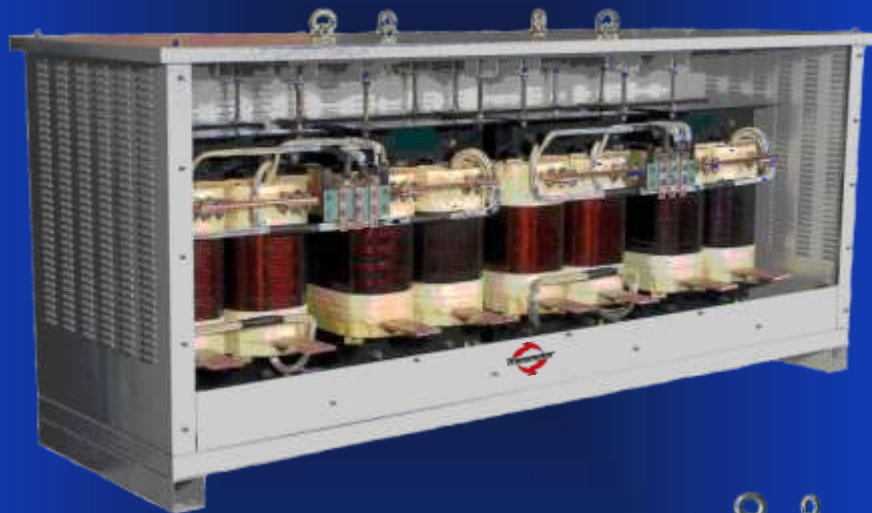




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About Transmotor ApS

We are a Danish supplier of transformers. As a company we have been present on the market since 1977. We have built a strong brand, which is associated with reliability and high quality of offered products. The activity of our Company is aimed at helping the Customers and ensuring their full satisfaction. Due to our long-time experience and a very good workmanship of our products we are able to meet the increasing requirements of our Customers. Our transformers are used in devices operating in many countries around the world.

We produce dry-type low-voltage transformers intended for:

- | | |
|--------------------------------------|--|
| - power electronics, | - railway engineering, |
| - control, isolation, automatics , | - mining, metallurgy and chemical industries |
| - shipyard and aircraft industries , | - military industry |
| - hospitals, | |

We produce also the following types of chokes:

- | | |
|--------------------------|--------------------------|
| - line and motor chokes, | - chokes for filtration, |
| - limiting chokes du/dt | - coupling chokes |
| - shunt reactors, | - smoothing chokes |

and DC power supplies.

QUALITY

Our transformers, chokes and power supplies are usually produced according to requirements of EN/IEC 61558, EN/IEC 60726, EN 60289 and EN/IEC 60076. Transformers from our company are recognized by Germanischer Lloyd, Polish Register of Shipping and Russian Maritime Register of Shipping. They can also meet the requirements of DNV, ABS, BV, RINA, GOST and LR. Since year 2000 the transformers has been produced in accordance to ISO 9001. The correctness of system functioning is confirmed by the certificate no 644/S/2008 issued by Zakład Systemów Jakości i Zarządzania . In year 2008 the factory obtained NATO approval, confirmed by certificate AQAP-2120 no 644/A/2008.

GENERAL TECHNICAL DATA

Our transformers, chokes and power supplies are usually produced with insulation class E(120°C), B(130°C) or F(155°C). Upon request we can manufacture transformers with different insulation classes e.g.: H(180°C) or higher. Transformers designed to be assembled in control cabinets are made with the protection degree IP00 (without enclosure). On request we can produce transformers in metal enclosures with protection degrees IP23; IP44; IP54. Standard colour of painting - RAL 7032. Depending on agreed requirements transformers in enclosures and without enclosures can be prepared for assembling in different operation positions with windning terminals made in agreed design.

NORMAL OPERATING CONDITIONS

Unless otherwise stated, data presented in this catalog cards correspond to the continuous operation of devices at an altitude of 1000 m above sea level at the ambient temperature not exceeding 40°C. In addition to normal working conditions of the transformer is considered sinusoidal alternating power supply, 50 Hz. In the case of polyphase transformers, power supply voltages from the symmetrical supply . We can make transformers operating under different conditions, for example, at a frequency of 1000 Hz or the unbalanced load of phases. However, this requires the development of a special offer.

VOLTAGES AND TAPS

Secondary voltage values given herein refer to the nominal power load with the power factor $\cos \varphi = 1$.

For three-phase transformers these are voltages between the phase conductors (phase-to-phase voltages). If it has not been agreed before, the taps on the secondary side are made for the rated current corresponding with the heighest of the output voltages. Other requirements as regards the permitted taps load should be agreed separately.

ORDERS

You may improve the preparation of the manufacture process and shorten delivery time by specifying in your purchase orders data such as:

- | | |
|--|-------------------------|
| - type designation according to our catalogue, | - insulation class, |
| - power, | - ambient temperature, |
| - primary voltage (possible taps), | - degree of protection, |
| - secondary voltage (possible taps), | - application, |
| - load on separate taps, | - delivery time, |
| - frequency, | - shipment mode. |
| - vector group (for three phase transformers), | |

or you can use inquiry form published on our web side www.transmotor.com

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HOW TO DESIGNATE THE PRODUCT

Example of transformer designation : **ETISM-1,16 220//24 TS-35**

E	T	1	S	M-	1,16	220//24
<i>trade mark</i>	<i>device</i>	<i>number of phases</i>	<i>type</i>	<i>design</i>	<i>power</i>	<i>rated voltages</i>
E	T - transformer	1 or 3	S - separating, power o - isolating, safety isolating S2 - Scott's connection V1 - changing number of phases X - special	B - for thyristor controlled systems G - mining MED - medical KOL - railway M - maritime C - water cooled	power [kVA]	primary voltage [V]// secondary voltage [V]

Example of choke designation: **ED3NM-0,05/100**

E	D	3	N	M-	0,05	100
<i>trade mark</i>	<i>device</i>	<i>number of phases</i>	<i>type</i>	<i>design</i>	<i>rated inductance</i>	<i>rated current</i>
E	D - choke	1 or 3	N - line S - motor dU - limiting du/dt F - filtering (protective) 1W,2W - smoothing K - shunt reactor 2I - interface transformer	M - maritime G - mining C - water cooled	inductance [mH]	current [A]

Example of autotransformer designation: **EA3M-25/50 400/200**

E	A	3		M-	25/50	400/200
<i>trade mark</i>	<i>device</i>	<i>number of phases</i>	<i>type</i>	<i>design</i>	<i>power</i>	<i>rated voltages</i>
E	A - autotransformer	1 or 3	R - starting	B - for thyristor controlled systems G - mining M - maritime	core power/ rated power [kVA]	primary voltage [V]// secondary voltage [V]

Example of power supply designation: **EZ3WM-1,0 230//24DC25**

E	Z	1	W	M-	1,0	230//24DC25
<i>trade mark</i>	<i>device</i>	<i>number of phases</i>	<i>type</i>	<i>design</i>	<i>power</i>	<i>rated voltages/ rated current</i>
E	Z - power supply	1 or 3	W - with smoothing capacitor P - with 12-pulse circuit	M - maritime G - mining	power [kVA]	AC supply voltage [V]// DC output voltage [V] output current [A]

ADDITIONAL MARKING

Additional information useful for the proper production of products, please post at the end of the product designation or as your remarks



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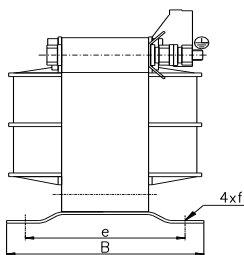
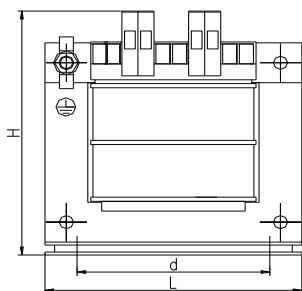
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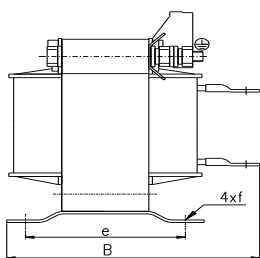


Single-phase safety isolating transformers with the power range between 0,05 kVA and 2,5 kVA

ET1o



Design with screw terminals



Design with cable lugs

Technical data:

Design	Safety isolating transformers are produced in accordance with requirements of EN/IEC 61558-2-6 standard
Insulation class	B(130°C) - standard up to 1,6 kVA, F(155°C) - standard above 1,6 kVA
Climatic class / environmental class	C1/E0 - land design C2/E1 - maritime design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Primary voltage	up to 1000 V
Secondary voltage	up to 50 V
Terminals	Screw terminals with nominal cross section from 1,5 mm ² up to 10 mm ² or cable lugs
Fastening	by means of base plate or angles

Safety isolating transformers are assigned for supplying electric devices with safe voltage.

In standard design, the transformers are adjusted to fastening by means of a base welded into core or screwed angles.

If agreed, the transformers may have more tapings. The windings terminals may be placed on one side only, or on both sides of a transformer.

Upon request, the transformers may be assembled in enclosures with the protection degree of IP 23, IP 44 and IP 54 with the possibility to insert supply cables through glands.

Technical data of single-phase safety isolating transformers ET1o **

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
ET1o_* - 0,050	0,050	78	64	90	56	48	4,8 x 9	1,2
ET1o_* - 0,063	0,063	84	66	93	64	52	4,8 x 8	1,4
ET1o_* - 0,075	0,075	84	66	93	64	52	4,8 x 8	1,5
ET1o_* - 0,10	0,10	84	80	93	64	63	4,8 x 8	2,0
ET1o_* - 0,13	0,13	105	80	111	81	63	5,8 x 12	2,8
ET1o_* - 0,16	0,16	105	80	111	81	63	5,8 x 12	2,9
ET1o_* - 0,20	0,20	105	88	111	81	71	5,8 x 12	3,4
ET1o_* - 0,25	0,25	105	103	111	81	86	5,8 x 12	4,3
ET1o_* - 0,32	0,32	120	95	122	90	77	5,8 x 12	4,4
ET1o_* - 0,40	0,40	120	107	122	90	89	5,8 x 12	5,3
ET1o_* - 0,50	0,50	120	137	127	90	109	5,8 x 12	6,9
ET1o_* - 0,63	0,63	150	117	149	122	89	7 x 15	7,8
ET1o_* - 0,80	0,80	150	134	149	122	106	7 x 15	9,8
ET1o_* - 1,00	1,00	150	210	144	122	133	7 x 15	12,9
ET1o_* - 1,30	1,30	174	175	156	135	116	7 x 15	15,7
ET1o_* - 1,60	1,60	174	195	156	135	136	7 x 15	20
ET1o_* - 2,00	2,00	192	195	178	150	131	10 x 18	22
ET1o_* - 2,50	2,50	192	210	178	150	149	10 x 18	25,5

*) - for transformer design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3)
the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 230//24 operating under normal conditions.
For other conditions and data the values may change

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.

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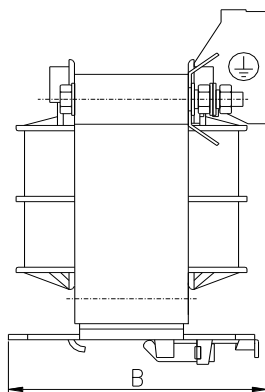
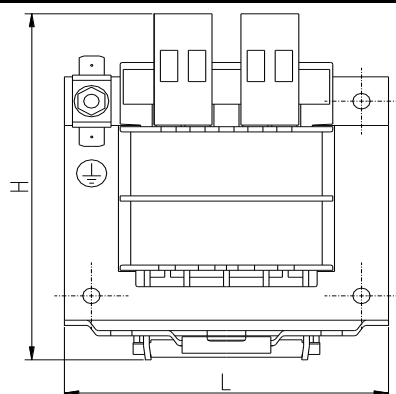
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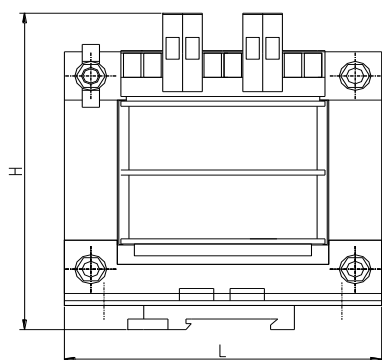
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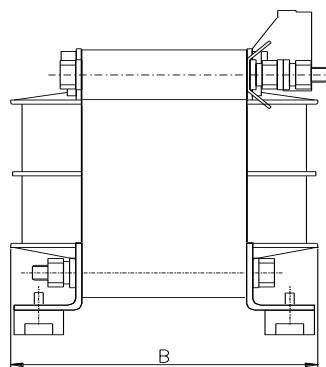
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Design with quick-to-fasten clamp



Design with the fastening adapter type GA35

**Technical data:**

Design	Safety isolating transformers produced in accordance with requirements of EN/IEC 61558-2-6
Insulation class	B(130°C) standard
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Primary voltage	up to 1000 V
Secondary voltage	up to 50 V
Terminals	Screw terminals with nominal cross section from 1,5 mm ² up to 10 mm ² or cable lugs
Fastening	quick-to-fasten clamps for mounting rails TS 35 according to EN 50022

Safety isolating transformers are assigned for supplying electric devices with safe voltage.

Special quick-to-fasten clamp enables the quick and easy mounting on the rail according to EN 50022. If agreed, the transformers may have more tappings. The windings terminals may be placed on one side only, or on both sides of a transformer.

Technical data of single-phase safety isolating transformers ET1o **

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	Weight [kg]
ET1o_* - 0,050	0,050	78	64	90	1,2
ET1o_* - 0,063	0,063	84	66	93	1,4
ET1o_* - 0,075	0,075	84	66	93	1,5
ET1o_* - 0,10	0,10	84	80	93	2,0
ET1o_* - 0,13	0,13	105	80	111	2,8
ET1o_* - 0,16	0,16	105	80	111	2,9
ET1o_* - 0,20	0,20	105	88	111	3,4
ET1o_* - 0,25	0,25	105	103	111	4,3
ET1o_* - 0,32	0,32	120	95	122	4,4
ET1o_* - 0,40	0,40	120	107	122	5,3
ET1o_* - 0,50	0,50	120	137	127	6,9

*) - for transformer design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3)

the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 230//24 operating under normal conditions.

For other conditions and data the values may change

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.

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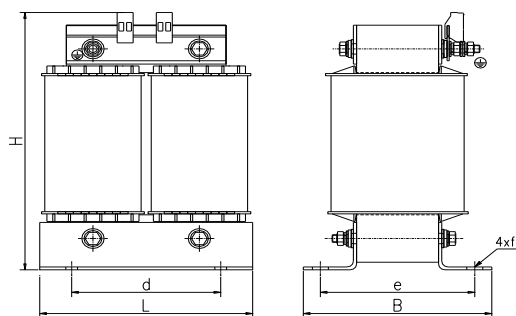
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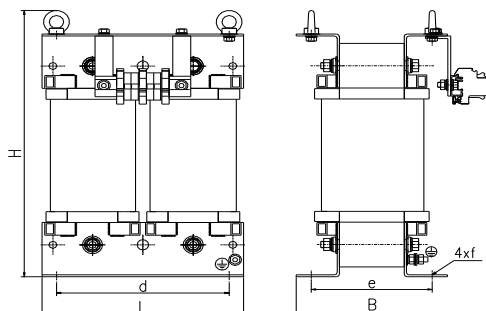


Single-phase safety isolating transformers with the power range between 2,0 and 10,0 kVA

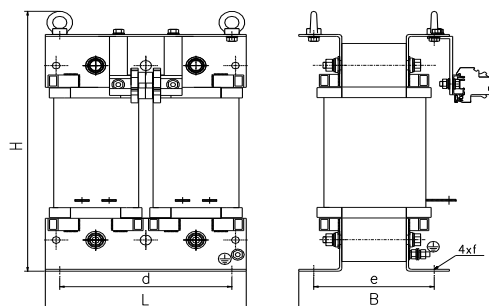
ET1o



Design A for the power up to 6,3 kVA



Design B for the power more than 6,3 kVA



Design B for secondary current above 300 A

Technical data:

Design	Safety isolating transformers produced in accordance with requirements of EN/IEC 61558-2-6
Insulation class	B(130°C) - standard up to 5 kVA, F(155°C) - standard above 5 kVA
Climatic class / environmental class	C1/E0 - land design C2/E1 - maritime design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Primary voltage	up to 1000 V
Secondary voltage	up to 50 V
Terminals	screw terminal blocks with the cross section from 1,5 mm ² up to 150 mm ² or copper bus bars
Fastening	by means of angles

Safety isolating transformers are assigned for supplying electric devices with safe voltage.

