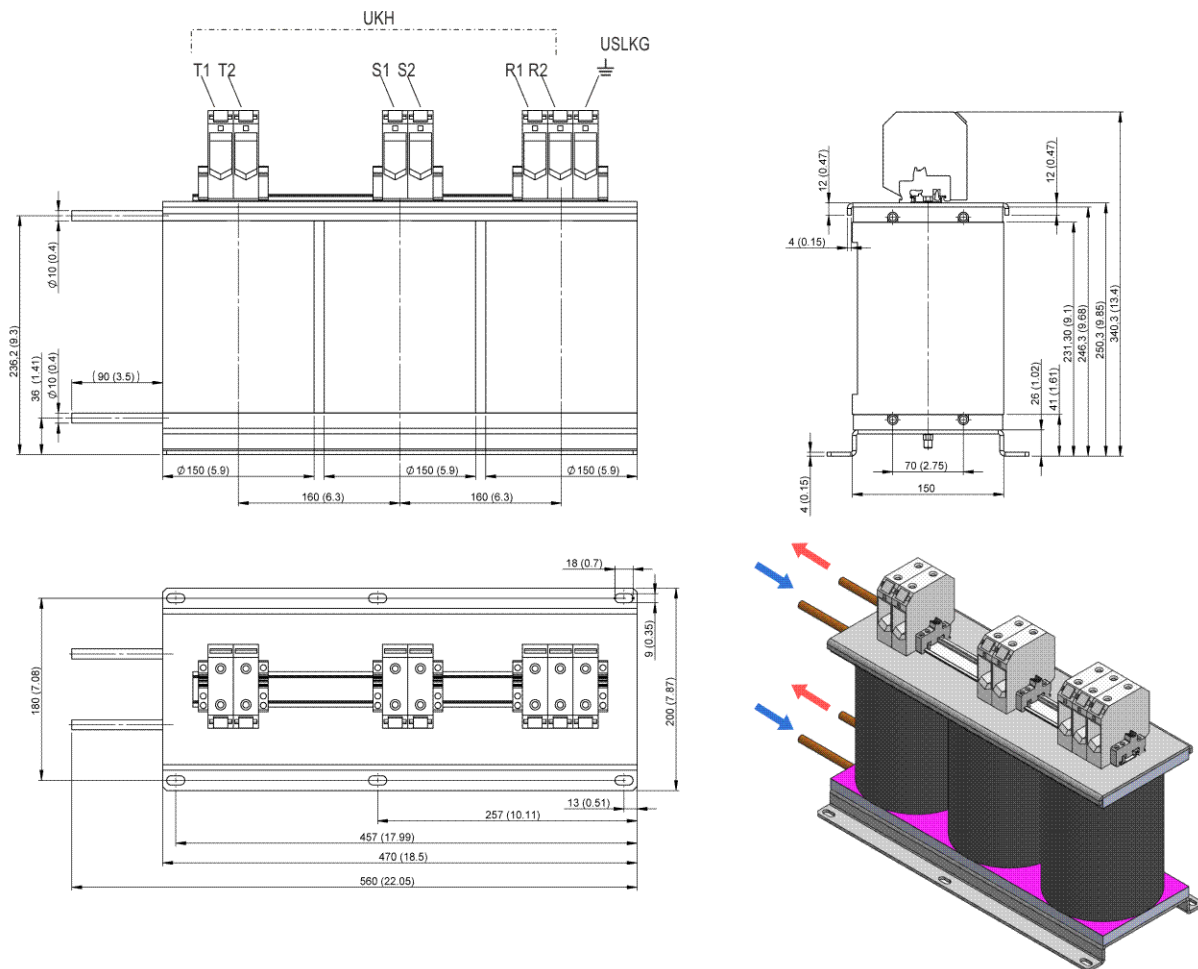


Fig. 26: Dimensions of the choke module 02171400 in mm (inch)

Note

The connection direction of the water cooling is optional, i.e. if required, you can rebuild the water-cooled heat sinks in that way that the cooling water tubes point in the opposite direction.

