

Type HF, primary current up to 5000 amps, accuracy classes from 0.2S to 3,
highest system voltage 720 volt

T-Line Current Transformers

Catalog 2021



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T-Line, current transformers

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2. Description

2.1 General Description

A current transformer is a central part of a measuring system. There are many reasons why the Eaton Electric through-primary current transformer type HF is something special. One reason is that it is easily mounted - the same transformer can be used for bars as well as for round conductors. Most of the transformers cover, within the same order number, the accuracy classes 0.5, 1 and 3 in one standard series and the accuracy classes 0.2S and 0.2 in the other standard series. Consequently, a minimal number of transformers can cover a wide range of applications thereby reducing the total expenses for investment and storage. Small external dimensions make the HF-series especially attractive for use in modern compact equipment with small phase distances.

The very large aperture can be used for primary winding too. When very small bars and large apertures (HF4B, HF5, and HF7A) are involved, the transformer is mounted on bar by means of an insert. The transformers of the HF-series have qualities that make them suitable for use under difficult operating conditions too.

2.2 Secondary Terminals

The secondary terminals are corrosion-resistant (copper rich alloy and nickel-plated) and vibration-proof (Reakdyn system). Mounting of secondary conductors used to be error prone and costly. Now the conductor can be mounted directly for a modest sum of money (without any further preparations like mounting of cable lug, soldering etc.). The terminals accommodate solid as well as multicore conductors. The secondary terminals have a double connection which permits the shorting of the secondary winding during operation, e.g. when replacing the measuring equipment connected. These reliable terminals are located within the transformer enclosure to avoid unintentional touching or short-circuiting of the terminals.

2.3 Enclosure

The enclosure is moulded in a thermoplastic material (Polycarbonate Lexan® 940) which is heat and impact resistant and self-extinguishing (V-0 according to UL 94). As it has excellent tracking resistance and insulating properties, it permits the mounting of the HF transformers even if there is very little space. The transformer withstands at rated current continuously an ambient temperature up to 55° C at a temperature of 90° C on the primary conductor simultaneously. Insulation class B (IEC61869-1/2).

2.4 Rating Plate

Another point worth noticing is the data label which giving all necessary information such as polarity P1 and P2 for the primary side as well as S1 and S2 for the secondary side. 1 and 2 refer to the flow direction.

The label is mounted on the front of the transformer, therefore you can easily identify the transformer after mounting.

The data label is placed behind a transparent pane, so the data information cannot be scratched off, washed off or damaged in other ways. The data label and the pane are built into the transformer which prevent them from falling off.

2.5 Accessories

The accessories are a very important part of the quality features of a transformer. Eaton Electric therefore uses only carefully constructed high quality equipment which lives up to your expectation for high reliability at reasonable costs.

The main features are: easy mounting without tools, vibration-proof and corrosion-resistant.

Thus the clamps for bar mounting are made of resilient stainless steel. They are therefore able to compensate for the thermal expansions and contractions of the bar and the enclosure, thus securing a stable and vibration-proof fixing. Top hat rail bar fittings and fittings for mounting on base plate are also made of resilient stainless steel.

2.6 Special Application

Due to excellent performance, the HF-range is widely being used on board ships approved by the classification societies.

2.7 General Technical Specifications

Standard:	IEC 61869-1/2 EN 61869-1/2
Highest rated voltage:	0.72 kV
Test voltage one minute:	3 kV
Frequency:	50-60 Hz
Rated secondary current:	5A or 1A
Self-extinguishing enclosure:	UL 94 class V-0
Product approval:	

3. Measuring Accuracy

The table 3.1 shows the accuracy classes corresponding to the HF-series.

The accuracy classes must be respected at rated burden according to IEC 61869-2 (VA mentioned at the rating plate of the transformer) as well as at 25% of the rated burden, however not less than 1 VA.

It is valid for all transformers from Eaton Electric that the respective accuracy class is respected from 1 VA till rated burden irrespective of that the 25% of the rated burden could allow a value greater than 1 VA.

Table 3.1: Current- and phase displacement error

Accuracy- classes acc. to IEC 60044-1	Percentage current error +/- % % Rated current (I _p n)						Phase displacement +/- minutes % Rated current (I _p n)				
	1	5	20	50	100	120	1	5	20	100	120
0.2S	0.75	0.35	0.2	-	0.2	0.2	30	15	10	10	10
0.2	-	0.75	0.35	-	0.2	0.2	-	30	15	10	10
0.5	-	1.5	0.75	-	0.5	0.5	-	90	45	30	30
1	-	3	1.5	-	1	1	-	180	90	60	60
3	-	-	-	3	-	3	-	-	-	-	-

The measuring accuracy of a current transformer depend on the total burden in the secondary circuit.

To obtain the measuring accuracy of a given class, the total burden must therefore stay within the output of the current transformer in the required class.

The total burden of the transformer is made up of the burden from the connected instrument (Table 3.2) and wires (Table 3.3).

The tables below may be used as a guide on typical burdens.