In standard design, the transformers are adjusted to fastening by means of screwed angles.

If agreed, the transformers may have more tapplings. The windings terminals may be placed on one side only, or on both sides of a transformer.

Upon request, the transformers may be assembled in enclosures with the protection degree of IP 23, IP 44 and IP 54 with the possibility to insert supply cables through glands.

Standard enclosures have powder coating - colour RAL 7032.

Technical data of single-phase safety isolating transformers ET1o **

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
ET1o_* - 2,0	2,0	178	140	240	128	114	11 x 15	18	A
ET1o_* - 2,5	2,5	178	152	240	128	126	11 x 15	21	A
ET1o_* - 3,0	3,0	200	165	271	140	133	11 x 15	24	A
ET1o_* - 3,5	3,5	200	177	271	140	145	11 x 15	27	A
ET1o_* - 4,0	4,0	200	192	271	140	160	11 x 15	30	A
ET1o_* - 5,0	5,0	240	165	323	200	127	11 x 15	36	A
ET1o_* - 6,3	6,3	240	180	323	200	142	11 x 15	41	A
ET1o_* - 7,5	7,5	280	260	425	240	151	11 x 15	46	B
ET1o_* - 8,0	8,0	280	260	425	240	151	11 x 15	57	B
ET1o_* - 10,0	10,0	280	275	425	240	168	11 x 15	64	B

*) - for transformer design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3) the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 230//24 operating under normal conditions.
For other conditions and data the values may change

Note:

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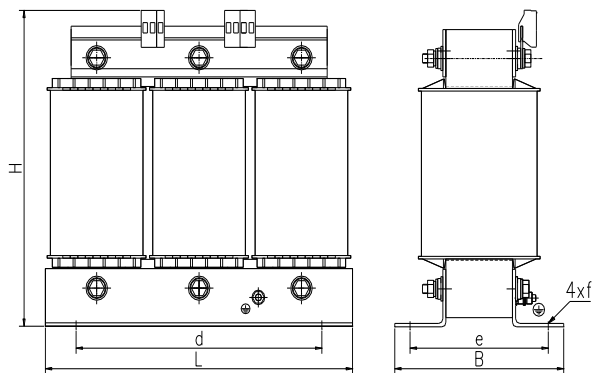
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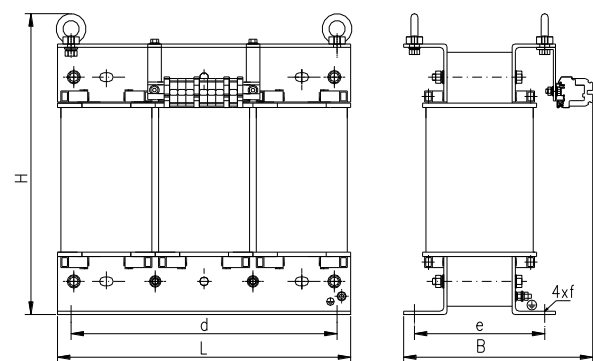
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ET/2010/V/05



Design A for the power lower than 6,3 kVA



Design B for the power 6,3 kVA and more

Technical data:

Design	Safety isolating transformers produced in accordance with requirements of EN/IEC 61558-2-6
Insulation class	B(130°C) - standard up to 5 kVA, F(155°C) - standard above 5 kVA
Climatic class /environmental	C1/E0 - land design C2/E1 - maritime design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Vector group	Yy0 - standard
Primary voltage	up to 1000 V
Secondary voltage	up to 50 V
Terminals	screw terminal blocks with the cross section from 4 mm ² up to 150 mm ² or copper bus bars
Fastening	by means of angles

Three-phase safety isolating transformers are assigned for supplying electric devices with safe voltage.

In standard design, the transformers are adjusted to fastening by means of screwed angles.

The windings terminals may be placed on one side only, or on both sides of a transformer. Upon request, the transformers may be assembled in enclosures with the protection degree of IP 23, IP 44 and IP 54.

Technical data of three-phase safety isolating transformers ET3o **

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
ET3o_* - 0,05	0,05	100	60	122	81	41	5 x 8	1,4	A
ET3o_* - 0,15	0,15	125	71	140	100	55	5 x 8	2,6	A
ET3o_* - 0,3	0,3	155	91	156	130	71	8 x 12	5,1	A
ET3o_* - 0,5	0,5	195	102	185	173	82	8 x 11	7,5	A
ET3o_* - 0,63	0,63	195	112	185	173	92	8 x 11	9,5	A
ET3o_* - 0,8	0,8	195	112	185	173	92	8 x 11	10,5	A
ET3o_* - 1,0	1,0	210	105	200	173	85	8 x 11	12	A
ET3o_* - 1,5	1,5	240	131	226	198	105	11 x 15	16	A
ET3o_* - 2,0	2,0	240	146	226	198	120	11 x 15	22	A
ET3o_* - 2,5	2,5	261	140	239	198	114	11 x 15	26	A
ET3o_* - 3,0	3,0	300	152	274	240	122	11 x 15	30	A
ET3o_* - 4,0	4,0	300	165	274	240	135	11 x 15	38	A
ET3o_* - 5,0	5,0	300	192	274	240	160	11 x 15	49	A
ET3o_* - 6,3	6,3	360	230	365	310	125	11 x 15	47	B
ET3o_* - 7,5	7,5	360	237	365	310	132	11 x 15	54	B
ET3o_* - 8,0	8,0	360	247	365	310	142	11 x 15	60	B
ET3o_* - 10,0	10,0	360	270	365	310	162	11 x 15	71	B
ET3o_* - 12,5	12,5	420	255	425	370	158	11 x 15	82	B
ET3o_* - 15,0	15,0	420	265	425	370	168	11 x 15	91	B
ET3o_* - 16,0	16,0	420	265	425	370	168	11 x 15	92	B

*) - for transformer design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3)

the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 400//24 operating under normal conditions.

For other conditions and data the values may change

Note:

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If requested in advance, it is possible to manufacture a choke in other version.



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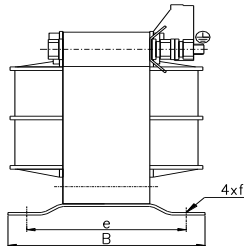
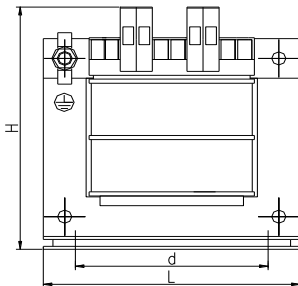
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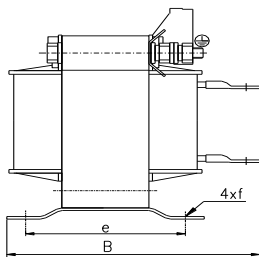


Single-phase isolating transformers
with the power range between 0,05 kVA and 2,5 kVA

ET1o



Design with screw terminals



Design with cable lugs

Technical data:

Design	Isolating transformers are produced in accordance with requirements of EN/IEC 61558-2-4 standard
Insulation class	B(130°C) - standard up to 1,6 kVA, F(155°C) - standard above 1,6 kVA
Climatic class / environmental class	C1/E0 - land design C2/E1 - maritime design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Primary voltage	up to 1000 V
Secondary voltage	up to 500 V
Terminals	Screw terminals with nominal cross section from 1,5 mm ² up to 10 mm ² or cable lugs for rated current exceeding 61 A
Fastening	by means of base plate or angles

Isolating transformers are assigned for supplying electric devices, if separation of electrical circuits required.

In standard design, the transformers are adjusted to fastening by means of a base welded into core or screwed angles.

If agreed, the transformers may have more tapings. The windings terminals may be placed on one side only, or on both sides of a transformer. Upon request, the transformers may be assembled in enclosures with the protection degree of IP 23, IP 44 and IP 54 with the possibility to insert supply cables through glands.

Technical data of single-phase isolating transformers ET1o **

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
ET1o_* - 0,050	0,050	78	64	90	56	48	4,8 x 9	1,2
ET1o_* - 0,063	0,063	84	66	93	64	52	4,8 x 8	1,4
ET1o_* - 0,075	0,075	84	66	93	64	52	4,8 x 8	1,5
ET1o_* - 0,10	0,10	84	80	93	64	63	4,8 x 8	2,0
ET1o_* - 0,13	0,13	105	80	111	81	63	5,8 x 12	2,8
ET1o_* - 0,16	0,16	105	80	111	81	63	5,8 x 12	2,9
ET1o_* - 0,20	0,20	105	88	111	81	71	5,8 x 12	3,4
ET1o_* - 0,25	0,25	105	103	111	81	86	5,8 x 12	4,3
ET1o_* - 0,32	0,32	120	95	122	90	77	5,8 x 12	4,4
ET1o_* - 0,40	0,40	120	107	122	90	89	5,8 x 12	5,3
ET1o_* - 0,50	0,50	120	137	127	90	109	5,8 x 12	6,9
ET1o_* - 0,63	0,63	150	117	149	122	89	7 x 15	7,8
ET1o_* - 0,80	0,80	150	134	149	122	106	7 x 15	9,8
ET1o_* - 1,00	1,00	150	210	144	122	133	7 x 15	12,9
ET1o_* - 1,30	1,30	174	175	156	135	116	7 x 13	15,7
ET1o_* - 1,60	1,60	174	195	156	135	136	7 x 13	20
ET1o_* - 2,00	2,00	192	195	178	150	131	10 x 18	22
ET1o_* - 2,50	2,50	192	210	178	150	149	10 x 18	25,5

*) - for transformer design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3) the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 230//230 operating under normal conditions.

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.

Supplier **Transmotor ApS**

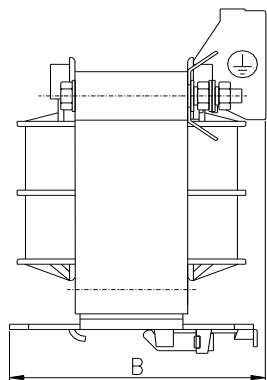
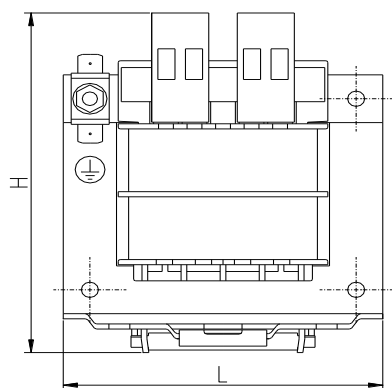
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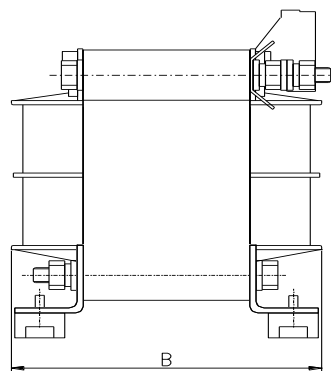
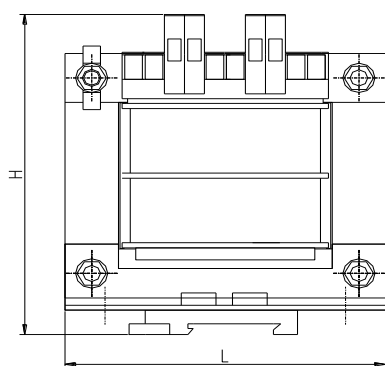
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ET/2010/V/07



Design with quick-to-fasten clamp



Design with the fastening adapter type GA35

Technical data:

Design	Isolating transformers produced in accordance with requirements of EN/IEC 61558-2-4
Insulation class	B(130°C) standard
Climatic class /environmental class	C2/E0 - land design C2/E1 - maritime design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Primary voltage	up to 1000 V
Secondary voltage	up to 500 V
Terminals	Screw terminals with nominal cross section from 1,5 mm ² up to 4,0 mm ²
Fastening	quick-to-fasten clamps for mounting rails TS 35 according to EN 50022

Isolating transformers are assigned for supplying electric devices, if separation of electrical circuits required.

Special quick-to-fasten clamp enables the quick and easy mounting on the rail TS35 according to EN 50022. If agreed, the transformers may have more tapplings. The windings terminals may be placed on one side only, or on both sides of a transformer.

Technical data of single-phase isolating transformers ET1o **

Type	Power [kVA]	L [mm]	B _{max} [mm]	H [mm]	Weight [kg]
ET1o_* - 0,050	0,050	78	64	90	1,2
ET1o_* - 0,063	0,063	84	66	93	1,4
ET1o_* - 0,075	0,075	84	66	93	1,5
ET1o_* - 0,10	0,10	84	80	93	2,0
ET1o_* - 0,13	0,13	105	80	111	2,8
ET1o_* - 0,16	0,16	105	80	111	2,9
ET1o_* - 0,20	0,20	105	88	111	3,4
ET1o_* - 0,25	0,25	105	103	111	4,3
ET1o_* - 0,32	0,32	120	95	122	4,4
ET1o_* - 0,40	0,40	120	107	122	5,3
ET1o_* - 0,50	0,50	120	137	127	6,9

*) - for transformer design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3)

the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 230//230 operating under normal conditions.

For other conditions and data the values may change

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.

Supplier: Transmotor ApS

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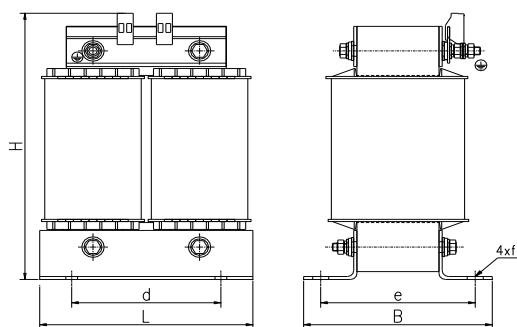
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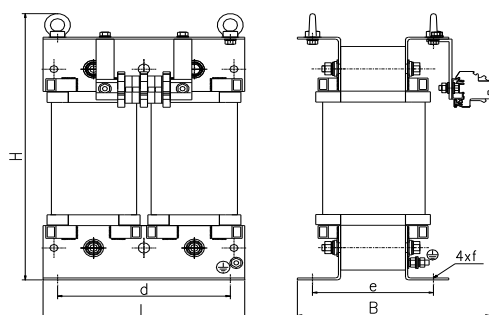


Single-phase isolating transformers with the power range between 2,0 and 25,0 kVA

ET1o



Design A for the power up to 6,3 kVA



Design B for the power above 6,3 kVA

Technical data:

Design	Isolating transformers produced in accordance with requirements of EN/IEC 61558-2-4
Insulation class	B(130°C) - standard up to 5 kVA, F(155°C) - standard above 5 kVA
Climatic class / environmental class	C1/E0 - land design C2/E1 - maritime design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Primary voltage	up to 1000 V
Secondary voltage	up to 500 V
Terminals	screw terminal blocks with the cross section from 1,5 mm ² up to 150 mm ² or copper bus bars
Fastening	by means of angles

Isolating transformers are assigned for supplying electric devices, if separation of electrical circuits required. In standard design, the transformers are adjusted to fastening by means of screwed angles. If agreed, the transformers may have more tappings. The windings terminals may be placed on one side only, or on both sides of a transformer. Primary and secondary windings are separated by copper shield.