28.2.2 Delivered Device until May 2016

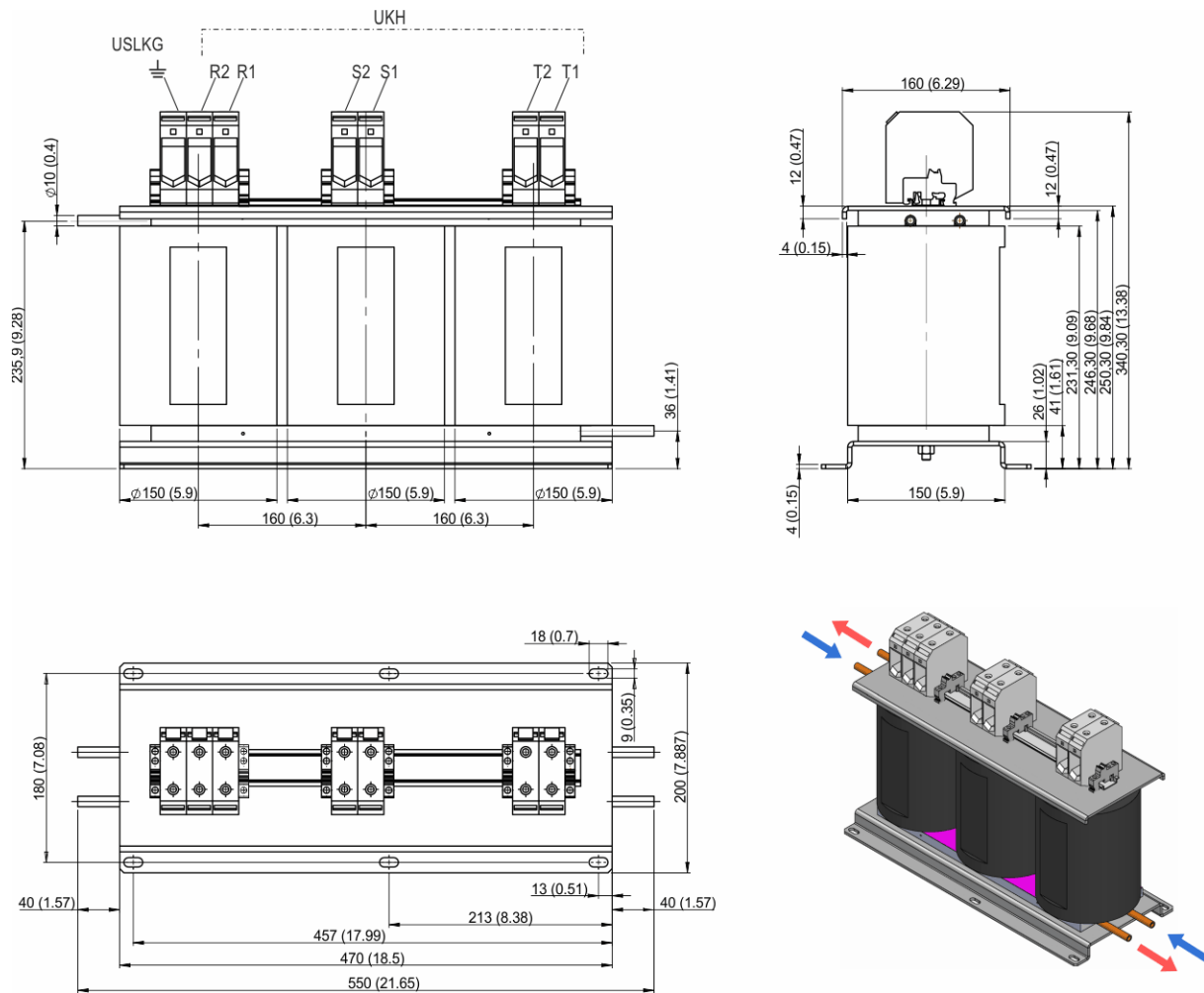


Fig. 27: Dimensions of the choke module 02171400 in mm (inch)

Note

When installing the water cooling, make sure that the water inflow and outflow is connected according to the arrows in the bottom right figure.