Table 3.2: Burden - instrument

Burden instrument	[VA]
Moving iron instrument	0.3 - 1.2
Moving coil instrument	0.3 - 1.2
Bimetal instrument	2.0 - 3.2
KWh-meter/current circuit	0.3 – 4.0

Table 3.3: Burden – wire

Rated secondary Current [A]	Size of conductor [mm²]	Wire [m] 1"				
		0.5	1.0	2,5	5	10
		Copper wire Burden [VA]				
5	1,5	0.29	0.58	1.45	2.9	5.8
5	2,5	0.18	0.35	0.88	1.75	3.5
1	1	0.018	0.035	0.09	0.18	0.35
1	1,5	0.012	0.023	0.06	0.12	0.23
1	2,5	0.007	0.014	0.035	0.07	0.14

*Double wire. With double wire means: From transformer to instrument and return to transformer.

4. Product overview – Accuracy class 0.5 – 1 – 3, type HF3A and HF3B

HF3A

HF3B


	HF3A					HF3B				
	Accuracy class			Rated secondary current [A]		Accuracy class			Rated secondary current [A]	
	0.5	1	3	5	1	0.5	1	3	5	1
Rated primary current [A]	Burden [VA]			Article no. 741B00__		Burden [VA]			Catalog number 741B00__	
30	-	-	1	-	08	-	-	-	-	-
50	-	1	2	11	31	-	-	-	-	-
60	-	1	2.5	13	21	-	-	-	-	-
75	-	1.5	3	12	32	-	-	-	-	-
80	-	2	3	87	88	-	-	-	-	-
100	1.5	3	5	14	33	-	-	2	04	06
125	2.5	3	5	-	89	1	2	2.5	97	23
150	2.5	5	5	-	34	1	2.5	3	05	07
200	2.5	5	7.5	-	35	1	2.5	3	18	36
250	5	5	7.5	-	28	2.5	2.5	4	19	29
300	-	-	-	-	-	2.5	5	5	20	37
400	-	-	-	-	-	2.5	5	5	-	38
500	-	-	-	-	-	2.5	5	5	24	39
600	-	-	-	-	-	5	5	7.5	26	40

	Units	HF3A	HF3B
Max. dimension of primary bar	[mm x mm]	5 x 20	10 x 30
Conductor (diameter)	[mm]	17	23
Secondary terminals	[mm ²]	max. 2.5	max. 2.5
I _{th rms} i 1 sec.	[kA]	15	45
Bush	-	741B0321	741B0322
Sealable cover	-	741B0232	741B0232
Clamp (for bar mounting)	-	741B0030	741B0030
Fittings for DIN-Rail	-	741B0231	741B0231
Fittings for base plate	-	741B0230	741B0230

5. Product overview – Accuracy class 0.5 – 1 – 3, type HF4B and HF5

HF4B



HF5



	HF4B					HF5				
	Accuracy class			Rated secondary current [A]		Accuracy class			Rated secondary current [A]	
	0.5	1	3	5	1	0.5	1	3	5	1
Rated primary current [A]	Burden [VA]			Article no. 741C20_ _		Burden [VA]			Catalog number 741E00_ _	
50	-	-	2	57	54	-	-	-	-	-
60	-	-	2	58	55	-	-	-	-	-
75	-	1	2.5	59	56	-	-	-	-	-
100	1	2.5	5	60	68	-	-	-	-	-
150	2.5	5	5	61	69	-	-	-	-	-
200	5	5	7.5	62	70	-	-	-	-	-
250	5	7.5	10	63	71	-	-	-	-	-
300	7.5	10	15	64	72	5	7.5	10	11	-
400	7.5	10	15	65	73	10	10	15	21	28
500	10	10	15	66	74	15	20	20	22	29
600	10	15	20	67	75	15	20	20	23	30
750	-	-	-	-	-	15	20	20	34	35
800	-	-	-	-	-	20	20	20	24	31
1000	-	-	-	-	-	30	30	30	25	32
1200	-	-	-	-	-	30	30	30	26	33
1250	-	-	-	-	-	30	30	30	37	38
1500	-	-	-	-	-	20	20	30	27	17
1600	-	-	-	-	-	20	20	30	39	18

	Units	HF4B	HF5
Max. dimension of primary bar	[mm x mm]	10 x 40	12 x 60
Conductor (diameter)	[mm]	28	39
Secondary terminals	[mm ²]	max. 6	max. 6
I _{th} rms i 1 sec.	[kA]	60	100
Insert	-	741C0329	741C0329
Sealable cover	-	741C0221	741C0221
Clamp* (for bar mounting)	-	741C0256	741C0256
Fittings for DIN-Rail	-	741C0243	741C0243
Fittings for base plate	-	741H0230	741H0230

* Accessories included with the transformers (number only for spare part ordering).

