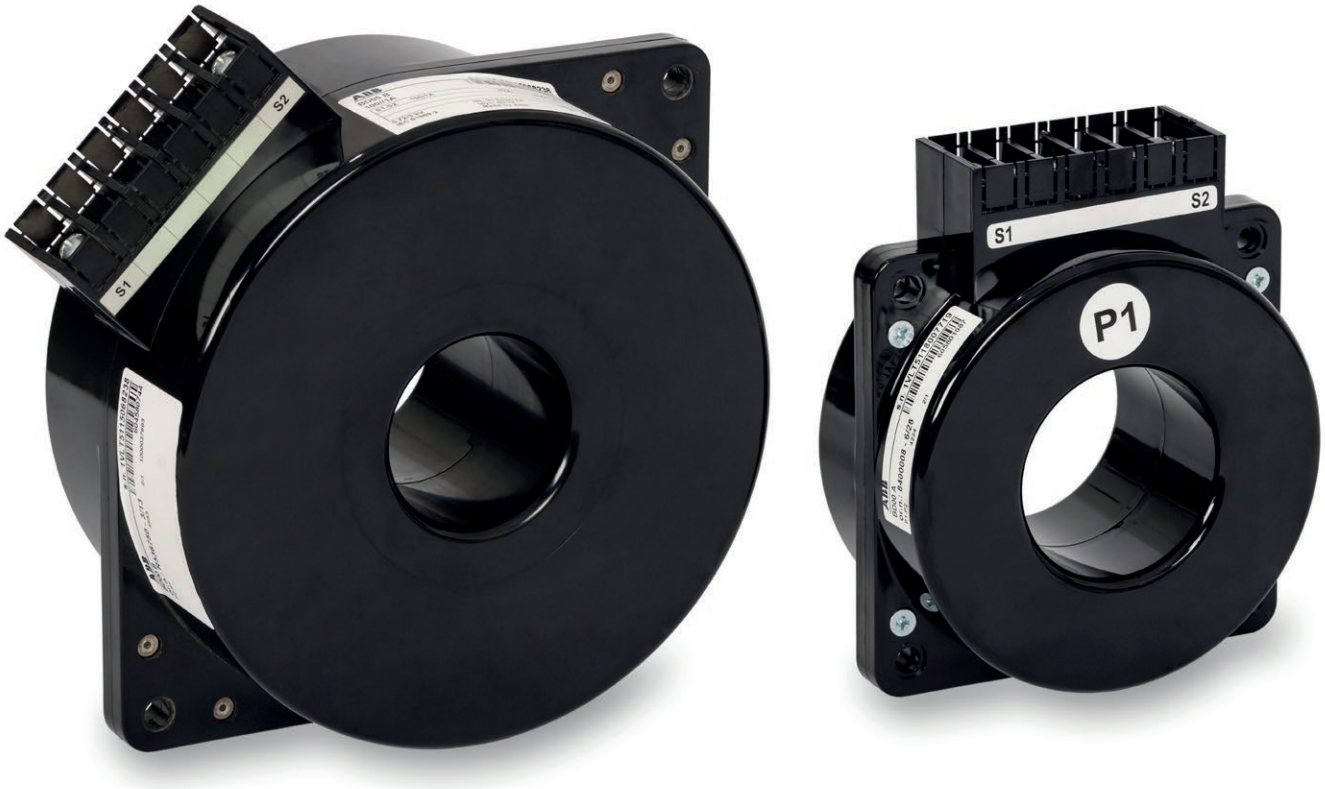
MEDIUM VOLTAGE PRODUCT

BD 00

Special current transformers



BD 00 A, BD 00 B

Technical parameters	Value
Highest voltage for equipment	0.72 kV
Power frequency test voltage, 1 min.	3 kV
Rated primary current	50 to 1 250 A
Rated short-thermal current (max)	31.5/3 kA/s
Accuracy classes	0.2; 0.2S; 0.5; 0.5S; 1; 5P; 10P
Flammability class	V0

Description

Low voltage current instrument transformer, without primary conductor. BD 00 A and BD 00 B current transformers can be assembled on the bushing with their own insulation. Transformers of this type series enable the measuring and protection and are designed for use in indoor installations. The BD 00 transformers are designed as one transformer ratio or with more ratio having the possibility to be reconnectable on the secondary side. Assembly procedure of the transformers on the bushings in Unigear 550 is exactly specifed. Two or three BD 00 A transformers can be mounted on the same bushing depending on the type of bushing that is used (long or short CT rod). Two BD 00 B transformers can be mounted only on one type of the bushing (long CT rod) in triangle position. All the transformers meet the specifcations of relevant standards, i.e. the IEC, GOST.