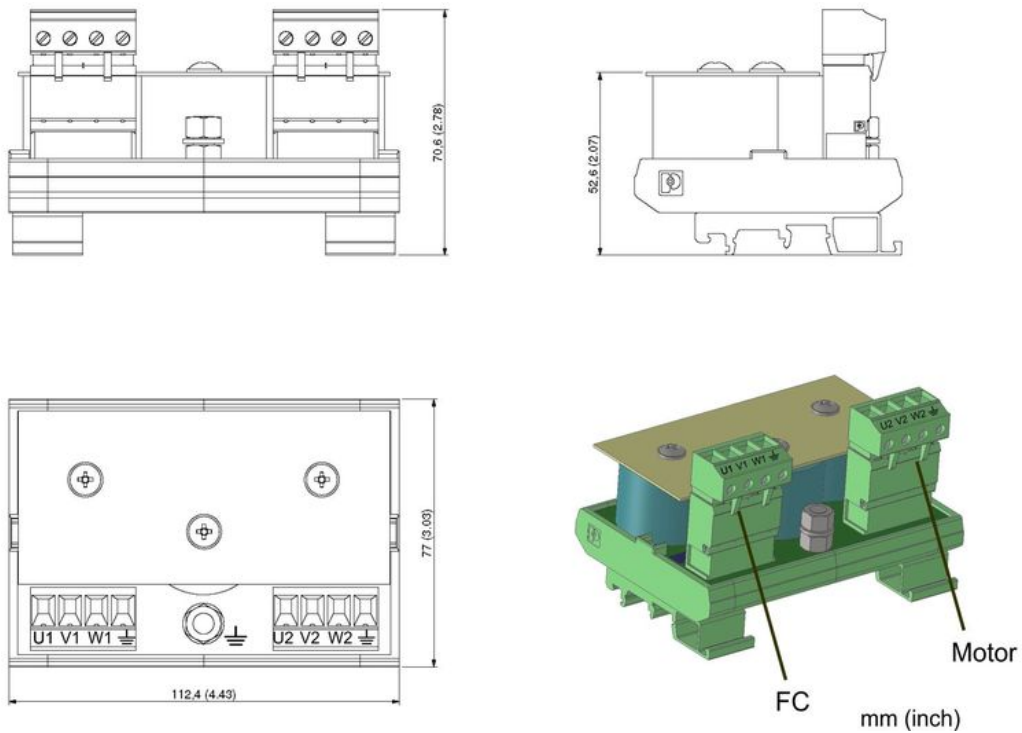
29 Choke Module 021800041

Note
SIEB & MEYER recommends replacing this choke module by one of the preferential choke modules (see [chapter 1.1 “Preferential Choke Modules”, page 6](#)).

29.1 Technical Data

021800041	Var. –	Var. A
Phase current	11 A _{rms} with forced ventilation 6 A _{rms} at max. 40 °C ambient temperature	11 A _{rms}
Inductance L (branch)	3 x 220 µH	3 x 50 µH
IP code	IP00	

29.2 Dimensions



29.3 Connection

FC		Motor	
U1	U from the FC	U2	U to the spindle
V1	V from the FC	V2	V to the spindle
W1	W from the FC	W2	W to the spindle
	of the FC		to the spindle

30 Choke Module 036210081/x

30.1 Technical Data

Choke	036210081	036210081A	036210081B
Rated current I_n	12 A _{rms}	12 A _{rms}	8 A _{rms}
Inductance L (branch)	350 µH at 25 °C 210 µH at 100 °C	220 µH at 25 °C	700 µH at 25 °C
Peak current I_{max}	12 A _{rms}	12 A _{rms}	8 A _{rms}
Fundamental wave fg	10 kHz	10 kHz	10 kHz
Max. ambient temperature T_u	40 °C	40 °C	40 °C
IP code	IP00	IP00	IP00