6. Product overview – Accuracy class 0.5 – 1 – 3, type HF7A, HF6 and HF8A

HF7A

HF6

HF8A


	HF7A					HF6					HF8A				
	Accuracy class			Rated secondary current [A]		Accuracy class			Rated secondary current [A]		Accuracy class			Rated secondary current [A]	
	0.5	1	3	5	1	0.5	1	3	5	1	0.5	1	3	5	1
Rated primary current [A]	Burden [VA]			Catalog number 741H00__		Burden [VA]			Catalog number 741F00__		Burden [VA]			Catalog number 741K00__	
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400	5	7.5	10	11	24	-	-	-	-	-	-	-	-	-	-
500	7.5	10	15	12	25	-	-	-	-	-	-	-	-	-	-
600	7.5	10	15	13	26	-	-	-	-	-	-	-	-	-	-
750	10	15	20	14	27	-	-	-	-	-	-	-	-	-	-
800	10	15	20	15	28	-	-	-	-	-	-	-	-	-	-
1000	15	20	30	16	29	20	30	30	23	33	-	-	-	-	-
1200	15	20	30	17	30	20	30	30	24	-	-	-	-	-	-
1250	15	20	30	18	31	20	30	30	22	-	-	-	-	-	-
1500	20	30	45	19	32	30	45	45	25	35	15	30	45	11	19
1600	20	30	45	20	33	30	45	45	26	-	-	-	-	-	-
2000	30	45	45	21	34	30	45	60	27	37	15	30	45	13	21
2500	30	45	45	23	36	30	45	60	28	38	15	30	45	14	22
3000	-	-	-	-	-	30	45	60	29	39	30	45	60	16	24
4000	-	-	-	-	-	-	-	-	-	-	30	45	60	17	25
5000	-	-	-	-	-	-	-	-	-	-	30	45	60	18	-

	Units	HF7A	HF6	HF8A
Max. dimension of primary bar	[mm x mm]	2 // 10 x 80	3 // 10 x 100	2 // 10 x 120
Conductor (diameter)	[mm x mm]	3 // 10 x 50	2//55	3 // 10 x 100
	[mm]	65		81
Secondary terminals	[mm ²]	max. 6	max. 6	max. 6
Ith rms i 1 sec.	[kA]	120	>120	>120
Insert	-	741H0240	-	-
Clamp* (for bar mounting)	-	741C0256	741F0220	741F0220
Sealable cover	-	741C0221	741C0221	741C0221
Fittings for DIN-Rail	-	741C0243	741C0243	741C0243
Fittings for base plate	-	741H0230	741H0230	741H0230

* Accessories included with the transformers (number only for spare part ordering).

7. Product overview – Accuracy class

0.2S – 0.2, type HF4B, HF5, HF6, HF7A and HF8A

	HF4B			HF5			HF7A			HF6			HF8A		
	Accuracy class	Rated secondary current [A]		Accuracy class	Rated secondary current [A]		Accuracy class	Rated secondary current [A]		Accuracy class	Rated secondary current [A]		Accuracy class	Rated secondary current [A]	
	0.2S	0.2	5	0.2S	0.2	5	0.2S	0.2	5	0.2S	0.2	5	0.2S	0.2	5
Rated primary current [A]	Burden [VA]	Catalog number		Burden [VA]	Catalog number		Burden [VA]	Catalog number		Burden [VA]	Catalog number		Burden [VA]	Catalog number	
		741C20__			741E00__			741H00__			741F00__			741K00__	
100	1.25 -	78		- -	-		- -	-		- -	-		- -	-	
150	1.25 -	79		- -	-		- -	-		- -	-		- -	-	
200	1.5 - 2	80 82		- -	-		- -	-		- -	-		- -	-	
250	2 - 2.5	81 84		- -	-		- -	-		- -	-		- -	-	
300	2.5 3	86		1.5 -	60		- -	-		- -	-		- -	-	
400	2.5 4	88		2 4	40		- -	-		- -	-		- -	-	
500	5 7.5	90		2.5 5	42		- -	-		- -	-		- -	-	
600	5 7.5	92		5 7.5	44		- -	-		- -	-		- -	-	
750	- -	-		5 7.5	46		5 7.5	50		- -	-		- -	-	
800	- -	-		5 7.5	48		5 7.5	52		- -	-		- -	-	
1000	- -	-		7.5 10	50		7.5 10	54		5 10	50		- -	-	
1200	- -	-		10 10	52		10 10	56		7.5 10	52		- -	-	
1250	- -	-		10 10	54		10 10	58		7.5 10	54		- -	-	
1500	- -	-		10 10	56		10 10	60		10 10	56		7.5 10	31	
1600	- -	-		10 10	58		10 10	62		10 10	58		- -	-	
2000	- -	-		- -	-		10 10	64		10 10	60		10 10	33	
2400	- -	-		- -	-		10 10	66		10 10	62		- -	-	
2500	- -	-		- -	-		10 10	68		10 10	64		10 10	34	
3000	- -	-		- -	-		- -	-		10 10	66		10 10	36	
4000	- -	-		- -	-		- -	-		- -	-		10 10	37	
5000	- -	-		- -	-		- -	-		- -	-		10 10	38	

	Units	HF4B	HF5	HF7A	HF6	HF8A
Max. dimension of primary bar Conductor	[mm x mm] [mm x mm] [mm]	10 x 40 28	12 x 60 39	2 // 10 x 80 3 // 10 x 50 65	3 // 10 x 100 2 // 55	2 // 10 x 120 3 // 10 x 100 81
Secondary terminals	mm ²	max. 6	max. 6	max. 6	max. 6	max. 6
I _{th} rms i 1 sec.	[kA]	60	100	120	>120	>120
Insert	-	741C0329	741C0329	741H0240	-	-
Clamp*	-	741C0256	741C0256	741C0256	741F0220	741F0220
Sealable cover	-	741C0221	741C0221	741C0221	741C0221	741C0221
Fittings for DIN-rail	-	741C0243	741C0243	741C0243	741C0243	741C0243
Fittings f base plate	-	741H0230	741H0230	741H0230	741H0230	741H0230

* Accessories included with the transformers (number only for spare part ordering).