Technical parameters

Highest voltage for equipment, U_m: 0.72 kV
Power frequency test voltage, 1 min.: 3 kV

BD 00 A and BD 00 B current transformers are designed for ABB switchgear type Unigear 550 and have the following dimensions:

Dimensions

BD 00	[mm]	
	Type B	Type A
	50 - 200 A	250 -1 250 A
Inner diameter of ring CTs	59	69
Outer diameter of ring CT	200	147
Height of ring CT	100	75

BD 00 C

Technical parameters	Value
Highest voltage for equipment	0.72 kV
Power frequency test voltage, 1 min.	3 kV
Rated primary current	100 to 1 250 A
Rated short-thermal current (max)	31.5/3 kA/s
Accuracy classes	0.2; 0.2S; 0.5; 0.5S; 1; 5P; 10P
Flammability class	V0

Description

Low voltage current instrument transformer, without primary conductor. BD 00 C current transformer can be assembled on the bushing with their own insulation. Transformers of this type series enable the measuring and protection and are designed for use in indoor installations. The BD 00 transformers are designed as one transformer ratio or with more ratio having the possibility to be reconnectable on the secondary side. Assembly procedure of the transformers on the bushings in Unigear type ZS1 (24 kV variant) is exactly specified. Two BD 00 C transformers can be assembled on one type of bushing (long CT rod). All the transformers meet the specifications of relevant standards, i.e. the IEC, GOST.

Technical parameters

Highest voltage for equipment, U_m: 0.72 kV
Power frequency test voltage, 1 min.: 3 kV

BD 00 C current transformers are designed for ABB switchgear Unigear type ZS1 (24kV variant) and have the following dimensions:

Dimensions

BD 00	[mm]
	Type C
	100 - 1250 A
Inner diameter of ring CTs	85
Outer diameter of ring CT	200
Height of ring CT	100

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01 Low voltage BD 00 transformer for MV application

BD 00 low voltage transformer for MV application

Technical parameters	Value
Highest voltage for equipment	0.72 kV
Power frequency test voltage, 1 min.	3 kV
Rated primary current	100 to 1 250 A
Rated short-thermal current (max)	31.5/3 kA/s
Accuracy classes	0.2; 0.2S; 0.5; 0.5S; 1; 5P; 10P
Flammability class	V2-V0

Description

Low voltage current instrument transformer, without primary conductor. BD 00 current transformer can be assembled on the cable or on the bushing with their own insulation. Transformers of this type series enable the measuring and protection and are designed for use in indoor installations. The transformers are manufactured in conformity with dimensions stated hereunder. The customer should specify inner and outer diameters, the height of the transformer and length of the connected cables from secondary winding. The BD 00 transformers are designed for one or more transformer ratios with the possibility of being reconnectable on the secondary side. Assembly procedure of the transformers on the bushings or on the cables must be specifed by customer according to application in the pannels. Two or more BD 00 transformers can be assembled on the same bushing or cable. All the transformers meet the specifications of relevant standards, i.e. the IEC, VDE, ANSI, BS, GOST, CSN.

Technical parameters

Highest voltage for equipment, U_m: 0.72 kV
Power frequency test voltage, 1 min.: 3 kV

BD 00 current transformers for assembling into the ABB switchgear Unigear 550 type can have following dimensions:

Dimensions

BD 00	[mm]
	100 - 1 250 A
Inner diameter of ring CTs	defined by the customer
Outer diameter of ring CT	defined by the customer

Parameters in the table are suitable for UG 550 up to 630 A (630-1 250 A). Higher primary current and another diameters are on request.