Upon request, the transformers may be assembled in enclosures with the protection degree of IP 23, IP 44 and IP 54 with the possibility to insert supply cables through glands.

Technical data of single-phase isolating transformers ET1o **

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
ET1o_* - 2,0	2,0	178	140	240	128	114	11 x 15	17	A
ET1o_* - 2,5	2,5	178	152	240	128	126	11 x 15	21	A
ET1o_* - 3,0	3,0	200	165	271	140	133	11 x 15	23	A
ET1o_* - 3,5	3,5	200	177	271	140	145	11 x 15	27	A
ET1o_* - 4,0	4,0	200	195	271	140	160	11 x 15	30	A
ET1o_* - 5,0	5,0	240	165	323	200	127	11 x 15	35	A
ET1o_* - 6,3	6,3	240	180	323	200	142	11 x 15	40	A
ET1o_* - 7,5	7,5	280	260	425	240	151	11 x 15	46	B
ET1o_* - 8,0	8,0	280	260	425	240	151	11 x 15	48	B
ET1o_* - 10,0	10,0	280	275	425	240	168	11 x 15	56	B
ET1o_* - 12,0	12,0	280	290	425	240	178	11 x 15	63	B
ET1o_* - 15,0	15,0	320	300	485	270	190	13 x 18	74	B
ET1o_* - 16,0	16,0	320	300	485	270	190	13 x 18	76	B
ET1o_* - 20,0	20,0	360	330	545	310	220	13 x 18	98	B
ET1o_* - 25,0	25,0	360	350	545	310	240	13 x 18	120	B

*) - for transformer design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3) the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 230//230 operating under normal conditions. For other conditions and data the values may change

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered. If requested in advance, it is possible to manufacture a choke in other version.

Supplier: Transmotor ApS

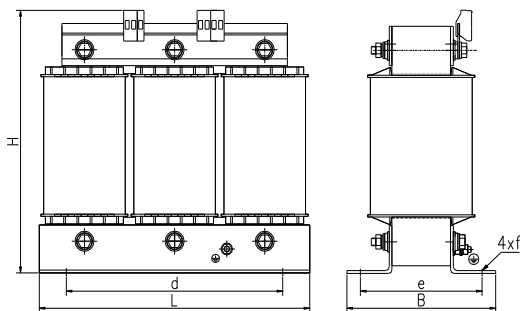
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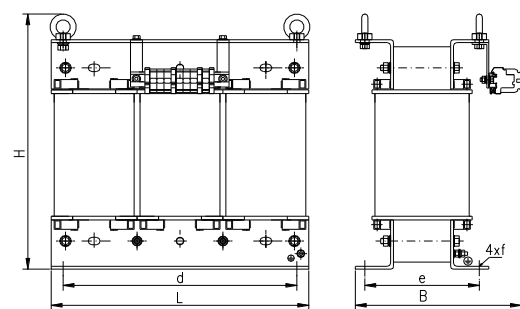
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ET/2010/V/09



Design A for the power up to 5 kVA



Design B for the power above 5 kVA

Technical data:

Design	Isolating transformers produced in accordance with requirements of EN/IEC 61558-2-4
Insulation class	B(130°C) - standard up to 5 kVA, F(155°C) - standard above 5 kVA
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Vector group	Yy0 - standard
Primary voltage	up to 1000 V
Secondary voltage	up to 500 V
Terminals	screw terminal blocks with the cross section from 4 mm ² up to 150 mm ² or copper bus bars
Fastening	by means of angles

Isolating transformers are assigned for supplying electric devices, if separation of electrical circuits required. In standard design, the transformers are adjusted to fastening by means of screwed angles. The windings terminals may be placed on one side only, or on both sides of a transformer. Primary and secondary windings are separated by copper shield.

Upon request, the transformers may be assembled in enclosures with the protection degree of IP 23, IP 44 and IP 54.

Technical data of three-phase isolating transformers ET3o **

Type	Power [kVA]	L [mm]	B _{max} [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
ET3o * - 0,05	0,05	100	60	122	81	41	5 x 8	1,4	A
ET3o * - 0,15	0,15	125	71	140	100	55	5 x 8	2,6	A
ET3o * - 0,3	0,3	155	91	156	130	71	8 x 12	5,1	A
ET3o * - 0,5	0,5	195	102	185	173	82	8 x 11	7,5	A
ET3o * - 0,63	0,63	195	112	185	173	92	8 x 11	9,5	A
ET3o * - 0,8	0,8	195	112	185	173	92	8 x 11	10,5	A
ET3o * - 1,0	1,0	210	105	200	173	85	8 x 11	12	A
ET3o * - 1,5	1,5	240	131	226	198	105	11 x 15	16	A
ET3o * - 2,0	2,0	240	146	226	198	120	11 x 15	22	A
ET3o * - 2,5	2,5	261	140	239	198	114	11 x 15	26	A
ET3o * - 3,0	3,0	300	152	274	240	122	11 x 15	30	A
ET3o * - 4,0	4,0	300	165	274	240	135	11 x 15	38	A
ET3o * - 5,0	5,0	300	192	274	240	160	11 x 15	49	A
ET3o * - 6,3	6,3	360	230	365	310	125	11 x 15	47	B
ET3o * - 7,5	7,5	360	237	365	310	132	11 x 15	54	B
ET3o * - 8,0	8,0	360	247	365	310	142	11 x 15	60	B
ET3o * - 10,0	10,0	360	270	365	310	162	11 x 15	71	B
ET3o * - 12,5	12,5	420	255	425	370	158	11 x 15	82	B
ET3o * - 15,0	15,0	420	265	425	370	168	11 x 15	91	B
ET3o * - 16,0	16,0	420	265	425	370	168	11 x 15	92	B
ET3o * - 20,0	20,0	480	290	485	430	190	13 x 18	117	B
ET3o * - 22,5	22,5	480	300	485	430	200	13 x 18	129	B
ET3o * - 25,0	25,0	480	305	485	430	210	13 x 18	139	B
ET3o * - 30,0	30,0	480	315	485	430	220	13 x 18	154	B
ET3o * - 40,0	40,0	540	350	545	490	240	13 x 18	195	B

*) - for transformer design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3) the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 400//400 operating under normal conditions.

For other conditions and data the values may change

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.



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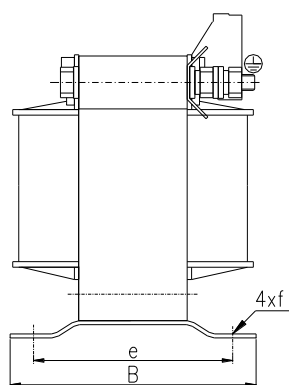
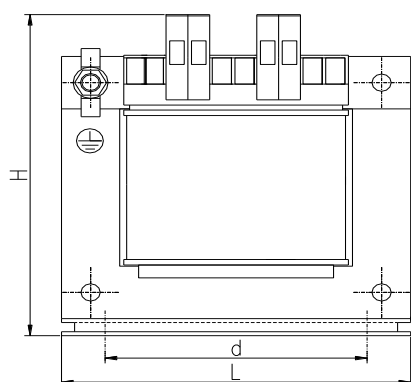
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Single-phase separating transformers
with the power range between 0,05 kVA and 2,5 kVA

ET1S



Technical data:

Design	Separating transformers are produced in accordance with requirements of EN/IEC 61558-2-1; EN/IEC 60726
Insulation class	B(130°C) - standard up to 1,6 kVA, F(155°C) - standard above 1,6 kVA
Climatic class / environmental class	C1/E0 - land design C2/E1 - maritime design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Primary voltage	up to 1000 V
Secondary voltage	up to 1000 V
Terminals	Screw terminals with nominal cross section from 1,5 mm ² up to 10 mm ² or cable lugs for rated current exceeding 61 A
Fastening	by means of base plate or angles

Separating transformers are assigned for supplying lighting circuits, control, etc. In standard design, the transformers are adjusted to fastening by means of a base welded into core or screwed angles.

If agreed, the transformers may have more tapplings. The windings terminals may be placed on one side only, or on both sides of a transformer.

Upon request, the transformers may be assembled in enclosures with the protection degree of IP 23, IP 44 and IP 54 with the possibility to insert supply cables through glands.

Technical data of single-phase separating transformers ET1S **

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
ET1S_* - 0,050	0,050	78	64	90	56	48	4,8 x 9	1,2
ET1S_* - 0,063	0,063	84	66	93	64	52	4,8 x 9	1,5
ET1S_* - 0,075	0,075	84	66	93	64	52	4,8 x 9	1,7
ET1S_* - 0,10	0,10	84	80	93	64	63	4,8 x 9	2,1
ET1S_* - 0,13	0,13	105	80	111	81	63	5,8 x 12	2,9
ET1S_* - 0,16	0,16	105	80	111	81	63	5,8 x 12	3,2
ET1S_* - 0,20	0,20	105	88	111	81	71	5,8 x 12	3,4
ET1S_* - 0,25	0,25	105	103	111	81	86	5,8 x 12	4,2
ET1S_* - 0,32	0,32	120	95	122	90	77	5,8 x 12	4,4
ET1S_* - 0,40	0,40	120	107	122	90	89	5,8 x 12	5,3
ET1S_* - 0,50	0,50	120	137	127	90	109	5,8 x 12	7,1
ET1S_* - 0,63	0,63	150	117	149	122	89	7 x 15	7,9
ET1S_* - 0,80	0,80	150	134	149	122	106	7 x 15	10,2
ET1S_* - 1,00	1,00	150	210	144	122	133	7 x 15	13,1
ET1S_* - 1,30	1,30	174	175	156	135	116	7 x 15	14,7
ET1S_* - 1,60	1,60	174	195	156	135	136	7 x 15	18,9
ET1S_* - 2,00	2,00	192	195	178	150	131	10 x 18	22
ET1S_* - 2,50	2,50	192	210	178	150	149	10 x 18	24

*) - for transformer design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3) the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 400//230 operating under normal conditions. For other conditions and data the values may change

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered. If requested in advance, it is possible to manufacture a choke in other version.

Supplier: Transmotor ApS

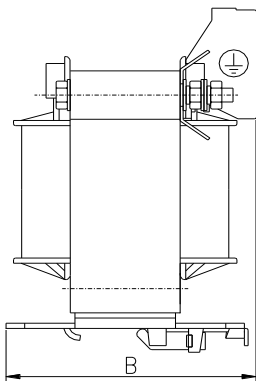
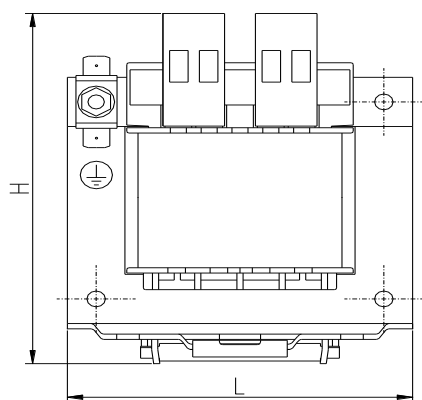
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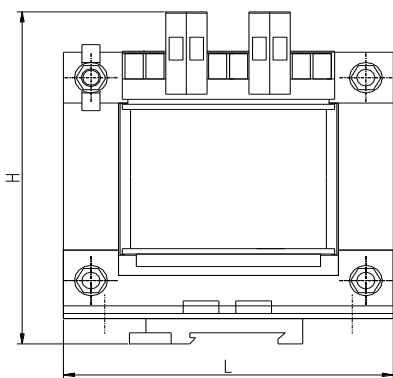
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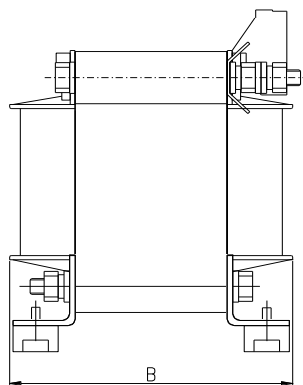
ET/2010/V/11



Design with quick-to-fasten clamp



Design with the fastening adapter type GA35

**Technical data:**

Design	Separating transformers are produced in accordance with requirements of EN/IEC 61558-2-1
Insulation class	B(130°C) - standard
Climatic class / environmental class	C1/E0 - land design C2/E1 - maritime design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Primary voltage	up to 1000 V
Secondary voltage	up to 1000 V
Terminals	Screw terminals with nominal cross section from 1,5 mm ² up to 10 mm ²
Fastening	quick-to-fasten clamps for mounting rails TS 35 according to EN 50022

Separating transformers are assigned for supplying lighting circuits, control, etc. Special quick-to-fasten clamp enables the quick and easy mounting on the rail TS35 according to EN 50022. If agreed, the transformers may have more tapplings. The windings terminals may be placed on one side only, or on both sides of a transformer.

Technical data of single-phase separating transformers ET1S **

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	Weight [kg]
ET1S_* - 0,050	0,050	78	64	90	1,2
ET1S_* - 0,063	0,063	84	66	93	1,4
ET1S_* - 0,075	0,075	84	66	93	1,5
ET1S_* - 0,10	0,10	84	80	93	2,0
ET1S_* - 0,13	0,13	105	80	111	2,8
ET1S_* - 0,16	0,16	105	80	111	2,9
ET1S_* - 0,20	0,20	105	88	111	3,4
ET1S_* - 0,25	0,25	105	103	111	4,3
ET1S_* - 0,32	0,32	120	95	122	4,4
ET1S_* - 0,40	0,40	120	107	122	5,3
ET1S_* - 0,50	0,50	120	137	127	6,9

*) - for transformer design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3)

the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 400//230 operating under normal conditions.

For other conditions and data the values may change

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

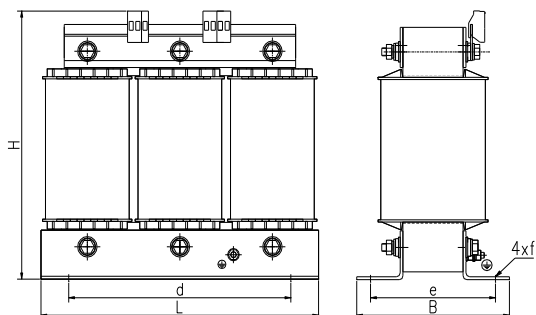


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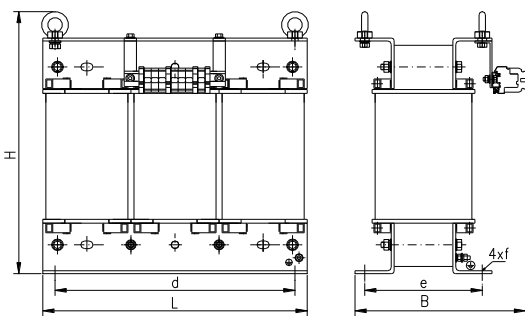
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Design A for the power up to 6,3 kVA



Design B for the power above 6,3 kVA

Technical data:

Design	Separating transformers are produced in accordance with requirements of: EN/IEC 61558-2-1; EN/IEC 60726
Insulation class	B(130°C) - standard up to 5 kVA, F(155°C) - standard above 5 kVA
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Vector group	Yy0 - standard
Primary voltage	up to 1000 V
Secondary voltage	up to 1000 V
Terminals	screw terminal blocks with the cross section from 4 mm ² up to 150 mm ² or copper bus bars
Fastening	by means of angles

Separating transformers are assigned for supplying lighting circuits, control, etc. In standard design, the transformers are adjusted to fastening by means of screwed angles.