8. Primary winding, at lower primary current



At low operating currents it may be required to use current transformers with rated primary currents less than 50 A if an ample instrument deflection shall be obtained. At rated primary currents of 100 A or less, the available output of a through-primary current transformer may be too low for a given application. The solution in both cases is a standard through-primary current transformer provided with a primary winding.

In principle any through-primary current transformer can be provided with a primary winding. Considering space and required labour it is, however, advantageous to use a through-primary current transformer with the lowest possible rated primary current. Consequently the optimum choice is e.g. current transformer type HF3A.

Ordinary insulated wire of sufficient current carrying capacity for the primary circuit is suitable for the primary winding. The number of primary turns is the number of times, the wire is taken through the transformer aperture.

Apart from changing the ratio of transformation, the primary winding has no influence on the data of the transformer. Output and rated secondary current remain unchanged.

The number of turns necessary depends on the ratio of the rated primary current of the transformer employed and the required primary current.

$$\text{No. of primary turns} = \frac{\text{Rated primary current}}{\text{Required primary current}} (\text{Integer value})$$

The necessary number of primary turns, which shall be mounted on a HF3A to obtain a desired primary current, is tabulated below. When the required number of turns is found, it is possible to find the maximum cross section area of the primary winding through the table at the bottom of the page.

HF3A	[A]	Number of turns [the number of times, the wire is taken through the transformer aperture]								Accuracy class		
										0.5	1	3
										Burden [VA]		
Rated primary current	50	10	5	-	-	2	-	1	-	-	1	2
	60	12	6	4	3	-	2	-	-	-	1	2.5
	75	15	-	5	-	3	-	-	1	-	1.5	3
	80	16	8	-	4	-	-	-	-	-	2	3
	100	20	10	-	5	4	-	2	-	1.5	3	5
	125	25	-	-	-	5	-	-	-	2.5	3	5
	150	30	15	10	-	6	5	3	2	2.5	5	5
Required primary current	[A]	5	10	15	20	25	30	50	75			

Number of turns for type HF3A	Units	2	3	4	5	6	8	10	12	13	15	16	20	25	30
Maximum wire cross-section for solid or stranded conductors (1-7 stands)	[mm ²]	-	-	10	6	6	4	4	2.5	2.5	2.5	2.5	1.5	1	1
Maximum wire cross-section for flexible conductors (more than 7 stands)	[mm ²]	25	16	10	6	6	4	2.5	2.5	2.5	-	-	-	-	-

9. Mounting opportunities



1. Clamp, in resilient stainless steel, for primary bar mounting:

Clamp is clipped on the transformer without using tools.



2. Clamp, in resilient stainless steel, for mounting on DIN-rail:

The fitting is clipped without using tools.
Same fittings are used for HF4B, HF5, HF6, HF7A and HF8A.
Equivalent fittings are available for the types HF3A, HF3B.



3. Bush (tinned brass) for mounting between two bars or between bar (device terminal) and cable lugs:

The bush is mounted without using tools by pressing it into the aperture of the transformer.



4. Fitting, in resilient stainless steel, for mounting on base plate

These fittings are easily mounted by pushing them into slots in the enclosure of the transformer.
Same fittings are used for HF4B, HF5, HF6, HF7A and HF8A.
Equivalent fittings are available for the types HF3A, HF3B.



5. Clamp, in resilient stainless steel, for primary bar mounting:

The clamp is clipped on the transformer without using tools.
Same fittings are used for HF4B, HF5 and HF7A.

Inserts for small primary bars for HF7A.

The insert (especially heat resistant plastic) are clipped without using tools and it makes it possible to mount a single bar in the large aperture of HF7A.



6. Clamp, in resilient stainless steel, for primary bar mounting:

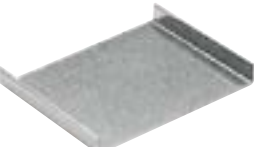
The characteristic of these fittings is that they have only to be clamped to one of the parallel through bars.

This means that distance pieces and mounting of such between the parallel bars can be avoided.

At the same time the fitting is vibration proof, i.e. because it makes it possible for the bars to move freely.