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BD 00 A, BD 00 B parameters for secondary current 5A:

BD 00 B: Inner diameter 59 mm

Material Number: 1VL4600...	RATIO	1 Winding		2 Windings	
		Burden [VA]	Accuracy class	Burden [VA]	Accuracy class
302V0101	50//5*	3	1FS10	-	-
302V0102	50//5*	3	10P10	-	-
302V0103	50//5/5*	1.5	1FS10	1.5	10P10
302V0104	100//5*	3	0.5FS10	-	-
302V0105	100//5*	5	0.5FS10	-	-
302V0106	100//5*	10	0.5FS10	-	-
302V0107	100//5	3	5P10	-	-
302V0108	100//5	5	5P10	-	-
302V0109	100//5	10	5P10	-	-
302V0110	100//5/5*	1.5	0.5FS10	1.5	5P10
302V0111	100//5/5*	2.5	0.5FS10	2.5	5P10
302V0112	100//5/5*	5	0.5FS10	5	5P10
302V0113	150//5*	5	0.5FS15	-	-
302V0114	150//5*	10	0.5FS15	-	-
302V0115	150//5	5	5P10	-	-
302V0116	150//5	10	5P10	-	-
302V0117	150//5/5	2.5	0.5FS20	2.5	5P10
302V0118	150//5/5*	5	0.5FS10	5	5P10
302V0119	200//5	5	0.5FS10	-	-
302V0120	200//5	10	0.5FS10	-	-
302V0121	200//5	5	5P10	-	-
302V0122	200//5	10	5P10	-	-
302V0123	200//5/5	2.5	0.5FS10	2.5	5P10
302V0124	200//5/5	5	0.5FS10	5	5P10

* This ring core BD 00 B includes Permalloy (PY), therefore longer delivery period should be expected.

Tab. 1. BD 00 B parameters

Note:

1) Every other parameters have to be agreed with the manufacturer and will be considered on special basis.

2) Reconnectable variants are also possible, but need to be examined on special basis (according to customer's requirement and the agreement with manufacturer).

BD 00 A: Inner diameter 69 mm

Material Number: 1VL4600...	RATIO	1 Winding		2 Windings	
		Burden [VA]	Accuracy class	Burden [VA]	Accuracy class
301V0101	250//5*	5	0.5FS10	-	-
301V0102	250//5*	10	0.5FS10	-	-
301V0103	250//5	5	5P10	-	-
301V0104	250//5	10	5P10	-	-
301V0105	250//5/5	2.5	0.5FS15	2.5	5P10
301V0106	250//5/5*	5	0.5FS5	5	5P10
301V0107	300//5*	5	0.5FS10	-	-
301V0108	300//5*	10	0.5FS10	-	-
301V0109	300//5	5	5P10	-	-
301V0110	300//5	10	5P10	-	-
301V0111	300//5/5	2.5	0.5FS10	2.5	5P10
301V0112	300//5/5	5	0.5FS10	5	5P10
301V0113	400//5	5	0.5FS10	-	-
301V0114	400//5	10	0.5FS10	-	-
301V0115	400//5	5	5P10	-	-
301V0116	400//5	10	5P10	-	-
301V0117	400//5/5	2.5	0.5FS10	2.5	5P10
301V0118	400//5/5	5	0.5FS10	5	5P10
301V0119	500//5	10	0.5FS10	-	-
301V0120	500//5	15	0.5FS10	-	-
301V0121	500//5	10	5P10	-	-
301V0122	500//5	15	5P10	-	-
301V0123	500//5/5	5	0.5FS10	2.5	5P10
301V0124	500//5/5	7.5	0.5FS10	5	5P10
301V0125	600//5	10	0.5FS10	-	-
301V0126	600//5	15	0.5FS10	-	-
301V0127	600//5	10	5P10	-	-
301V0128	600//5	15	5P10	-	-
301V0129	600//5/5	5	0.5FS5	5	5P10
301V0130	600//5/5	7.5	0.5FS5	7.5	5P10
301V0131	800//5	10	0.5FS10	-	-
301V0132	800//5	15	0.5FS10	-	-
301V0133	800//5	10	5P10	-	-
301V0134	800//5	15	5P10	-	-
301V0135	800//5/5	5	0.5FS10	5	5P10
301V0136	800//5/5	7.5	0.5FS5	7.5	5P10
301V0137	1 000//5	10	0.5FS10	-	-
301V0138	1 000//5	15	0.5FS10	-	-
301V0139	1 000//5	10	5P10	-	-
301V0140	1 000//5	15	5P10	-	-
301V0141	1 000//5/5	5	0.5FS10	5	5P10
301V0142	1 000//5/5	7.5	0.5FS5	7.5	5P10
301V0143	1 250//5	10	0.5FS10	-	-
301V0144	1 250//5	15	0.5FS10	-	-
301V0145	1 250//5	10	5P10	-	-
301V0146	1 250//5	15	5P10	-	-
301V0147	1 250//5/5	5	0.5FS10	5	5P10
301V0148	1 250//5/5		0.5FS10	7.5	5P10