The windings terminals may be placed on one side only, or on both sides of a transformer.

Upon request, the transformers may be assembled in enclosures with the protection degree of IP 23, IP 44 and IP 54.

Technical data of three-phase separating transformers ET3S **

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
ET3S_* - 0,05	0,05	100	60	122	81	41	5 x 8	1,4	A
ET3S_* - 0,15	0,15	125	71	140	100	55	5 x 8	2,6	A
ET3S_* - 0,3	0,3	155	91	156	130	71	8 x 12	5,1	A
ET3S_* - 0,5	0,5	195	102	185	173	82	8 x 11	7,5	A
ET3S_* - 0,63	0,63	195	112	185	173	92	8 x 11	9,5	A
ET3S_* - 0,8	0,8	195	112	185	173	92	8 x 11	10,5	A
ET3S_* - 1,0	1,0	210	105	200	173	85	8 x 11	12	A
ET3S_* - 1,5	1,5	240	131	226	198	105	11 x 15	16	A
ET3S_* - 2,0	2,0	240	146	226	198	120	11 x 15	22	A
ET3S_* - 2,5	2,5	261	140	239	198	114	11 x 15	26	A
ET3S_* - 3,0	3,0	300	152	274	240	122	11 x 15	30	A
ET3S_* - 4,0	4,0	300	165	274	240	135	11 x 15	38	A
ET3S_* - 5,0	5,0	300	192	274	240	160	11 x 15	49	A
ET3S_* - 6,3	6,3	360	230	365	310	125	11 x 15	47	B
ET3S_* - 7,5	7,5	360	237	365	310	132	11 x 15	54	B
ET3S_* - 8,0	8,0	360	247	365	310	142	11 x 15	60	B
ET3S_* - 10,0	10,0	360	270	365	310	162	11 x 15	71	B

*) - for transformer design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3)

the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 400//400 operating under normal conditions. For other conditions and data the values may change

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.

Supplier: **Transmotor ApS**

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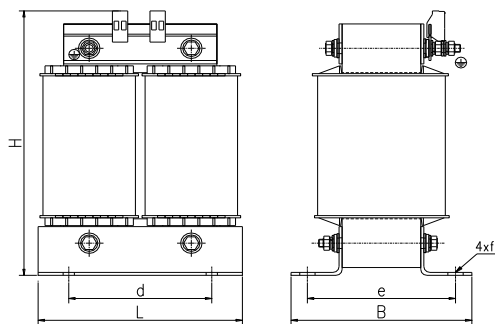


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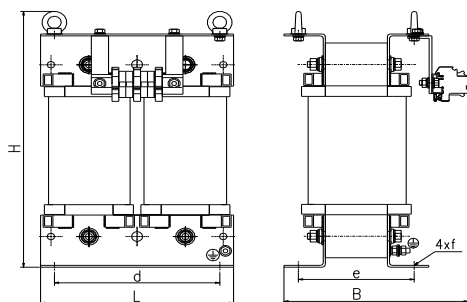


Single-phase power transformers with the power range between 2 kVA and 100 kVA

ET1S



Design A for the power up to 6,3 kVA



Design B for the power above 6,3 kVA

Technical data:

Design	Power transformers are produced in accordance with requirements of: EN/IEC 61558-2-1; EN/IEC 60726
Insulation class	B(130°C) - standard up to 5 kVA, F(155°C) - standard above 5 kVA
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Primary voltage	up to 1000 V
Secondary voltage	up to 1000 V
Terminals	screw terminal blocks or cable lugs or copper bus bars
Fastening	by means of angles

Power transformers are assigned for supplying electric devices, and for application in various industrial branches. In standard design, the transformers are adjusted to fastening by means of a base welded into core or screwed angles.

If agreed, the transformers may have more tapplings. The windings terminals may be placed on one side only, or on both sides of a transformer.

Upon request, the transformers may be assembled in enclosures with the protection degree of IP 23, IP 44 and IP 54 with the possibility to insert supply cables through glands.

Technical data of single-phase power transformers ET1S **

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
ET1S_* - 2,0	2,0	178	140	240	128	114	11 x 15	17	A
ET1S_* - 2,5	2,5	178	152	240	128	126	11 x 15	21	A
ET1S_* - 3,0	3,0	200	165	271	140	133	11 x 15	23	A
ET1S_* - 3,5	3,5	200	177	271	140	145	11 x 15	27	A
ET1S_* - 4,0	4,0	200	192	271	140	160	11 x 15	30	A
ET1S_* - 5,0	5,0	240	165	323	200	127	11 x 15	35	A
ET1S_* - 6,3	6,3	240	180	323	200	142	11 x 15	40	A
ET1S_* - 7,5	7,5	280	260	425	240	151	11 x 15	46	B
ET1S_* - 8,0	8,0	280	260	425	240	151	11 x 15	48	B
ET1S_* - 10,0	10	280	275	425	240	168	11 x 15	56	B
ET1S_* - 12,0	12	280	290	425	240	178	11 x 15	63	B
ET1S_* - 15,0	15	320	300	485	270	190	13 x 18	74	B
ET1S_* - 16,0	16	320	300	485	270	190	13 x 18	76	B
ET1S_* - 20,0	20	360	330	545	310	220	13 x 18	98	B
ET1S_* - 25,0	25	360	350	545	310	240	13 x 18	120	B
ET1S_* - 30,0	30	360	370	545	310	240	13 x 18	130	B
ET1S_* - 40,0	40	360	420	545	310	270	13 x 18	160	B
ET1S_* - 50,0	50	460	420	615	360	220	13 x 18	190	B
ET1S_* - 63,0	63	460	450	615	360	240	13 x 18	218	B
ET1S_* - 75,0	75	460	480	615	360	270	13 x 18	254	B
ET1S_* - 80,0	80	480	480	715	380	260	17 x 25	268	B
ET1S_* - 100	100	480	410	715	380	290	17 x 25	334	B

*) - for transformer design with climatic/environmental class C2/E2 (maritime design W/3 or tropical design T/3)
the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 400//400 operating under normal conditions. For other conditions and data the values may change

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.



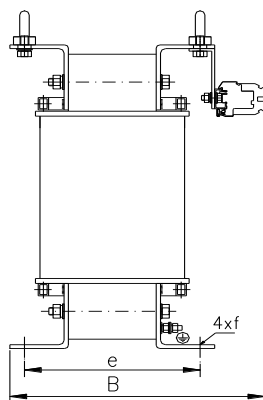
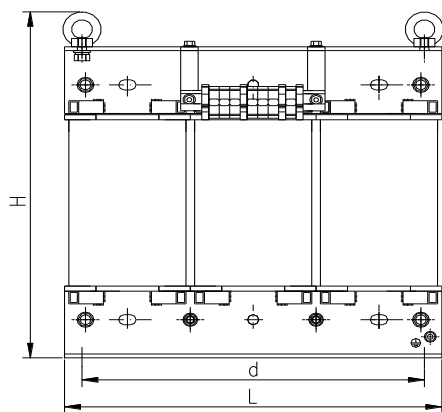
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ET/2010/V/14



Design for power up to 160kVA

Technical data:

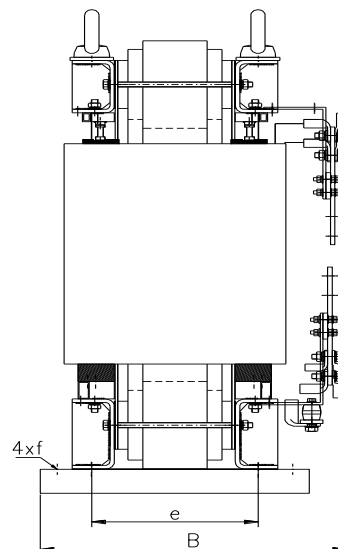
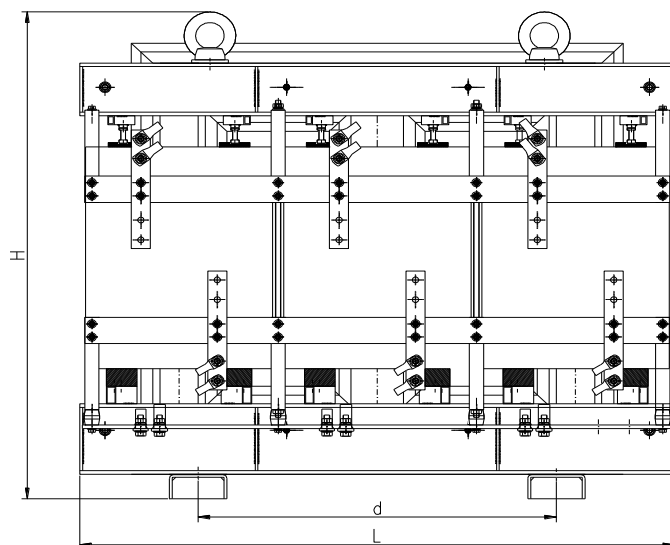
Design	Power transformers are produced in accordance with requirements of: EN/IEC 60726; EN/IEC 60076
Insulation class	F(155°C) - standard
Ambient temperature	40°C
Climatic class	C1/E0 - land design
/environmental class	C2/E1 - maritime design
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Vector group	Yy0 - standard
Primary voltage	up to 1000 V
Secondary voltage	up to 1000 V
Terminals	screw terminal blocks or cable lugs or copper bus bars

Power transformers are assigned for supplying power electronic devices, and for application in other industrial branches. In standard design, the transformers are adjusted to fastening by means of a base welded into core or screwed angles.

If agreed, the transformers may have more tapplings. The windings terminals may be placed on one side only, or on both sides of a transformer.

Upon request, the transformers may be assembled in enclosures with the protection degree of IP 23, IP 44 and IP 54 with the possibility to insert supply cables through glands.

Standard enclosures have powder coating - colour RAL 7032.



Design for power above 160kVA

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

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Three-phase power transformers power between 10 kVA and 1600 kVA, insulation class F

ET3S

Technical data of power transformers typ ET3S, insulation class F, voltage ratio 400V//400V**

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
ET3S_* - 10	10	360	270	365	310	162	11x15	71
ET3S_* - 12,5	12,5	420	255	425	370	158	11x15	82
ET3S_* - 15	15	420	265	425	370	168	11x15	91
ET3S_* - 16	16	420	265	425	370	168	11x15	92
ET3S_* - 20	20	480	290	485	430	190	13x18	117
ET3S_* - 22,5	22,5	480	300	485	430	200	13x18	129
ET3S_* - 25	25	480	305	485	430	210	13x18	139
ET3S_* - 30	30	480	315	485	430	220	13x18	154
ET3S_* - 40	40	540	350	545	490	240	13x18	195
ET3S_* - 50	50	540	370	545	490	260	13x18	230
ET3S_* - 63	63	540	390	545	490	280	13x18	265
ET3S_* - 75	75	690	400	615	590	220	13x18	300
ET3S_* - 80	80	690	400	615	590	220	13x18	305
ET3S_* - 100	100	690	400	615	590	250	13x18	365
ET3S_* - 115	115	690	420	615	590	270	13x18	415
ET3S_* - 120	120	720	410	715	620	260	17x25	425
ET3S_* - 125	125	720	410	715	620	260	17x25	430
ET3S_* - 160	160	720	450	715	620	300	17x25	550
ET3S_* - 200	200	980	460	860	700	375	4xfi17	690
ET3S_* - 225	225	1035	480	905	760	375	4xfi17	800
ET3S_* - 250	250	1035	480	940	760	375	4xfi17	830
ET3S_* - 315	315	1140	500	1010	760	394	4xfi17	1025
ET3S_* - 400	400	1200	525	1065	760	394	4xfi17	1225
ET3S_* - 500	500	1245	550	1100	760	416	4xfi17	1430
ET3S_* - 630	630	1290	560	1260	760	416	4xfi17	1810
ET3S_* - 800	800	1410	600	1285	760	433	4xfi17	2175
ET3S_* - 1000	1000	1455	610	1565	760	433	4xfi17	2695
ET3S_* - 1250	1250	1620	650	1500	760	473	4xfi17	3350
ET3S_* - 1600	1600	1670	700	1580	760	473	4xfi17	3830

*) - for transformer design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3)

the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 400//400 at 50 Hz and operating under normal conditions. For other conditions and data the values may change

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.



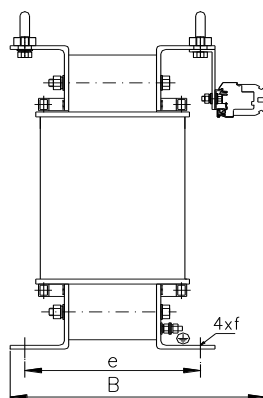
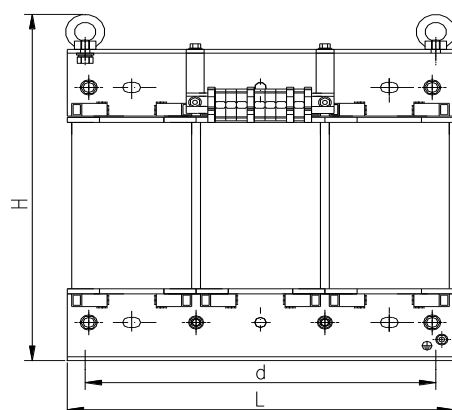
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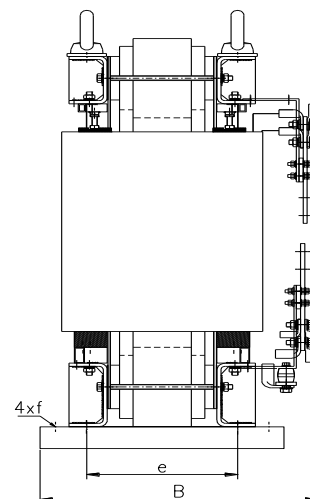
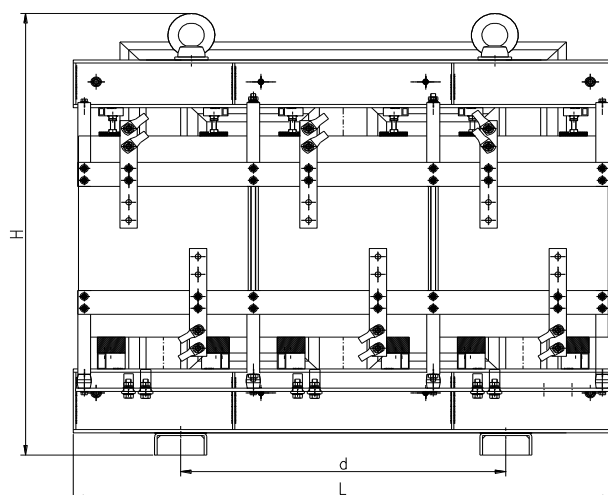
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Design for power up to 160kVA



Design for power above 160kVA

Technical data:

Design	Power transformers are produced in accordance with requirements of: EN/IEC 60726; EN/IEC 60076
Insulation class	H(180°C)
Ambient temperature	40°C
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Vector group	Yy0 - standard
Primary voltage	up to 1000 V
Secondary voltage	up to 1000 V
Terminals	screw terminal blocks or cable lugs or copper bus bars

Power transformers are assigned for supplying power electronic devices, and for application in other industrial branches. In standard design, the transformers are adjusted to fastening by means of screwed angles.

If agreed, the transformers may have more tapplings. The windings terminals may be placed on one side only, or on both sides of a transformer. Upon request, the transformers may be assembled in enclosures with the protection degree of IP 23, IP 44 and IP 54 with the possibility to insert supply cables through glands. Standard enclosures have powder coating - colour RAL 7032.