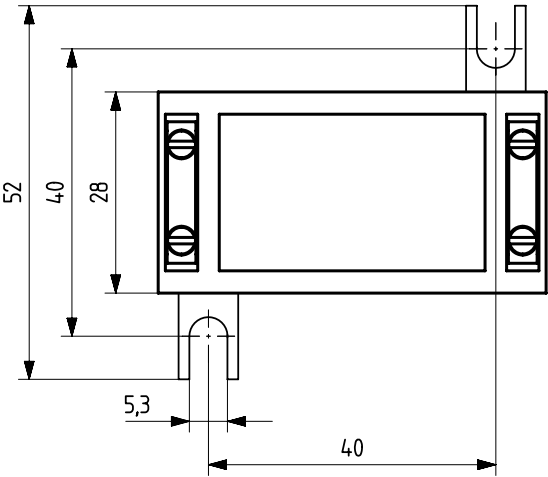
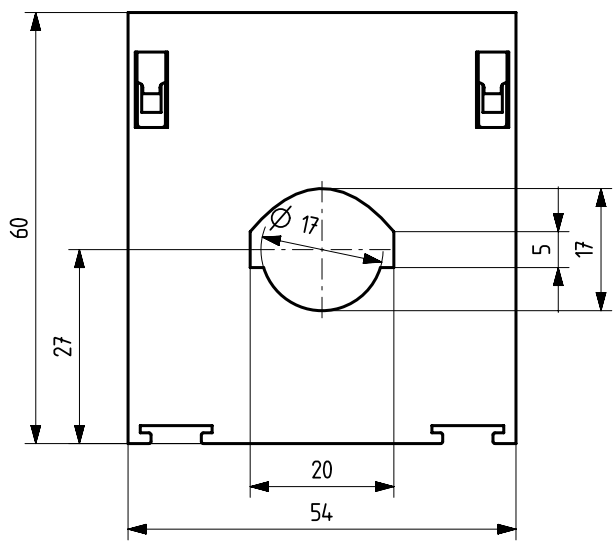
Same fittings are used for HF6 and HF8A.

10. Accessories

	For type:	Units	Catalog number
	Clamp for bar mounting: HF3A and HF3B	1 pc. per bag	741B0030
	HF4B, HF5 and HF7A*	1 pc. per bag	741C0256
	Clamp for bar mounting: HF6 and HF8A *	2 pc. per bag = 1 set	741F0220
	Fitting for mounting on base plate: HF3A and HF3B	12 pcs. per bag (2 pcs. pr. transformer)	741B0230
	HF4B, HF5, HF6, HF7A and HF8A	12 pcs. per bag (4 pcs. pr. transformer)	741H0230
	Fitting for DIN-rail mounting: HF3A and HF3B	2 pc. per bag = 1 set	741B0231
	HF4B, HF5, HF7A and HF8A	2 pc. per bag = 1 set	741C0243
	Bush for mounting between bar and cable lug: HF3A, for M10 screw	1 pc. per bag	741B0321
	HF3B, for M10 screw	1 pc. per bag	741B0322
	Insert: HF4B and HF5		741C0329
	Insert: HF7A *		741H0240
	Sealable cover for secondary terminals: HF3A and HF3B	12 pcs. per bag (4 pcs. pr. transformer)	741B0232
	Sealable cover for secondary terminals: HF4B, HF5, HF6, HF7A and HF8A	12 pcs. per bag (4 pcs. pr. transformer)	741C0221

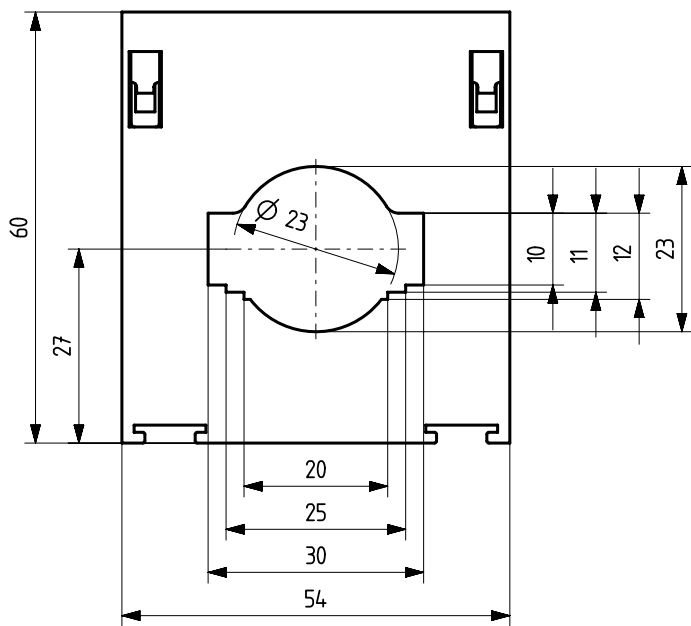
* Accessories included with the transformers (numbers only for spare parts ordering)