Tab. 2. BD 00 A parameters

BD 00 A, BD 00 B parameters for secondary current 1 A:

BD 00 B: Inner diameter 59 mm

Material Number: 1VL4600...	RATIO	1 Winding		2 Windings	
		Burden [VA]	Accuracy class	Burden [VA]	Accuracy class
302V0125	50//1*	3	1FS10	-	-
302V0126	50//1*	3	10P10	-	-
302V0127	50//1/1*	1.5	1FS10	1.5	10P10
302V0128	100//1*	3	0.5FS10	-	-
302V0129	100//1*	5	0.5FS10	-	-
302V0130	100//1*	10	0.5FS10	-	-
302V0131	100//1	3	5P10	-	-
302V0132	100//1	5	5P10	-	-
302V0133	100//1	10	5P10	-	-
302V0134	100//1/1*	1.5	0.5FS10	1.5	5P10
302V0135	100//1/1*	2.5	0.5FS10	2.5	5P10
302V0136	100//1/1*	5	0.5FS10	5	5P10
302V0137	150//1*	5	0.5FS15	-	-
302V0138	150//1*	10	0.5FS15	-	-
302V0139	150//1	5	5P10	-	-
302V0140	150//1	10	5P10	-	-
302V0141	150//1/1	2.5	0.5FS20	2.5	5P10
302V0142	150//1/1*	5	0.5FS10	5	5P10
302V0143	200//1	5	0.5FS10	-	-
302V0144	200//1	10	0.5FS10	-	-
302V0145	200//1	5	5P10	-	-
302V0146	200//1	10	5P10	-	-
302V0147	200//1/1	2.5	0.5FS10	2.5	5P10
302V0148	200//1/1	5	0.5FS10	5	5P10

* This ring core BD 00 B includes Permalloy (PY), therefore longer delivery period should be expected.

Tab. 3. BD 00 B parameters

Note:

1) Every other parameters have to be agreed with the manufacturer and will be considered on special basis.

2) Reconnectable variants are also possible, but need to be examined on special basis (according to customer's requirement and the agreement with manufacturer).

BD 00 A: Inner diameter 69 mm

Material Number: 1VL4600...	RATIO	1 Winding		2 Windings	
		Burden [VA]	Accuracy class	Burden [VA]	Accuracy class
301V0149	250//1*	5	0.5FS10	-	-
301V0150	250//1*	10	0.5FS10	-	-
301V0151	250//1	5	5P10	-	-
301V0152	250//1	10	0.5FS15	-	-
301V0153	250//1/1	2.5	0.5FS5	2.5	5P10
301V0154	250//1/1*	5	0.5FS10	5	5P10
301V0155	300//1*	5	0.5FS10	-	-
301V0156	300//1*	10	5P10	-	-
301V0157	300//1	5	5P10	-	-
301V0158	300//1	10	0.5FS10	-	-
301V0159	300//1/1	2.5	0.5FS10	2.5	5P10
301V0160	300//1/1	5	0.5FS10	5	5P10
301V0161	400//1	5	0.5FS10	-	-
301V0162	400//1	10	5P10	-	-
301V0163	400//1	5	5P10	-	-
301V0164	400//1	10	0.5FS10	-	-
301V0165	400//1/1	2.5	0.5FS10	2.5	5P10
301V0166	400//1/1	5	0.5FS10	5	5P10
301V0167	500//1	10	0.5FS10	-	-
301V0168	500//1	15	5P10	-	-
301V0169	500//1	10	5P10	-	-
301V0170	500//1	15	0.5FS10	-	-
301V0171	500//1/1	5	0.5FS10	5	5P10
301V0172	500//1/1	7.5	0.5FS10	7.5	5P10
301V0173	600//1	10	0.5FS10	-	-
301V0174	600//1	15	5P10	-	-
301V0175	600//1	10	5P10	-	-
301V0176	600//1	15	0.5FS5	-	-
301V0177	600//1/1	5	0.5FS5	5	5P10
301V0178	600//1/1	7.5	0.5FS10	7.5	5P10
301V0179	800//1	10	0.5FS10	-	-
301V0180	800//1	15	5P10	-	-
301V0181	800//1	10	5P10	-	-
301V0182	800//1	15	0.5FS10	-	-
301V0183	800//1/1	5	0.5FS5	5	5P10
301V0184	800//1/1	7.5	0.5FS10	7.5	5P10
301V0185	1 000//1	10	0.5FS10	-	-
301V0186	1 000//1	15	5P10	-	-
301V0187	1 000//1	10	5P10	-	-
301V0188	1 000//1	15	0.5FS10	-	-
301V0189	1 000//1/1	5	0.5FS5	5	5P10
301V0190	1000//1/1	7.5	0.5FS10	7.5	5P10
301V0191	1 250//1	10	0.5FS10	-	-
301V0192	1 250//1	15	5P10	-	-
301V0193	1 250//1	10	5P10	-	-
301V0194	1 250//1	15	0.5FS10	-	-
301V0195	1 250//1/1	5	0.5FS10	5	5P10
301V0196	1 250//1/1	7.5		7.5	5P10