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.

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Technical data of power transformers typ ET3S, insulation class H, voltage ratio 400V//400V**

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
ET3S_* - 40	40	540	320	545	490	220	13x18	171
ET3S_* - 50	50	540	350	545	490	240	13x18	202
ET3S_* - 63	63	540	370	545	490	260	13x18	235
ET3S_* - 75	75	690	390	615	590	210	13x18	271
ET3S_* - 80	80	690	400	615	590	220	13x18	288
ET3S_* - 100	100	690	380	615	590	230	13x18	330
ET3S_* - 115	115	690	410	615	590	260	13x18	380
ET3S_* - 120	120	720	400	715	620	250	17x25	390
ET3S_* - 125	125	720	410	715	620	250	17x25	400
ET3S_* - 160	160	720	440	715	620	290	17x25	495
ET3S_* - 200	200	980	460	860	700	375	4xfi17	660
ET3S_* - 225	225	980	460	860	700	375	4xfi17	690
ET3S_* - 250	250	1035	470	910	760	375	4xfi17	790
ET3S_* - 315	315	1080	480	980	760	375	4xfi17	915
ET3S_* - 400	400	1140	505	1010	760	394	4xfi17	1105
ET3S_* - 500	500	1245	545	1100	760	416	4xfi17	1350
ET3S_* - 630	630	1290	555	1210	760	416	4xfi17	1685
ET3S_* - 800	800	1410	600	1220	760	433	4xfi17	1980
ET3S_* - 1000	1000	1455	610	1420	760	433	4xfi17	2440
ET3S_* - 1250	1250	1620	650	1390	760	473	4xfi17	3080
ET3S_* - 1600	1600	1670	700	1500	760	473	4xfi17	3580

*) - for transformer design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3)
the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared basing on the technical specification for transformer with voltage ratio 400//400 at 50 Hz and operating under normal conditions. For other conditions and data the values may change

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.



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ET/2010/V/18



Three-phase ship transformers with the power range between 10 kVA and 250 kVA 50 Hz

ET3SM

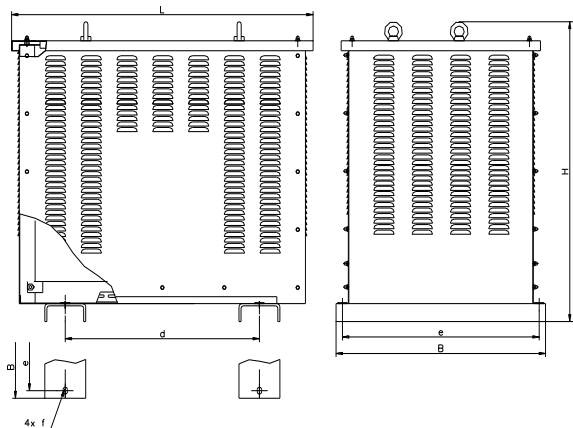


Fig. 1

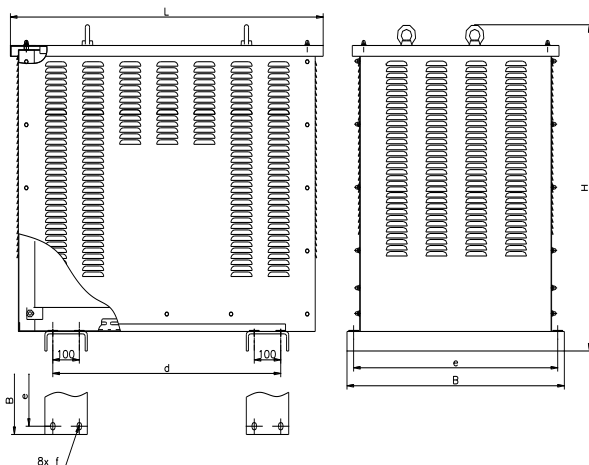


Fig. 2

Technical data:

Design	Transformers are manufactured in the maritime version C2/E2. They are manufactured as per EN 60726, EN 61558 and in accordance with the GL, PRS, RMRS, RINA, BV, LR, DNV and ABS rules, depending upon the requirements stipulated in a purchase order.
Insulation class	H(180°C)
Climatic class /environmental class	C2/E1 - maritime design
Ambient temperature	45°C
Protection degree	IP 23
Frequency	50 Hz
Primary voltage	up to 1000 V (as per agreement)
Secondary voltage	up to 1000 V (as per agreement)
Terminals	screw terminal blocks or copper bus bars
Fastening	by means of angles
Cooling	AN, air, natural
Arrangement	vertical

Three-phase ship transformers are assigned for supplying control and lighting circuits. In standard design they are assembled in an enclosure made of steel sheet with the protection degree of IP 23. The casing structure enables its quick disassembly and easy access to winding tappings. The main cables are directed through the bottom. The casings are powder painted in colour RAL 7032 (or other upon request).



Technical data of three-phase ship transformers type ET3SM

Type	Power [kVA]	Enclosure type	L [mm]	B _{max} [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Fig	Fixing screws	Weight [kg]
ET3SM - 10	10	BG23 - E350P3	620	520	620	370	470	11 x 15	1	4 x M 10	120
ET3SM - 15	15										140
ET3SM - 16	16										140
ET3SM - 20	20	BG23 - E400P3	660	570	710	430	525	13 x 18	1	4 x M 12	155
ET3SM - 25	25										180
ET3SM - 30	30										200
ET3SM - 40	40	BG23 - E440P3	720	630	785	490	585	13 x 18	1	4 x M 12	240
ET3SM - 50	50										280
ET3SM - 63	63										325
ET3SM - 100	100	BG23 - E550P3	870	705	845	590	660	13 x 18	1	4 x M 12	430
ET3SM - 115	115										495
ET3SM - 120	120	BG23 - E580P3	980	780	970	620	730	17 x 25	1	4 x M 16	520
ET3SM - 125	125										540
ET3SM - 130	130										620
ET3SM - 150	150	BG23 - E700P3	1180	820	1100	600 / 800	770	17 x 25	2	8 x M 16	650
ET3SM - 160	160										760
ET3SM - 200	200										950
ET3SM - 225	225	BG23 - E785P3	1280	1000	1310	660 / 860	950	Ø22	2	8 x M 20	1000
ET3SM - 250	250										1050

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.
The transformers may be delivered with approvals issued by qualification societies: GL, LR, PRS, BV, RMRS, RINA, DNV, ABS, GOST.

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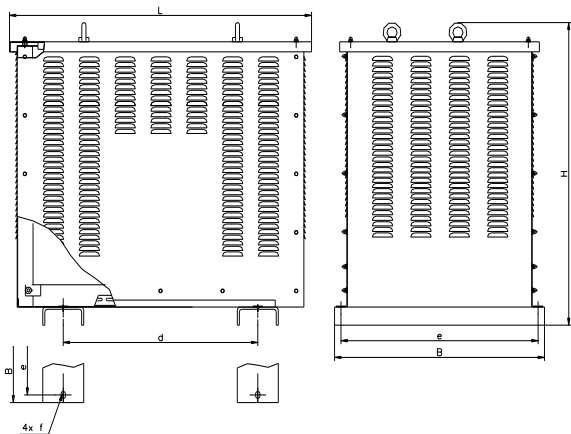


Fig. 1

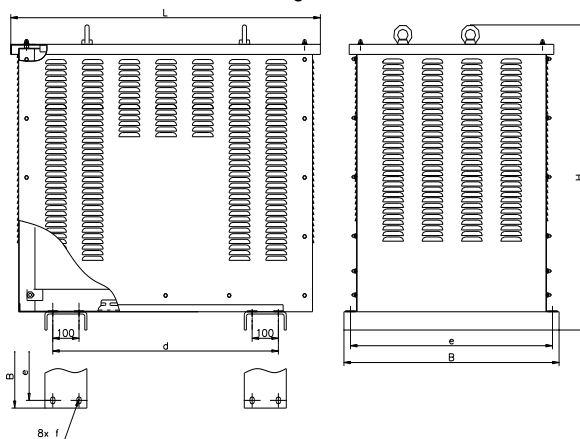


Fig. 2

Technical data:

Design	Transformers are manufactured in the maritime version C2/E2. They are manufactured as per EN 60726, EN 61558 and in accordance with the GL, PRS, RMRS, RINA, BV, LR, DNV and ABS rules, depending upon the requirements stipulated in a purchase order.
Insulation class	H(180°C)
Climatic class /environmental class	C2/E1 - maritime design
Ambient temperature	45°C
Protection degree	IP 23
Frequency	60 Hz
Primary voltage	up to 1000 V (as per agreement)
Secondary voltage	up to 1000 V (as per agreement)
Terminals	screw terminal blocks or copper bus bars
Fastening	by means of angles
Cooling	AN, air, natural
Arrangement	vertical

Three-phase ship transformers are assigned for supplying control and lighting circuits. In standard design they are assembled in an enclosure made of steel sheet with the protection degree of IP 23. The casing structure enables its quick disassembly and easy access to winding tapplings. The main cables are directed through the bottom. The casings are powder painted in colour RAL 7032 (or other upon request).

**Technical data of three-phase ship transformers type ET3SM**

Type	Power [kVA]	Enclosure type	L [mm]	B _{max} [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Fig	Fixing screws	Weight [kg]
ET3SM - 10	10	BG23 - E350P3	620	520	570	370	470	11 x 15	1	4 x M 10	110
ET3SM - 15	15										125
ET3SM - 16	16										125
ET3SM - 20	20										145
ET3SM - 25	25	BG23 - E400P3	660	570	710	430	525	13 x 18	1	4 x M 12	165
ET3SM - 30	30										175
ET3SM - 40	40										235
ET3SM - 50	50	BG23 - E440P3	720	630	785	490	585	13 x 18	1	4 x M 12	265
ET3SM - 63	63										285
ET3SM - 100	100										400
ET3SM - 115	115	BG23 - E550P3	870	705	845	590	660	13 x 18	1	4 x M 12	431
ET3SM - 120	120										450
ET3SM - 125	125										470
ET3SM - 130	130	BG23 - E580P3	980	780	970	620	730	17 x 25	1	4 x M 16	510
ET3SM - 150	150										585
ET3SM - 160	160										630
ET3SM - 200	200	BG23 - E700P3	1180	820	1100	600/800	770	17 x 25	2	8 x M 16	750
ET3SM - 225	225										890
ET3SM - 250	250										920
ET3SM - 270	270	BG23 - E785P3	1280	1000	1310	660/860	950	Ø22	2	8 x M 20	1000
ET3SM - 280	280										1040
ET3SM - 630	630	BG23 - E840P3	1360	1080	1430	660/860	1030	Ø22	2	8 x M 20	1735
ET3SM - 720	720										2000

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

The transformers may be delivered with approvals issued by qualification societies: GL, LR, PRS, BV, RMRS, RINA, DNV, ABS, GOST.



Supplier: Transmotor ApS

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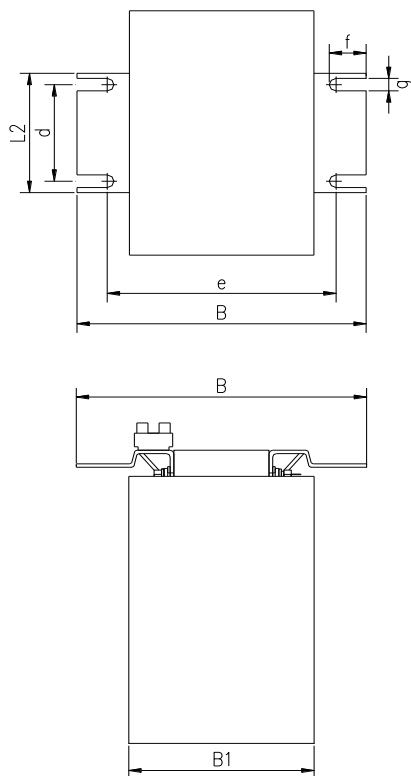
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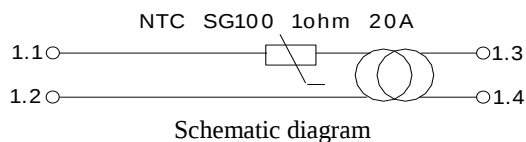
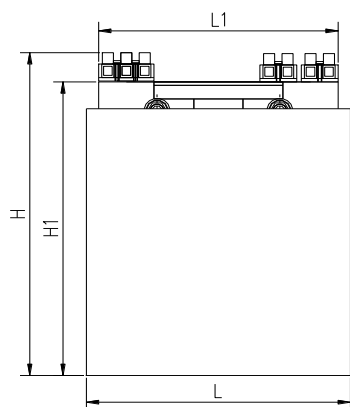
Single-phase isolating transformers for railway engineering

ET1KOLŽ



Technical data:

Design	Isolating transformers ET1KOLŽ are produced in accordance with requirements of EN/IEC 61558-2-4
Insulation class	E(120°C)
Climatic class /environmental class	C2/E1 maritime design
Ambient temperature	10°C
Protection degree	IP 00
Protection class	II
Frequency	50 Hz
Primary voltage	220 V or 230 V
Secondary voltage	220 V or 230 V
Terminals	screw terminals with cross section 10 mm ²
Fastening	by means of angles



The technical solution was worked out bearing in mind the application of the transformers in the systems for protective separation of electric heaters for heating up EOR crossovers from supply devices near the tracks.

The transformers are adjusted for fastening in hanging position, in the EGC-102 boxes near the tracks.

The fastening slots are placed in accordance with the standard hole spacing used in railway devices.

Technical data of single-phase isolating transformers fro railway engineering ET1KOLŽ

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	L 1 [mm]	L 2 [mm]	B 1 [mm]	H1 [mm]	e [mm]	d [mm]	f [mm]	g [mm]	Weight [kg]
ET1KOLŽ - 1,8	1,8	200	210	295	168	105	128	210	170	85	30	9	21
ET1KOLŽ - 2,5	2,5	200	235	280	200	105	138	235	170	85	30	11	28

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.

Supplier: Transmotor ApS

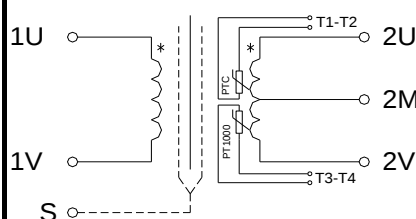
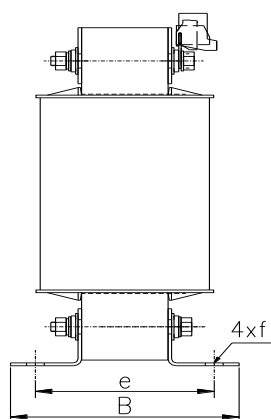
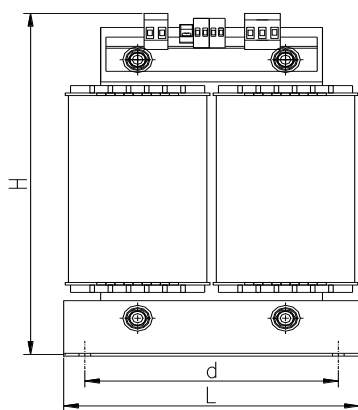
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ET/2010/V/21



Schematic diagram

Technical data:

Design	Single-phase isolating transformers ET1MED are produced in accordance with requirements of EN/IEC 61558-2-15
Insulation class	E(120°C)
Climatic class /environmental class	C1/E0 -land design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	II
Frequency	50 Hz or 60 Hz
Primary voltage	230 V or 220 V
Secondary voltage	230 V or 220 V
Short-circuit voltage	< 3 % U_{RATED}
No-load current	< 3 % I_{RATED}
Leakage current	max. 0,2 mA
Inrush current	$8 \times I_{n\ RMS}$ ($12 \times I_{n\ max}$)
Terminals	screw terminals with the cross section 10 mm ²
Fastening	by means of angles

Isolating transformers type ET1MED are designed for power supply of medical locations (room group 2), in which there is a danger for health or live of patients in case of passage of a small current through a human body.