11. Dimensions, type HF3A



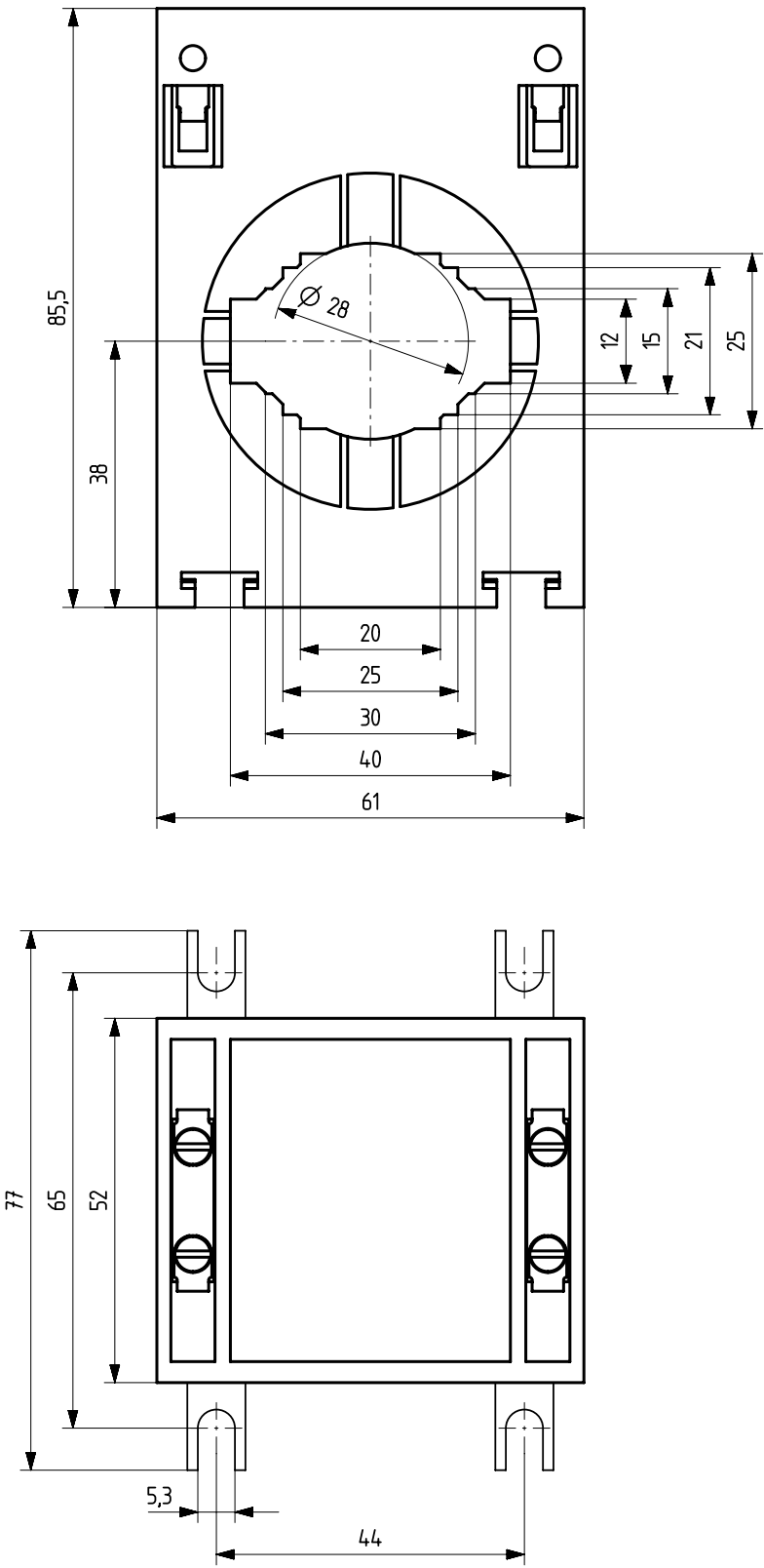
All dimensions in mm

12. Dimensions, type HF3B



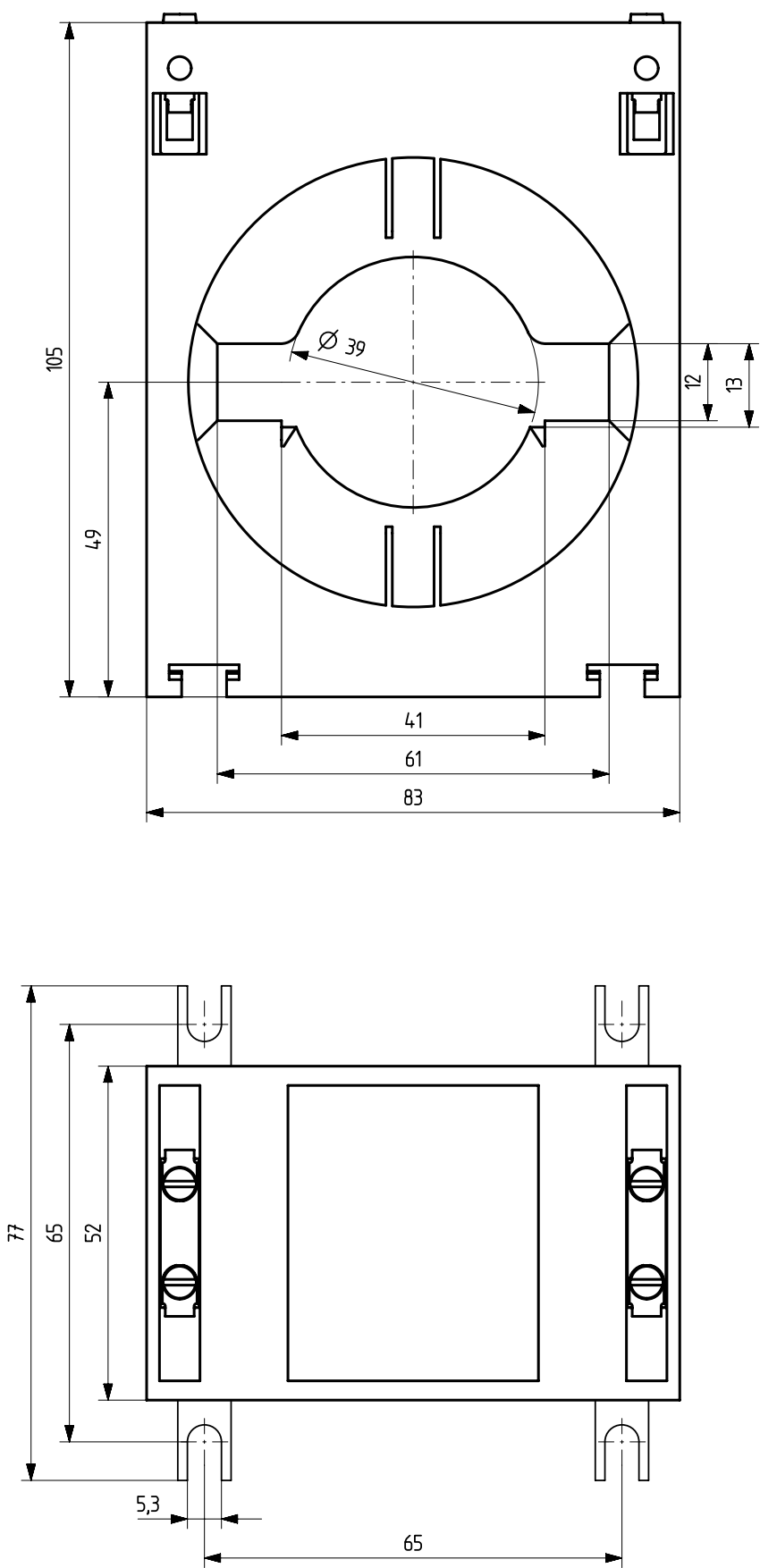
All dimensions in mm

13. Dimensions, type HF4B