Tab. 4. BD 00 A parameters

BD 00 C parameters for secondary current 5 A:

BD 00 C: Inner diameter 85 mm					
Material Number: 1VL4600...	**RATIO**	**1 Winding**		**2 Windings**	
		Burden [VA]	Accuracy class	Burden [VA]	Accuracy class
303V0101	100//5	5	0.5FS20	-	-
303V0102	100//5	10	0.5FS20	-	-
303V0103	100//5	5	5P10	-	-
303V0104	100//5	10	5P10	-	-
303V0105	100//5/5	2.5	0.5FS10	2.5	-
303V0106	100//5/5	5	0.5FS10	5	-
303V0107	150//5	5	0.5FS5	-	-
303V0108	150//5	10	0.5FS5	-	-
303V0109	150//5	5	5P10	-	-
303V0110	150//5	10	5P10	-	5P10
303V0111	150//5/5	2.5	0.5FS10	2.5	5P10
303V0112	150//5/5	5	0.5FS10	5	5P10
303V0113	200//5	5	0.5FS5	-	-
303V0114	200//5	10	0.5FS5	-	-
303V0115	200//5	5	5P10	-	-
303V0116	200//5	10	5P10	-	-
303V0117	200//5/5	2.5	0.5FS10	2.5	5P10
303V0118	200//5/5	5	0.5FS10	5	5P10

Tab. 5. BD 00 C parameters

Note:

1) Every other parameters have to be agreed with the manufacturer and will be considered on special basis.

2) Reconnectable variants are also possible, but need to be examined on special basis (according to customer's requirement and the agreement with manufacturer).

BD 00 C: Inner diameter 85 mm					
Material Number: 1VL4600...	**RATIO**	**1 Winding**		**2 Windings**	
		Burden [VA]	Accuracy class	Burden [VA]	Accuracy class
303V0119	250//5	5	0.5FS5	-	-
303V0120	250//5	10	0.5FS15	-	-
303V0121	250//5	5	5P10	-	-
303V0122	250//5	10	5P10	-	-
303V0123	250//5/5	2.5	0.5FS10	2.5	5P10
303V0124	250//5/5	5	0.5FS10	5	5P10
303V0125	300//5	5	0.5FS10	-	-
303V0126	300//5	10	0.5FS15	-	-
303V0127	300//5	5	5P10	-	-
303V0128	300//5	10	5P10	-	-
303V0129	300//5/5	2.5	0.5FS10	2.5	5P10
303V0130	300//5/5	5	0.5FS10	5	5P10
303V0131	400//5	5	0.5FS10	-	-
303V0132	400//5	10	0.5FS15	-	-
303V0133	400//5	5	5P10	-	-
303V0134	400//5	10	5P10	-	-
303V0135	400//5/5	2.5	0.5FS10	2.5	5P10
303V0136	400//5/5	5	0.5FS10	5	5P10
303V0137	500//5	10	0.5FS10	-	-
303V0138	500//5	15	0.5FS10	-	-
303V0139	500//5	10	5P10	-	-
303V0140	500//5	15	5P10	-	-
303V0141	500//5/5	5	0.5FS10	5	5P10
303V0142	500//5/5	7.5	0.5FS10	7.5	5P10
303V0143	600//5	10	0.5FS10	-	-
303V0144	600//5	15	0.5FS10	-	-
303V0145	600//5	10	5P10	-	-
303V0146	600//5	15	5P10	-	-
303V0147	600//5/5	5	0.5FS10	5	5P10
303V0148	600//5/5	7.5	0.5FS10	7.5	5P10
303V0149	800//5	10	0.5FS10	-	-
303V0150	800//5	15	0.5FS10	-	-
303V0151	800//5	10	5P10	-	-
303V0152	800//5	15	5P10	-	-
303V0153	800//5/5	5	0.5FS10	5	5P10
303V0154	800//5/5	7.5	0.5FS10	7.5	5P10
303V0155	1 000//5	10	0.5FS10	-	-
303V0156	1 000//5	15	0.5FS10	-	-
303V0157	1 000//5	10	5P10	-	-
303V0158	1 000//5	15	5P10	-	-
303V0159	1 000//5/5	5	0.5FS10	5	5P10
303V0160	1 000//5/5	7.5	0.5FS10	7.5	5P10
303V0161	1 250//5	10	0.5FS10	-	-
303V0162	1 250//5	15	0.5FS10	-	-
303V0163	1 250//5	10	5P10	-	-
303V0164	1 250//5	15	5P10	-	-
303V0165	1 250//5/5	5	0.5FS10	5	5P10
303V0166	1 250//5/5	7.5	0.5FS10	7.5	5P10