These transformers meet requirements of standard EN/ IEC 61558-2-15. Standard transformers have a reinforced (double) insulation and there is a shield placed between primary and secondary windings connected to an insulated terminal "S".

Transformers are provided with two type of sensors for temperature control circuits: posistors type PTC and sensors PT1000.

Transformers have an additional central tapping "2M" to connect a relay for control of insulation condition.

Upon request, the transformers may be assembled in enclosures with the protection degree of IP 23, IP 44 and IP 54 with the possibility to insert supply cables through glands.

The fixing method of transformers has to ensure an electrical separation from the base plate (for example by means plastic support designed for rated voltage min. 2,5 kV).

In order to meet customer expectations we also deliver transofmers together with complete system, which monitors medical network IT

The delivered automatic switching system ensures:

- feeding the reserve supply
- control of basic and reserve voltages
- signalling of transformer load
- continuous monitoring of the IT system network insulation resistance
- earth fault localization and signaling
- monitoring of continuity of main circuits of contactor coils

Technical data of single-phase isolation transformers ET1MED

Type	Power [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
ET1MED - 2,5	2,5	200	180	280	140	145	11 x 15	29
ET1MED - 3,15	3,15	200	200	280	140	171	11 x 15	33
ET1MED - 4,0	4,0	240	180	320	200	140	11 x 15	41
ET1MED - 5,0	5,0	240	195	320	200	155	11 x 15	46
ET1MED - 6,3	6,3	240	195	320	200	155	11 x 15	50
ET1MED - 8,0	8,0	280	210	370	240	166	11 x 15	62
ET1MED - 10,0	10,0	280	309	425	240	198	11 x 15	75

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered. If requested in advance, it is possible to manufacture a choke in other version.



Supplier: Transmotor ApS

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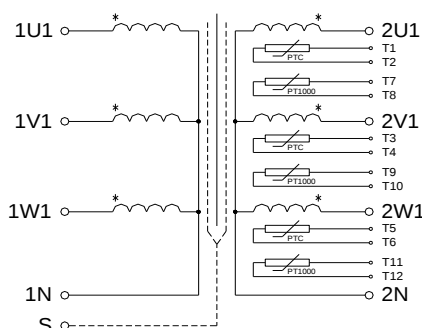
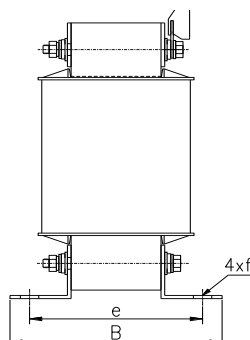
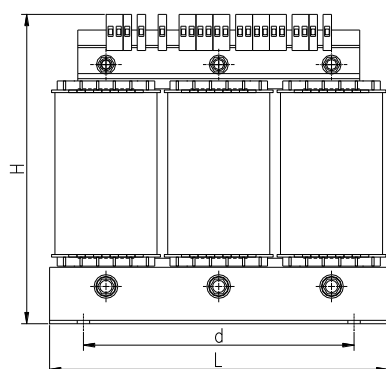
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Three-phase isolating transformers for the supply of medical locations

ET3MED



Schematic diagram

Technical data:

Design	Three-phase isolating transformers ET3MED are produced in accordance with requirements of EN/IEC 61558-2-15
Insulation class	E(120°C)
Climatic class /environmental class	C1/E0 - land design
Ambient temperature	40°C
Protection degree	IP 00
Protection class	II
Frequency	50 Hz
Primary voltage	3 x 400 V
Secondary voltage	3 x 230 V
Short-circuit voltage	< 3 % U_n
No-load current	< 3 % I_n
Leakage current	max. 0,2 mA
Inrush current	8 x $I_{n\text{ RMS}}$ (12 x $I_{n\text{ max}}$)
Terminals	screw terminals with the cross section 10 mm ²
Fastening	by means of angles

Isolating transformers type ET3MED are designed for power supply of medical locations (room group 2), in which there is a danger for health or live of patients in case of passage of a small current through a human body. These transformers meet requirements of standard EN/ IEC 61558-2-15.

Standard transformers have a reinforced (double) insulation and there is a shield placed between primary and secondary windings. Transformers are provided with two type of sensors for temperature control circuits: posistors type PTC and sensors PT1000.

Upon request, the transformers may be assembled in enclosures with the protection degree of IP 23, IP 44 and IP 54.

The fixing method of transformers has to ensure an electrical separation from the base plate (for example by means plastic support designed for rated voltage min. 2,5 kV).

In order to meet customer expectations we also deliver transofmers together with complete system, which monitors medical network IT

The delivered automatic switching system ensures:

- feeding the reserve supply
- control of basic and reserve voltages
- sygnalling of transformer load
- continuous monitoring of the IT system network insulation resistance
- earth fault localization and signaling
- monitoring of continuity of main circuits of contactor coils

Technical data of three-phase isolation transformers ET3MED

Type	Power [kVA]	L [mm]	B _{max} [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
ET3MED - 2,5	2,5	300	190	285	240	145	11 x 15	43
ET3MED - 3,15	3,15	300	200	285	240	160	11 x 15	49
ET3MED - 4,0	4,0	300	210	285	240	171	11 x 15	53
ET3MED - 5,0	5,0	360	245	360	310	140	11 x 15	63
ET3MED - 6,3	6,3	360	250	360	310	140	11 x 15	66
ET3MED - 8,0	8,0	420	285	415	370	166	11 x 15	89
ET3MED - 10,0	10,0	420	300	415	370	181	11 x 15	106

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.

Supplier: **Transmotor ApS**

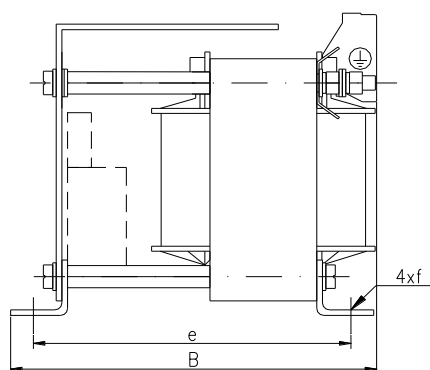
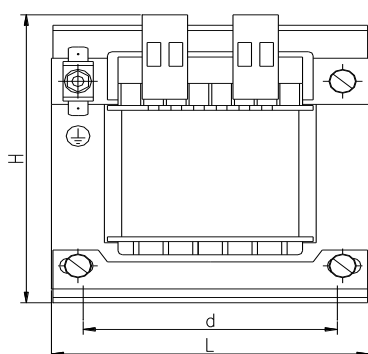
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ET/2010/V/23

**Technical data:**

Design	Power supplies are manufactured in accordance with the requirements of EN/IEC 61558
Insulation class	B(130°C) - standard
Ambient temperature	40°C
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Primary voltage	up to 500 V
Secondary voltage	24 V DC (standard)
Terminals	screw terminals with the cross section up to 16 mm ²
Fastening	by means of angles

Single - phase DC supplies with Graetz's bridge rectifier are designed for users who need for their receivers an unstabilized DC voltage.

DC-supplies are equipped with a LED indicating the current state of the operation. Standard designs of power supplies are prepared for mounting on mounting brackets.

On request power supplies can be supplied with two types of protection: against fault and overload protection.

Technical data of single-phase power supplies EZ1**

Type	U _{DC} [V]	I _{DC} [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
EZ1_* - 0,032	24	1,0	78	105	89	56	85	4,8 x 9	1,2
EZ1_* - 0,050	24	1,5	78	105	89	56	85	4,8 x 9	1,3
EZ1_* - 0,065	24	2,0	84	105	92	64	87	4,8 x 9	1,6
EZ1_* - 0,080	24	2,5	84	105	92	64	100	4,8 x 9	2,0
EZ1_* - 0,10	24	3,0	84	105	92	64	100	4,8 x 9	2,2
EZ1_* - 0,13	24	4,0	105	130	110	84	112	5,8 x 11	2,8
EZ1_* - 0,20	24	6,0	105	137	110	84	120	5,8 x 11	3,6
EZ1_* - 0,25	24	7,5	105	152	110	84	135	5,8 x 11	4,5
EZ1_* - 0,32	24	10,0	120	150	122	90	130	5,8 x 12	4,7
EZ1_* - 0,50	24	15,0	120	185	122	90	162	5,8 x 12	7,5
EZ1_* - 0,65	24	20,0	150	190	156	121	86	7 x 15	8,2
EZ1_* - 0,80	24	25,0	150	205	156	121	103	7 x 15	10,1
EZ1_* - 1,00	24	30,0	150	250	156	121	129	7 x 15	13,5
EZ1_* - 1,30	24	40,0	174	240	183	135	116	7 x 15	16,7
EZ1_* - 1,60	24	50,0	174	260	183	135	136	7 x 15	20,5

*) - for design with climatic/environmental class C2/E2 (maritime design W/3 or tropical design T/3)
the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared based on the technical specification for power supplies with voltage ratio 230//24V DC operating under normal conditions. For other conditions and data the values may change

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.



Supplier: **Transmotor ApS**

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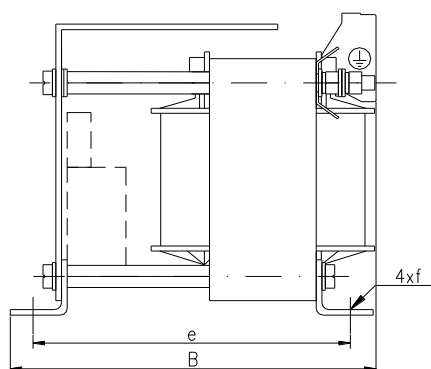
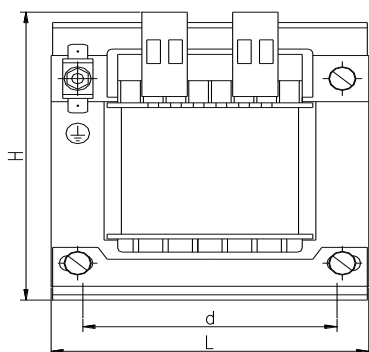
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Single-phase power supplies with reduced ripple factor

EZ1W



Technical data:

Design	Power supplies are manufactured in accordance with the requirements of EN/IEC 61558
Insulation class	B(130°C) - standard
Ambient temperature	40°C
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Primary voltage	up to 500 V
Secondary voltage	24 V DC (standard)
Terminals	screw terminals with the cross section up to 10 mm ²
Fastening	by means of angles

Single - phase DC supplies with Graetz's bridge rectifier are designed for users who need for their receivers an unstabilized DC voltage.

DC-supplies are equipped with a LED indicating the current state of the operation. Standard designs of power supplies are prepared for mounting on mounting brackets.

On request power supplies can be supplied with two types of protection: against fault and overload.

Technical data of single-phase power supplies with reduced ripple factor EZ1W**

Type	U _{DC} [V]	I _{DC} [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
EZ1W_* - 0,04	24	1,0	78	115	89	56	95	4,8 x 9	1,3
EZ1W_* - 0,06	24	1,5	78	115	89	56	95	4,8 x 9	1,4
EZ1W_* - 0,08	24	2,0	84	126	92	64	106	4,8 x 9	1,7
EZ1W_* - 0,10	24	2,5	84	140	92	64	121	4,8 x 9	2,1
EZ1W_* - 0,12	24	3,0	84	140	92	64	121	4,8 x 9	2,3
EZ1W_* - 0,16	24	4,0	105	150	110	84	132	5,8 x 11	3,0
EZ1W_* - 0,24	24	6,0	105	172	110	84	155	5,8 x 11	4,5
EZ1W_* - 0,30	24	7,5	120	170	121	90	150	5,8 x 12	4,6
EZ1W_* - 0,40	24	10,0	120	182	121	90	162	5,8 x 12	5,6
EZ1W_* - 0,60	24	15,0	150	160	156	121	86	7 x 15	8,3
EZ1W_* - 0,80	24	20,0	150	205	156	121	103	7 x 15	10,5
EZ1W_* - 1,00	24	25,0	150	270	156	121	129	7 x 15	14,1
EZ1W_* - 1,20	24	30,0	174	250	183	135	106	7 x 15	15,5

*) - for design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3)

the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared based on the technical specification for power supplies with voltage ratio 230V/24V DC operating under normal conditions. For other conditions and data the values may change

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.

Supplier: **Transmotor ApS**

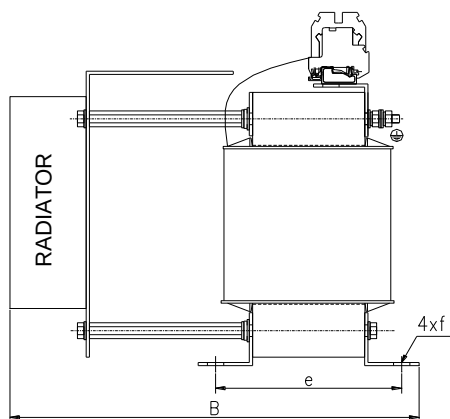
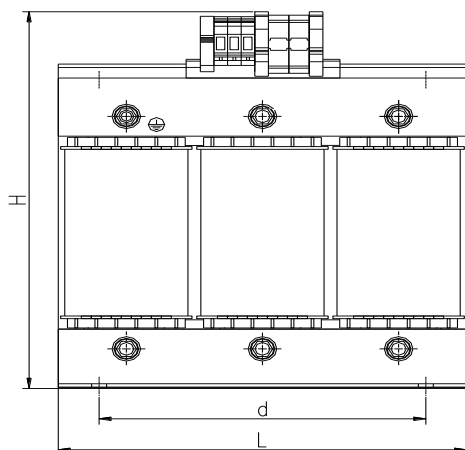
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EZ/2010/V/02

**Technical data:**

Design	Power supplies are manufactured according to requirements of EN/IEC 61558
Insulation class	B(130°C) - standard
Ambient temperature	40°C
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Primary voltage	up to 3 x 500 V
Secondary voltage	24 V DC (standard)
Terminals	screw terminals with the cross section up to 50 mm ²
Fastening	by means of angles

Three-phase DC supplies with Graetz's bridge rectifier with connection B6 are designed for users who need for their receivers an unstabilized DC voltage.

DC-supplies are equipped with a LED indicating the current state of the operation. Standard designs of power supplies are prepared for mounting on mounting brackets.

On request power supplies can be supplied with two types of protection: against fault and overload protection.

Technical data of three-phase power supplies EZ3**

Type	U _{DC} [V]	I _{DC} [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
EZ3 * - 0,27	24	10	155	130	172	130	107	8 x 12	4,2
EZ3 * - 0,40	24	15	195	157	185	173	137	8 x 11	6,6
EZ3 * - 0,54	24	20	195	160	190	173	87	8 x 11	8,3
EZ3 * - 0,80	24	30	210	210	208	173	78	8 x 11	10,5
EZ3 * - 1,10	24	40	210	205	208	173	95	8 x 11	15,2
EZ3 * - 1,35	24	50	240	240	270	198	95	8 x 11	15,8
EZ3 * - 1,60	24	60	240	260	270	198	105	8 x 11	18,8
EZ3 * - 2,20	24	80	240	280	280	198	120	8 x 11	24,3
EZ3 * - 2,70	24	100	265	280	295	198	126	8 x 11	31,5
EZ3 * - 3,30	24	120	300	282	335	240	135	11 x 15	35,5
EZ3 * - 4,00	24	150	300	315	365	240	162	11 x 15	49,5

*) - for product design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3) the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared based on the technical specification for power supplies with voltage ratio 400//24V DC operating under normal conditions. For other conditions and data the values may change

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered. If requested in advance, it is possible to manufacture a choke in other version.