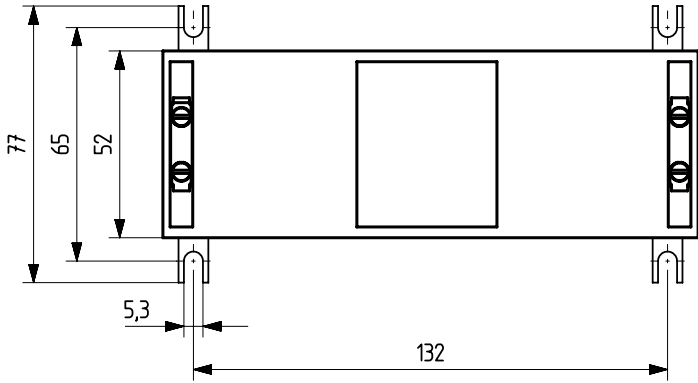
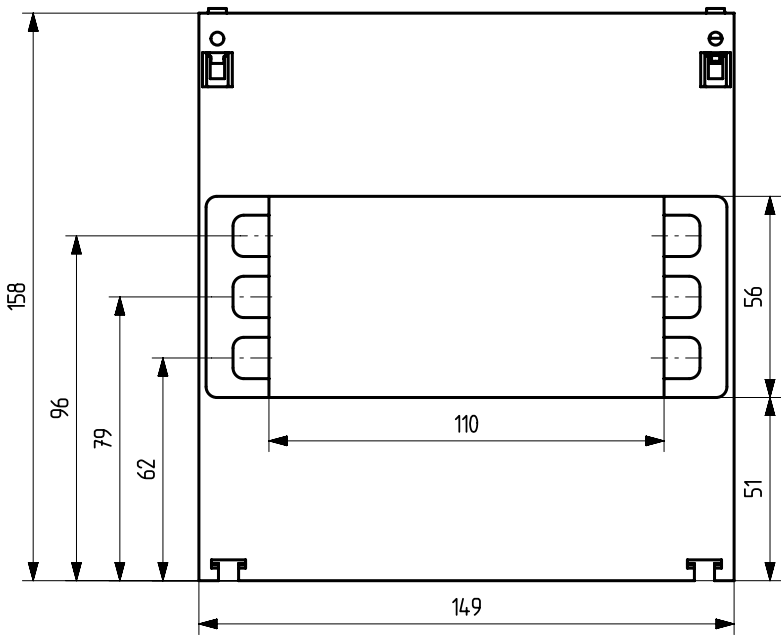
All dimensions in mm

14. Dimensions, type HF5



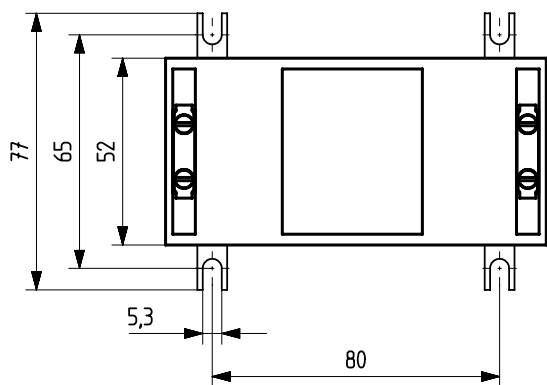
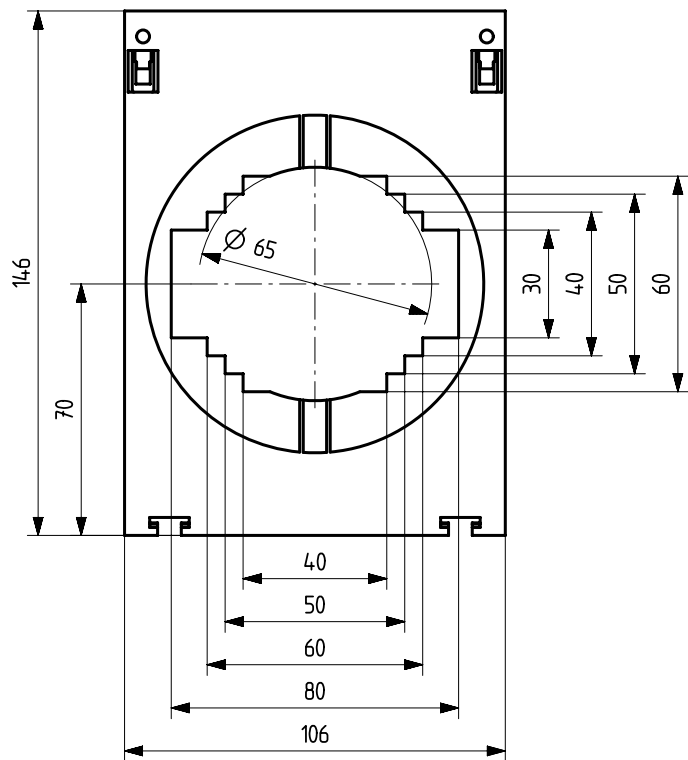
All dimensions in mm