Tab. 6. BD 00 C parameters

BD 00 C parameters for secondary current 1 A:

BD 00 C: Inner diameter 85 mm					
Material Number: 1VL4600...	**RATIO**	**1 Winding**		**2 Windings**	
		Burden [VA]	Accuracy class	Burden [VA]	Accuracy class
303V0167	100//1	5	0.5FS20	-	-
303V0168	100//1	10	0.5FS10	-	-
303V0169	100//1	5	5P10	-	-
303V0170	100//1	10	5P10	-	-
303V0171	100//1/1	2.5	0.5FS10	2.5	5P10
303V0172	100//1/1	5	0.5FS10	5	5P10
303V0173	150//1	5	0.5FS5	-	-
303V0174	150//1	10	0.5FS5	-	-
303V0175	150//1	5	5P10	-	-
303V0176	150//1	10	5P10	-	-
303V0177	150//1/1	2.5	0.5FS10	2.5	5P10
303V0178	150//1/1	5	0.5FS10	5	5P10
303V0179	200//1	5	0.5FS5	-	-
303V0180	200//1	10	0.5FS5	-	-
303V0181	200//1	5	5P10	-	-
303V0182	200//1	10	5P10	-	-
303V0183	200//1/1	2.5	0.5FS10	2.5	5P10
303V0184	200//1/1	5	0.5FS10	5	5P10

Tab. 7. BD 00 C parameters

Note:

1) Every other parameters have to be agreed with the manufacturer and will be considered on special basis.

2) Reconnectable variants are also possible, but need to be examined on special basis (according to customer's requirement and the agreement with manufacturer).

BD 00 C: Inner diameter 85 mm					
Material Number: 1VL4600...	**RATIO**	**1 Winding**		**2 Windings**	
		Burden [VA]	Accuracy class	Burden [VA]	Accuracy class
303V0185	250//1	5	0.5FS5	-	-
303V0186	250//1	10	0.5FS15	-	-
303V0187	250//1	5	5P10	-	-
303V0188	250//1	10	5P10	-	-
303V0189	250//1/1	2.5	0.5FS10	2.5	5P10
303V0190	250//1/1	5	0.5FS10	5	5P10
303V0191	300//1	5	0.5FS10	-	-
303V0192	300//1	10	0.5FS15	-	-
303V0193	300//1	5	5P10	-	-
303V0194	300//1	10	5P10	-	-
303V0195	300//1/1	2.5	0.5FS10	2.5	5P10
303V0196	300//1/1	5	0.5FS10	5	5P10
303V0197	400//1	5	0.5FS10	-	-
303V0198	400//1	10	0.5FS15	-	-
303V0199	400//1	5	5P10	-	-
303V0200	400//1	10	5P10	-	-
303V0201	400//1/1	2.5	0.5FS10	2.5	5P10
303V0202	400//1/1	5	0.5FS10	5	5P10
303V0203	500//1	10	0.5FS10	-	-
303V0204	500//1	15	0.5FS10	-	-
303V0205	500//1	10	5P10	-	-
303V0206	500//1	15	5P10	-	-
303V0207	500//1/1	5	0.5FS10	5	5P10
303V0208	500//1/1	7.5	0.5FS10	7.5	5P10
303V0209	600//1	10	0.5FS10	-	-
303V0210	600//1	15	0.5FS10	-	-
303V0211	600//1	10	5P10	-	-
303V0212	600//1	15	5P10	-	-
303V0213	600//1/1	5	0.5FS10	5	5P10
303V0214	600//1/1	7.5	0.5FS10	7.5	5P10
303V0215	800//1	10	0.5FS10	-	-
303V0216	800//1	15	0.5FS10	-	-
303V0217	800//1	10	5P10	-	-
303V0218	800//1	15	5P10	-	-
303V0219	800//1/1	5	0.5FS10	5	5P10
303V0220	800//1/1	7.5	0.5FS10	7.5	5P10
303V0221	1 000//1	10	0.5FS10	-	-
303V0222	1 000//1	15	0.5FS10	-	-
303V0223	1 000//1	10	5P10	-	-
303V0224	1 000//1	15	5P10	-	-
303V0225	1 000//1/1	5	0.5FS10	5	5P10
303V0226	1 000//1/1	7.5	0.5FS10	7.5	5P10
303V0227	1 250//1	10	0.5FS10	-	-
303V0228	1 250//1	15	0.5FS10	-	-
303V0229	1 250//1	10	5P10	-	-
303V0230	1 250//1	15	5P10	-	-
303V0231	1 250//1/1	5	0.5FS10	5	5P10
303V0232	1 250//1/1	7.5	0.5FS10	7.5	5P10