Supplier: Transmotor ApS

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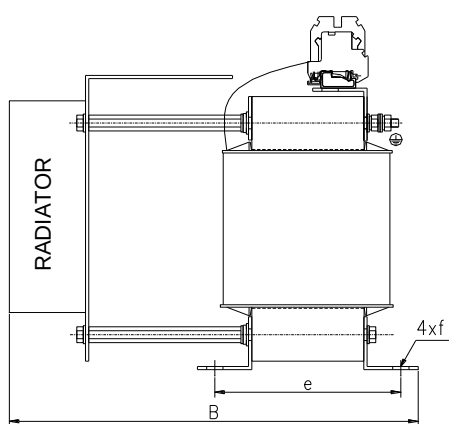
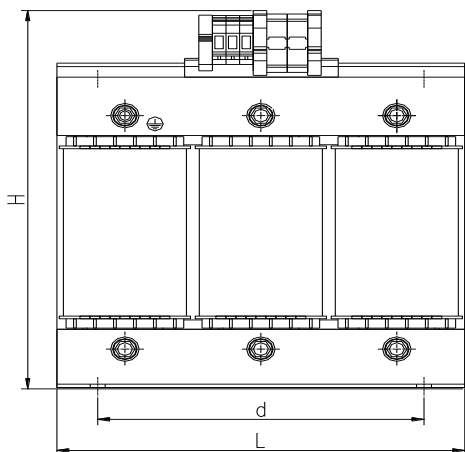
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EZ/2010/V/03



Three-phase power supplies with reduced ripple factor

EZ3W
EZ3P



Technical data:

Design	Power supplies are manufactured according to requirements of EN/IEC 61558
Insulation class	B(130°C) - standard
Ambient temperature	40°C
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Protection degree	IP 00
Protection class	I
Frequency	50/60 Hz
Primary voltage	up to 3 x 500 V
Secondary voltage	24 V DC (standard)
Terminals	screw terminals with the cross section up to 50 mm ²
Fastening	by means of angles

Three-phase DC supplies with Graetz's bridge rectifier with connections B6 or B12 are designed for users who need for their receivers an unstabilized DC voltage.

DC-supplies are equipped with a LED indicating the current state of the operation. Standard designs of power supplies are prepared for mounting on mounting brackets.

On request power supplies can be supplied with two types of protection: against fault and overload protection.

Power supply **EZ3W** - with smoothing capacitor, used for $I_N \leq 30$ A

Power supplies **EZ3P** - with 12 - pulse circuit, used for $I_N > 30$ A

Technical data of three-phase power supplies with reduced ripple factor EZ3W i EZ3P**

Type	U_{DC} [V]	I_{DC} [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
EZ3W_* - 0,32	24	10	155	155	171	130	132	8 x 12	6,1
EZ3W_* - 0,48	24	15	195	167	185	173	147	8 x 11	7,2
EZ3W_* - 0,63	24	20	195	170	190	173	87	8 x 11	9,5
EZ3W_* - 0,95	24	30	210	225	208	173	85	8 x 11	12,5
EZ3P_* - 1,15	24	40	210	215	208	173	95	8 x 11	16,0
EZ3P_* - 1,45	24	50	240	260	270	198	105	8 x 11	19,5
EZ3P_* - 1,70	24	60	240	272	270	198	120	8 x 11	23,2
EZ3P_* - 2,30	24	80	265	265	293	198	114	8 x 11	28,5
EZ3P_* - 2,90	24	100	300	270	333	240	122	11 x 15	32,5
EZ3P_* - 3,40	24	120	300	282	333	240	135	11 x 15	41,5
EZ3P_* - 4,30	24	150	300	315	365	240	162	11 x 15	56,5

*) - for product design with climatic/environmental class C2/E1 (maritime design W/3 or tropical design T/3)

the letter "M" or "G" ought to be added depending on final application

**) - this table was prepared based on the technical specification for power supplies with voltage ratio 400//24V DC operating under normal conditions. For other conditions and data the values may change

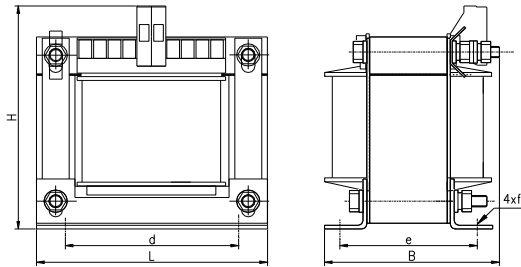
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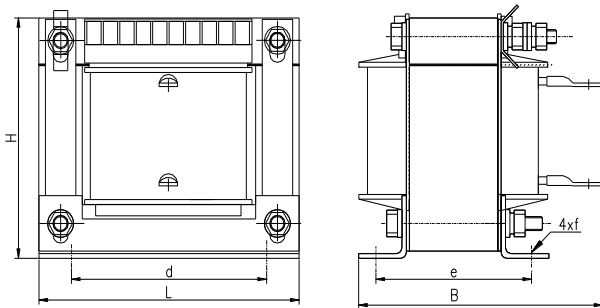
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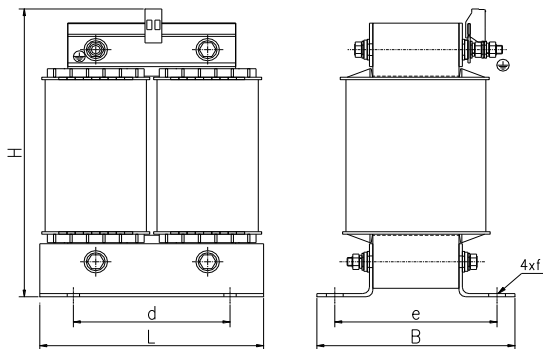
EZ/2010/V/04



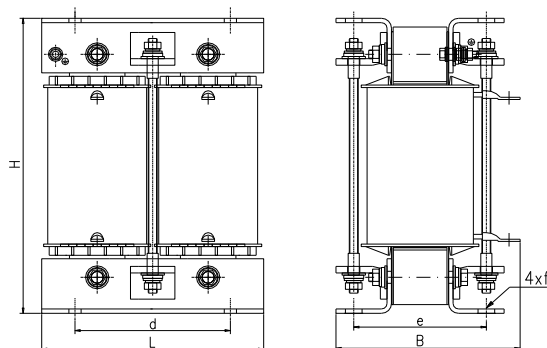
Design A
EI with screw terminals



Design B
EI with cable lugs



Design C



Design D

Technical data:

Design	Chokes are produced according to : EN/IEC 61558-2-20; EN/IEC 60289
Insulation class	F(155°C) - standard
Ambient temperature	40°C
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Protection degree	IP 00
Frequency	50 Hz
Rated voltage	up to 750 V
Terminals	screw terminal blocks or cable lugs
Fastening	by means of angles

The ED1N line chokes are used in single-phase supply systems, usually for protecting power thyristors and transistors against rapid growth of current. Moreover, the line chokes limit commutation over-voltages in the circuit and backward current impulse amplitude when switching off thyristors. The line chokes also function as protectors of the supply network against higher harmonic propagation.

The range of possible versions is limited by the following equation:

$$0,05 < 2\pi f \times L \times I^2 \times 10^{-6} < 100$$

where: f - [Hz], L - [mH], I - [A]

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added



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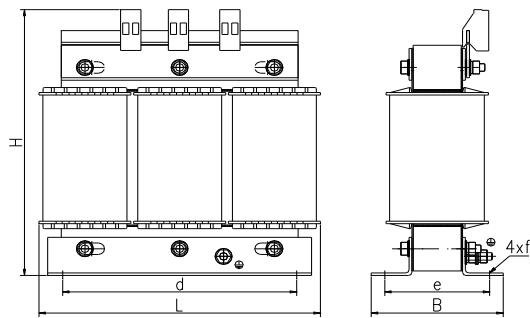
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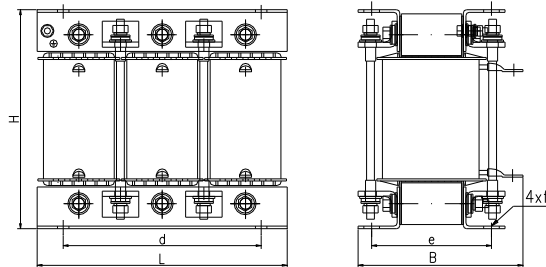


Three-phase line chokes - 2% $\Delta U = 2\% U_n$, $U_n = 3 \times 400V$

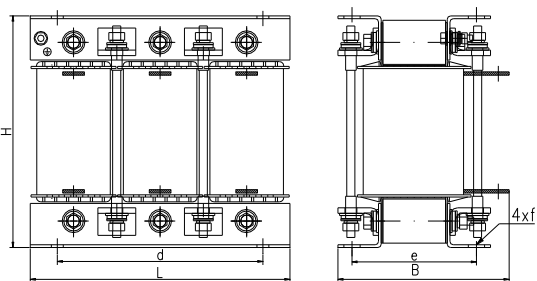
ED3N



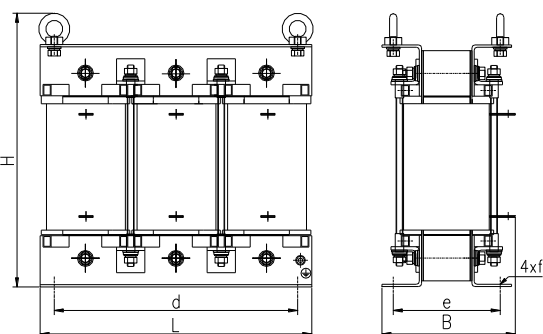
Design A



Design B



Design C



Design D

Technical data:

Design	Chokes are produced according to : EN/IEC 61558-2-20; EN/IEC 60289					
Insulation class	F(155°C) - standard					
Ambient temperature	40°C					
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design					
Harmonic number	1	3	5	7	11	13
Harmonic content (%) - I_{1h}	100	0	20	14	0	0
Phase shift	0	0	0	0	0	0
Frequency of 1-st harmonic	50 Hz					
Rated voltage	$U_n = 400 V$					
Overload capacity	110% I_n					
Voltage drop	2% U_n					
Protection degree	IP 00					
Terminals	screw terminal blocks or cable lugs or copper bus bars					
Fastening	by means of angles					

This design of chokes is mostly applied in three-phase power transmission inverter systems. These reactors limit the inrush current and restrict a mutually interference of inverters, which are supplied from the same transformer. The commutation in systems with motor chokes proceeds softly and overvoltages are suppressed.

Line chokes ED3N are simultaneous protective elements limiting the harmonics propagation.

In the table are given data for rated voltage 400V. The voltage drop during operation is 2%. The value of phase inductance [mH] can be calculated by an equation :

$$\text{where : } L = \frac{\Delta U_L \% \cdot U_n}{2\pi\sqrt{3} \cdot f_n \cdot I_n} \cdot 10^3 \text{ [mH]}$$

$\Delta U\%$ - voltage drop in % resulting from the choke inductance

U_n - rated phase-to-phase voltage [V]

I_n - rated current [A]

f_n - rated frequency [Hz]

It is possible after prior settlement to produce chokes with other technical data and in various designs.

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added

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ED/2010/V/02



Technical data of three-phase line chokes - 2%

Item	Choke type	Inductance [mH]	Current [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
1	ED3N - 4,90/3	4,90	3	100	52	122	80	31	5x8	0,85	A
2	ED3N - 3,60/4	3,60	4	100	52	122	80	31	5x8	0,85	A
3	ED3N - 2,40/6	2,40	6	100	60	122	80	40	5x8	1,2	A
4	ED3N - 1,80/8	1,80	8	100	60	122	80	40	5x8	1,3	A
5	ED3N - 1,20/12	1,20	12	125	61	141	100	45	5x8	1,6	A
6	ED3N - 0,90/16	0,90	16	125	61	141	100	45	5x8	1,8	A
7	ED3N - 0,59/25	0,59	25	125	105	103	100	56	5x8	2,6	B
8	ED3N - 0,49/30	0,49	30	155	77	160	130	56	8x11	3,3	B
9	ED3N - 0,40/36	0,40	36	155	108	128	130	72	8x11	4,8	B
10	ED3N - 0,29/50	0,29	50	155	108	128	130	72	8x11	5,0	B
11	ED3N - 0,24/60	0,24	60	195	110	158	173	72	8x11	5,4	B
12	ED3N - 0,21/70	0,21	70	195	120	158	173	82	8x11	7,4	B
13	ED3N - 0,16/90	0,16	90	195	130	158	173	92	8x11	8,8	B
14	ED3N - 0,13/110	0,13	110	208	110	181	173	78	8x11	8,8	C
15	ED3N - 0,12/120	0,12	120	208	110	181	173	78	8x11	9,2	C
16	ED3N - 0,10/150	0,10	150	208	127	181	173	95	8x11	13,2	C
17	ED3N - 0,08/180	0,08	180	240	142	207	198	105	11x29	16,2	C
18	ED3N - 0,067/220	0,067	220	240	165	207	198	125	11x29	20,8	C
19	ED3N - 0,057/260	0,057	260	300	157	264	240	122	11x15	23,0	C
20	ED3N - 0,046/320	0,046	320	300	170	264	240	135	11x15	29,1	C
21	ED3N - 0,037/400	0,037	400	300	190	264	240	147	11x15	35,7	C
22	ED3N - 0,029/500	0,029	500	358	195	306	300	133	11x21	41,3	C
23	ED3N - 0,023/630	0,023	630	420	202	415	370	131	11x21	44,8	D
24	ED3N - 0,021/700	0,021	700	420	212	415	370	141	11x21	56,0	D
25	ED3N - 0,018/800	0,018	800	420	222	415	370	151	11x21	60,0	D
26	ED3N - 0,016/900	0,016	900	420	230	415	370	151	11x21	63,0	D
27	ED3N - 0,015/1000	0,015	1000	420	260	415	370	166	11x21	78,0	D
28	ED3N - 0,013/1100	0,013	1100	420	280	415	370	166	11x21	83,0	D
29	ED3N - 0,012/1250	0,012	1250	420	300	415	370	181	11x21	98,5	D

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added



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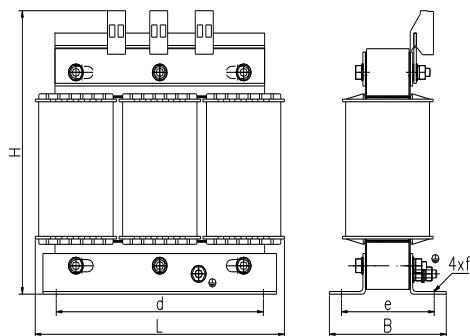
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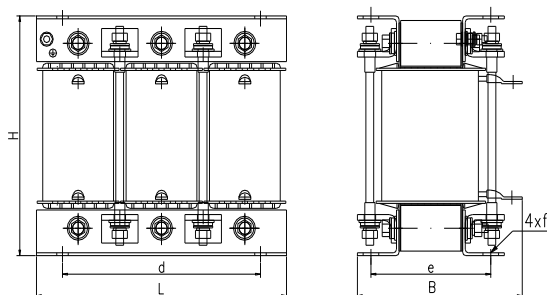


Three-phase line chokes - 4% $\Delta U = 4\% U_n$, $U_n = 3 \times 400V$

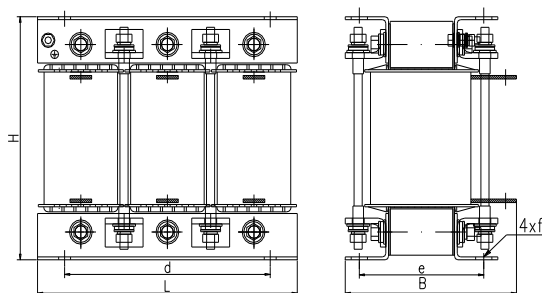
ED3N



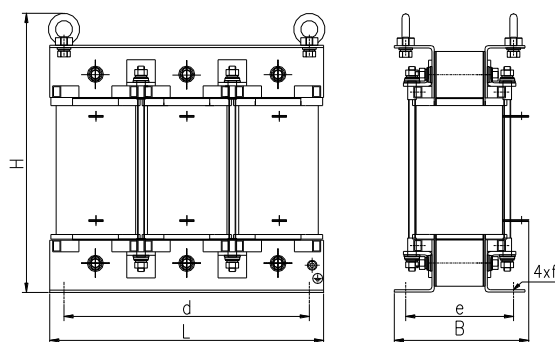
Design A



Design B



Design C



Design D

Technical data:

Design	Chokes are produced according to : EN/IEC 61558-2-20; EN/IEC 60289					
Insulation class	F(155°C) - standard					
Ambient temperature	40°C					
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design					
Harmonic number	1	3	5	7	11	13
Harmonic content (%) - I_{1h}	100	0	20	14	0	0
Phase shift	0	0	0	0	0	0
Frequency of 1-st harmonic	50 Hz					
Rated voltage	$U_n = 400 V$					
Overload capacity	110% I_n					
Voltage drop	4% U_n					
Protection degree	IP 00					
Terminals	screw terminal blocks or cable lugs or copper bus bars					
Fastening	by means of angles					

This design of chokes is mostly applied in three-phase power transmission inverter systems. These reactors limit the inrush current and restrict a mutually interference of inverters, which are supplied from the same transformer. The commutation in systems with motor chokes proceeds softly and overvoltages are suppressed.