15. Dimensions, type HF6



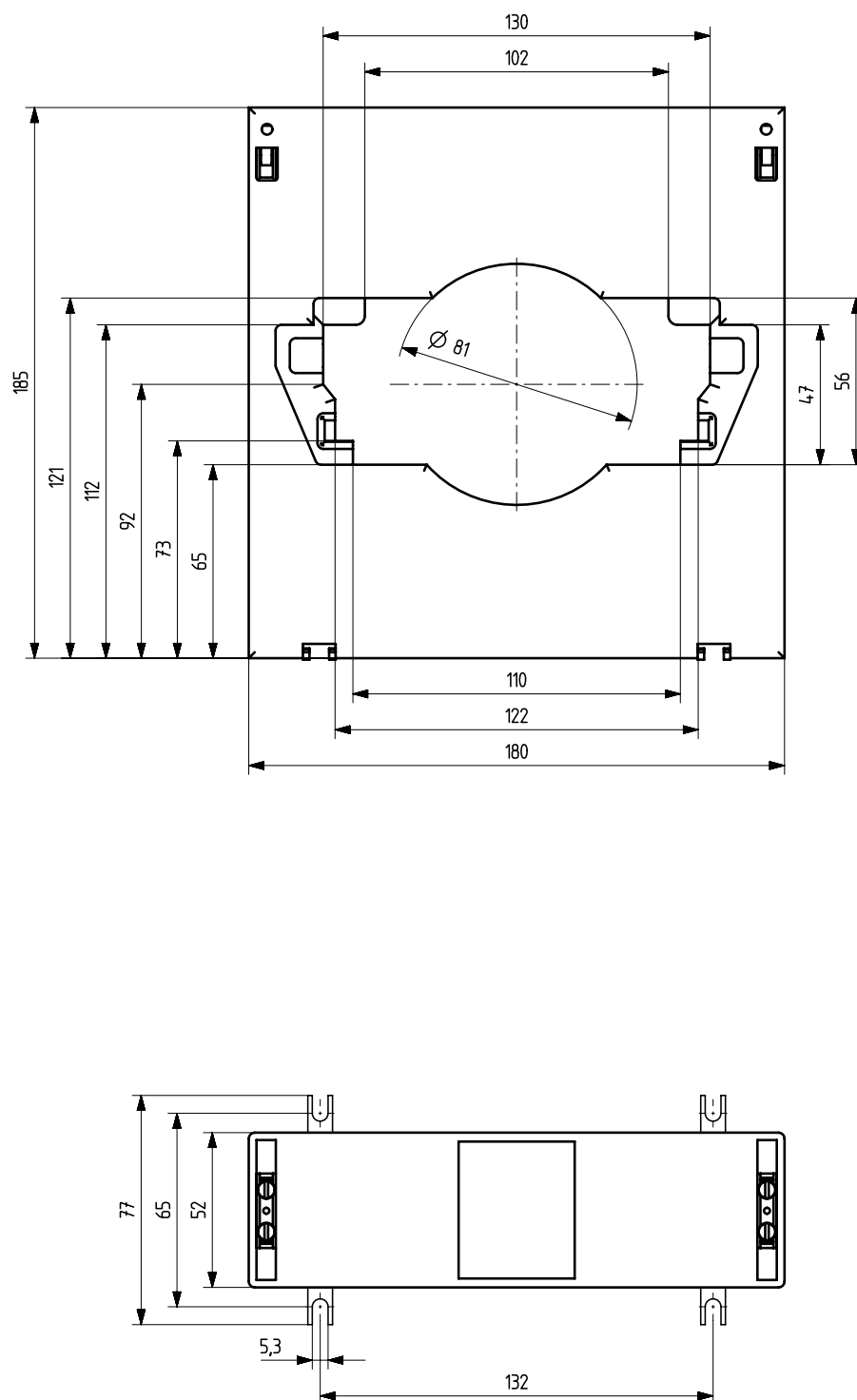
All dimensions in mm

16. Dimensions, type HF7A



All dimensions in mm

17. Dimensions, type HF8A



All dimensions in mm

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