Tab. 8. BD 00 C parameters

Dimensional Drawings

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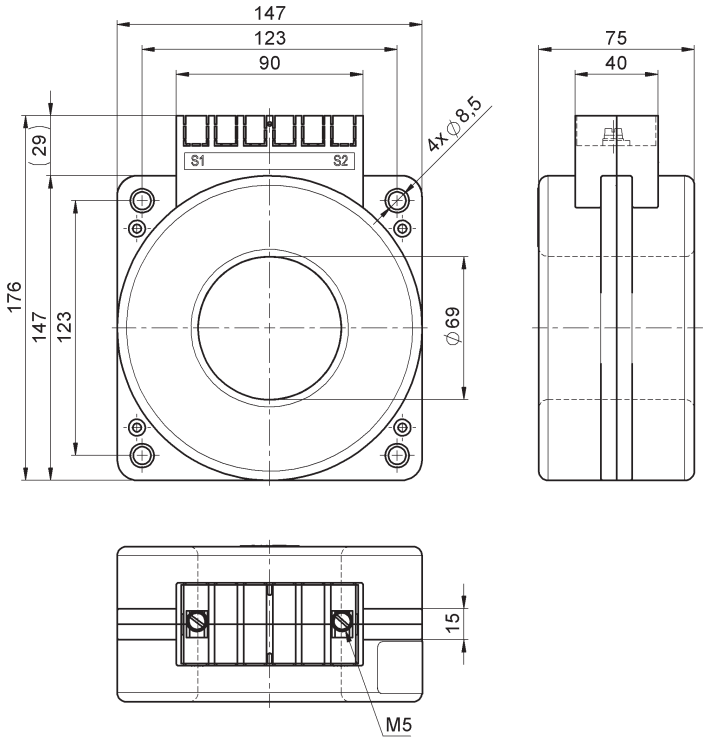
BD 00 A