30.2 Dimensions

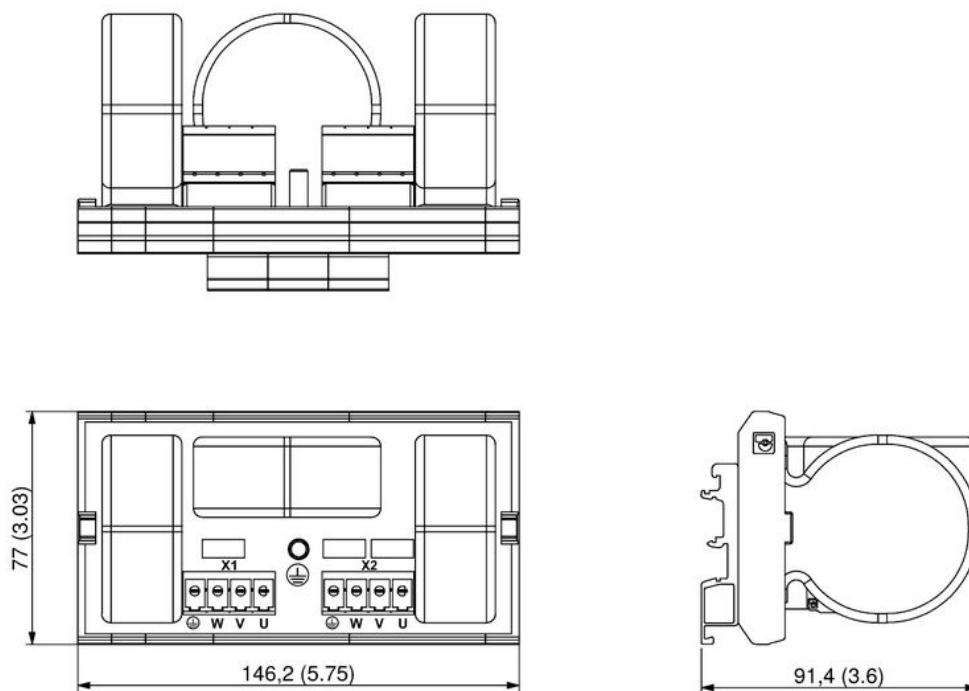


Fig. 28: Dimensions of the choke module 036210081/x in mm (inch)

30.3 Connection

2 × 4-pole Power-Combicon connector, suitable for mating connector PC 4/ 4-ST-7,62 (Phoenix)

X1 (drive)		X2 (Motor)	
U	Motor phase U	U	Motor phase U
V	Motor phase V	V	Motor phase V
W	Motor phase W	W	Motor phase W
⊕	Protective conductor	⊕	Protective conductor



Specification of terminal connections:

- ▶ Conductor cross-section solid/stranded: 1.5 to 4 mm²
- ▶ Tightening torque: 0.5 to 0.6 Nm

Note

The connectors are compatible with the devices SD2 and SD2S.

31 Choke Module 036210180/A

31.1 Technical Data

Choke	036210180	036210180A
Rated current I_n	6 A _{rms}	6 A _{rms}
Inductance L (branch)	220 µH at 25 °C	330 µH at 20 °C
Peak current I_{max}	6 A _{rms}	6 A _{rms}
Fundamental wave fg	10 kHz	10 kHz
Max. ambient temperature T_u	40 °C	40 °C
IP code	IP00	IP00

31.2 Dimensions

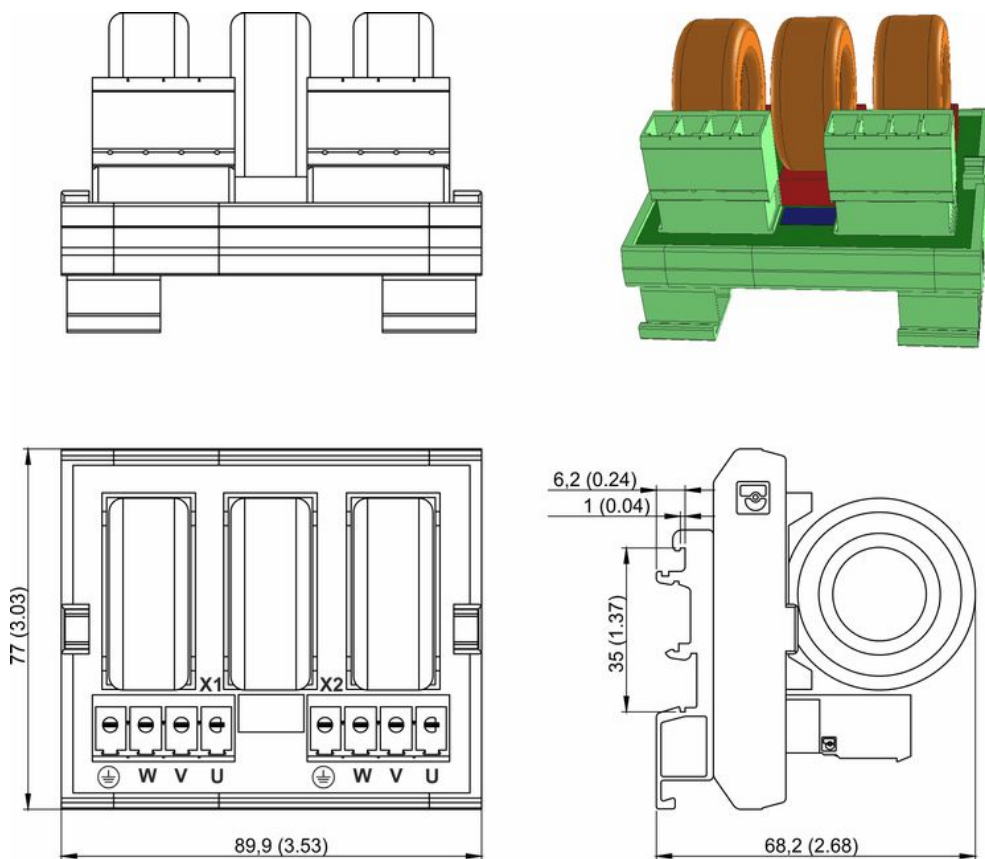


Fig. 29: Dimensions of the choke module 036210180/A in mm (inch)

31.3 Connection

2 × 4-pole Power-Combicon connector, suitable for mating connector PC 4/ 4-ST-7,62 (Phoenix)

X1 (drive)		X2 (Motor)	
U	Motor phase U	U	Motor phase U
V	Motor phase V	V	Motor phase V

X1 (drive)		X2 (Motor)	
W	Motor phase W	W	Motor phase W
	Protective conductor		Protective conductor

Specification of terminal connections:

- ▶ Conductor cross-section solid/stranded: 1.5 to 4 mm²
- ▶ Tightening torque: 0.5 to 0.6 Nm

Note

The connectors are compatible with the devices SD2 and SD2S.



Index

A

Article numbers

02171400 [59](#)
021800041 [62](#)
036210081 [63](#)
036210081A [63](#)
036210081B [63](#)
036210180 [65](#)
036210180A [65](#)
13015502 [11](#)
13015503 [13](#)
13015505 [15](#)
13015508 [17](#)
13015509 [19](#)
13015510 [21](#)
13015518 [23](#)
13015520 [24](#)
13015550 [26](#)
13015551 [28](#)
13015552 [30](#)
13015554 [32](#)
13015559 [34](#)
13015560 [36](#)
13015568 [38](#)
13015600 [40](#)
13015601 [41](#)
13015604 [43](#)
13015606 [45](#)
13015607 [47](#)
13015610 [49](#)
13015657 [51](#)
13015661 [53](#)
13015662 [55](#)
13015665 [57](#)

P

Preferential choke modules [6](#)

021xxxxx [7](#)
036xxxxx [7](#)

130xxxxx [6](#)

W

Water cooling [9](#)