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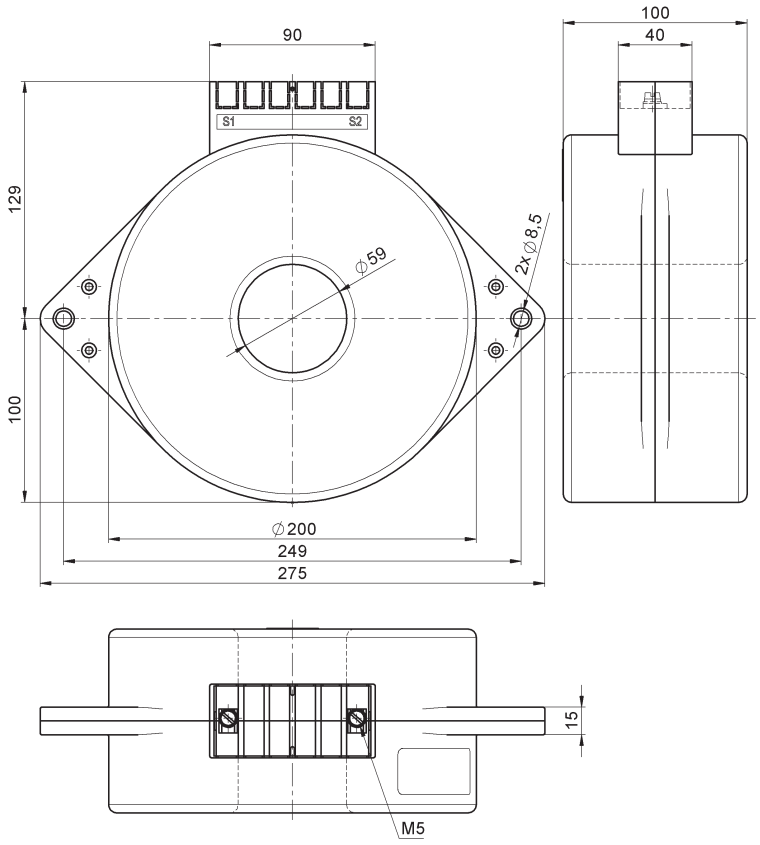
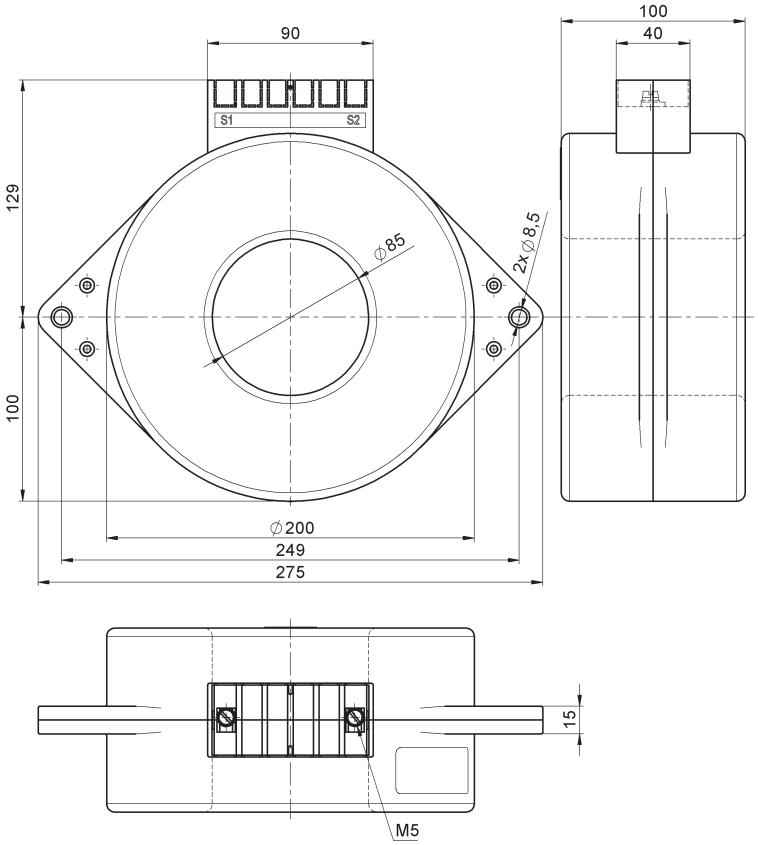
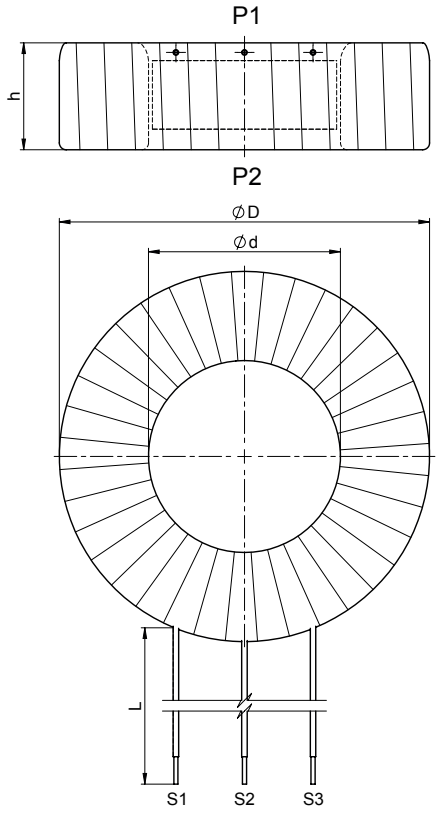
BD 00 B



BD 00 C



BD 00 dxDxh



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1VLC000516 Rev.4, en 2017.10.12