Line chokes ED3N are simultaneous protective elements limiting the harmonics propagation.

In the table are given data for rated voltage 400V. During the operation the measured voltage drop is 4%. The value of phase inductance [mH] can be calculated by an equation :

$$\text{gdzie : } L = \frac{\Delta U_L \% \cdot U_n}{2\pi \sqrt{3} \cdot f_n \cdot I_n} \cdot 10^3 \text{ [mH]}$$

$\Delta U\%$ - voltage drop in % resulting from the choke inductance

U_n - rated phase-to-phase voltage [V]

I_n - rated current [A]

f_n - rated frequency [Hz]

It is possible after prior settlement to produce chokes with other technical data and in various designs.

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added

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ED/2010/V/04



Technical data of three-phase line chokes - 4%

Item	Choke type	Inductance [mH]	Current [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
1	ED3N - 9,80/3	9,80	3	100	52	122	80	31	5x8	0,92	A
2	ED3N - 7,30/4	7,30	4	100	60	122	80	40	5x8	1,3	A
3	ED3N - 4,90/6	4,90	6	100	60	122	80	40	5x8	1,4	A
4	ED3N - 3,60/8	3,60	8	125	61	141	100	45	5x8	1,8	A
5	ED3N - 2,40/12	2,40	12	125	71	141	100	55	5x8	2,4	A
6	ED3N - 1,80/16	1,80	16	155	77	160	130	57	8x11	3,4	A
7	ED3N - 1,20/25	1,20	25	155	121	130	130	72	8x11	5,4	B
8	ED3N - 0,98/30	0,98	30	195	110	160	173	72	8x11	5,9	B
9	ED3N - 0,82/36	0,82	36	195	120	160	173	82	8x11	7,5	B
10	ED3N - 0,59/50	0,59	50	195	134	160	173	92	8x11	9,3	B
11	ED3N - 0,49/60	0,49	60	195	134	180	173	78	8x11	10,4	B
12	ED3N - 0,42/70	0,42	70	240	157	210	198	95	11x29	11,8	B
13	ED3N - 0,33/90	0,33	90	240	160	210	198	95	11x29	12,8	B
14	ED3N - 0,27/110	0,27	110	240	146	210	198	105	11x29	16,2	C
15	ED3N - 0,24/120	0,24	120	240	152	210	198	115	11x29	19,5	C
16	ED3N - 0,20/150	0,20	150	300	161	265	240	122	11x15	25	C
17	ED3N - 0,16/180	0,16	180	260	180	225	198	126	11x29	29	C
18	ED3N - 0,13/220	0,13	220	300	196	265	240	147	11x15	36,5	C
19	ED3N - 0,11/260	0,11	260	300	211	265	240	162	11x15	43,5	C
20	ED3N - 0,092/320	0,092	320	357	203	310	300	148	11x21	53	C
21	ED3N - 0,074/400	0,074	400	420	205	415	370	141	11x15	57	D
22	ED3N - 0,059/500	0,059	500	420	215	415	370	151	11x15	66	D
23	ED3N - 0,047/630	0,047	630	420	272	415	370	181	11x15	94	D
24	ED3N - 0,042/700	0,042	700	480	280	475	430	191	13x18	104	D
25	ED3N - 0,037/800	0,037	800	480	263	475	430	208	13x18	122	D
26	ED3N - 0,033/900	0,033	900	480	288	490	430	208	13x18	128	D
27	ED3N - 0,029/1000	0,029	1000	480	318	490	430	238	13x18	155	D
28	ED3N - 0,027/1100	0,027	1100	540	338	535	490	258	13x18	176	D
29	ED3N - 0,024/1250	0,024	1250	540	350	535	490	268	13x18	196	D

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added

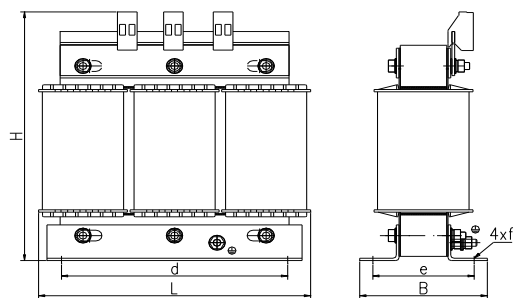


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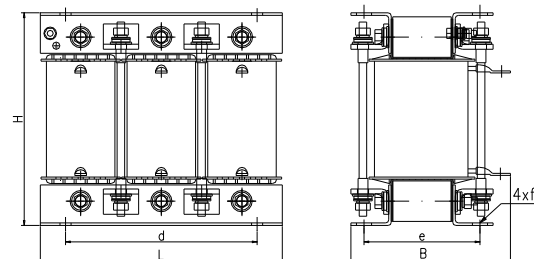
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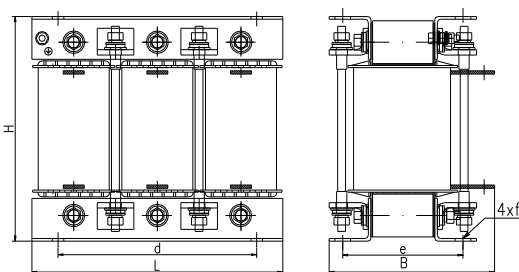
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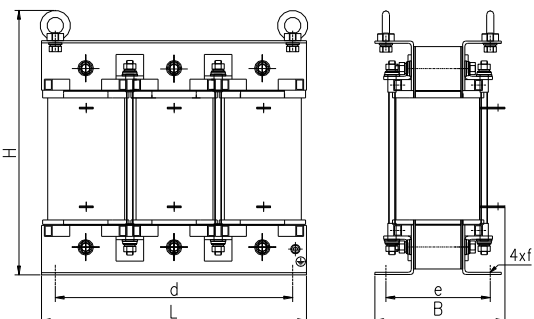
Design A



Design B



Design C



Design D

Technical data:

Design	Chokes are produced according to : EN/IEC 61558-2-20; EN/IEC 60289
Insulation class	F(155°C) - standard
Ambient temperature	40°C
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Frequency of the 1-st harmonic	50 Hz
Keying frequency	4000 Hz
Rated voltage	$U_n = 400$ V
Overload capacity	110% I_n
Protection degree	IP 00
Terminals	screw terminal blocks or cable lugs or copper bus bars
Fastening	by means of angles

The ED3S three-phase motor chokes are used in converting driving systems of alternating current. Depending on the driving system type that they cooperate with, they have many tasks to fulfill: i.e. ensuring the motor current pulsation continuity and smoothing, limiting short-circuit current in the converter load circuit, as well as suppressing the commutation over-voltages and the supply line capacity compensation. It is possible to manufacture the chokes with various coil terminals like screw terminal blocks, cable lugs or copper bus bars, depending on the rated current.

The table presents selected parameters only for some of the chokes manufactured. The inductance values were selected basing on data given by various manufacturers of converters and drive units. If agreed beforehand, it is possible to manufacture chokes with parameters other than those given in the table.

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.
For designs with climatic/environmental class C2/E1 the letter "M" ought to be added

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Technical data of three-phase motor chokes

Item	Choke type	Inductance [mH]	Current [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
1.	ED3S-5,40/3	5,40	3	100	60	122	80	40	5x8	1,2	A
2.	ED3S-4,00/4	4,00	4	100	60	122	80	40	5x8	1,2	A
3.	ED3S-2,70/6	2,70	6	100	60	122	80	40	5x8	1,3	A
4.	ED3S-2,00/8	2,00	8	125	61	140	100	45	5x8	1,6	A
5.	ED3S-1,70/10	1,70	10	125	71	140	100	55	5x8	2,4	A
6.	ED3S-1,10/15	1,10	15	125	71	140	100	55	5x8	2,6	A
7.	ED3S-0,80/20	0,80	20	155	87	165	130	57	8x12	3,3	A
8.	ED3S-0,60/28	0,60	28	155	87	165	130	57	8x12	3,6	A
9.	ED3S-0,48/34	0,48	34	155	105	165	130	72	8x12	5,1	A
10.	ED3S-0,40/40	0,40	40	195	115	160	173	72	8x11	5,8	B
11.	ED3S-0,30/54	0,30	54	195	130	160	173	82	8x11	7,5	B
12.	ED3S-0,25/66	0,25	66	208	105	185	173	78	8x11	9,3	C
13.	ED3S-0,20/80	0,20	80	208	130	185	173	95	8x11	12,5	C
14.	ED3S-0,16/100	0,16	100	240	140	210	198	105	11x29	14,7	C
15.	ED3S-0,14/110	0,14	110	240	150	210	198	115	11x29	17,6	C
16.	ED3S-0,11/140	0,11	140	240	165	210	198	125	11x29	22,5	C
17.	ED3S-0,10/160	0,10	160	240	170	210	198	125	11x29	23	C
18.	ED3S-0,08/200	0,080	200	240	190	210	198	129	11x29	24	C
19.	ED3S-0,067/240	0,067	240	300	180	270	240	133	11x15	30	C
20.	ED3S-0,056/290	0,056	290	300	210	270	240	160	11x15	40	C
21.	ED3S-0,045/360	0,045	360	360	205	315	310	140	11x15	48	C
22.	ED3S-0,036/450	0,036	450	360	220	360	310	155	11x15	60	D
23.	ED3S-0,028/570	0,028	570	420	265	420	370	150	11x15	68	D
24.	ED3S-0,025/650	0,025	650	420	290	420	370	165	11x15	80	D
25.	ED3S-0,022/720	0,022	720	420	290	420	370	187	11x15	95	D
26.	ED3S-0,020/810	0,020	810	540	320	540	490	228	13x18	140	D
27.	ED3S-0,018/900	0,018	900	540	350	540	490	248	13x18	164	D
28.	ED3S-0,016/1000	0,016	1000	540	360	540	490	258	13x18	176	D
29.	ED3S-0,014/1150	0,014	1150	540	360	540	490	268	13x18	206	D

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added



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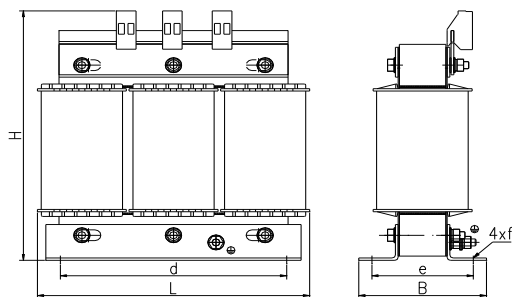
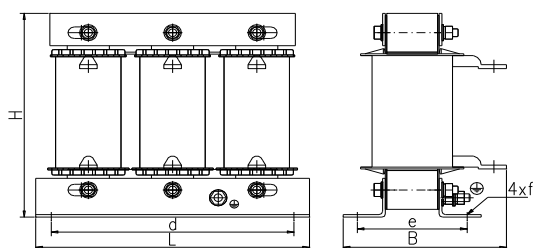
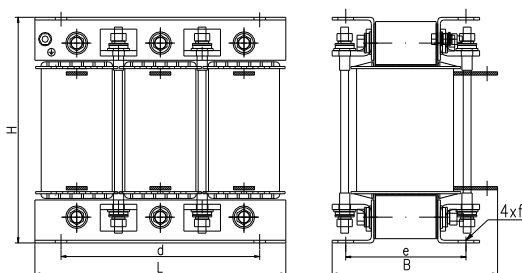
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Three-phase chokes du/dt for various frequency converters

ED3dU**Design A****Design B****Design C****Technical data:**

Design	Chokes are produced according to : EN/IEC 60289; EN/IEC 61558-2-20
Insulation class	F(155°C) - standard
Ambient temperature	40°C
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Frequency of the 1-st harmonic	50/60 Hz
Keying frequency	2-16 kHz
Rated voltage	$U_n=400$ V
Overload capacity	110% I_n
Short circuit voltage	0,7-1,2 %
Protection degree	IP 00
Terminals	screw terminal blocks or cable lugs or copper bus bars
Fastening	by means of angles

Chokes du / dt are applicable in driving systems in the output of frequency converters. The task of chokes du / dt is to limit the steepness of voltage rise. This feature increases the life time of the device by protecting the isolation from damage, reducing operating temperature and reducing motor noise. In addition they allow to increase the motor main cable length from 30 up to 100 meters depending on the keying frequency. These chokes also reduce the propagation of electromagnetic disturbances.

The series of chokes du / dt has been designed on the basis of output currents of the leading manufacturers of frequency converters. Their versatility lies in the possibility of operation at varying load at the inverter (with constant or variable torque).

If agreed beforehand, it is possible to manufacture chokes with parameters other than those given in the table.

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added

Supplier: **Transmotor ApS**

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ED/2010/V/08

Technical data of three-phase chokes du/dt
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Choke type	L _N [mH]	I _N [A]	Power of motor [kW]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
ED3dU-4,91mH/1,8A	4,91	1,8	0,4	100	50	125	81	31	4x (5x8)	0,75	A
ED3dU-3,20mH/2,8A	3,2	2,8	0,75	100	50	125	81	31	4x (5x8)	0,8	A
ED3dU-1,8mH/4,9A	1,8	4,9	1,5	100	50	125	81	31	4x (5x8)	0,85	A
ED3dU-1,27mH/7A	1,27	7	2,2	100	60	125	81	40	4x (5x8)	1,25	A
ED3dU-0,94mH/9A	0,94	9	3	100	60	125	81	40	4x (5x8)	1,35	A
ED3dU-0,70mH/13A	0,7	13	3,7	125	61	140	100	45	4x (5x8)	1,75	A
ED3dU-0,52mH/17A	0,52	17	5,5	125	71	140	100	55	4x (5x8)	2,35	A
ED3dU-0,42mH/21A	0,42	21	7,5	125	100	105	100	55	4x (5x8)	2,55	B
ED3dU-0,24mH/33A	0,24	33	11	155	95	130	130	57	4x (8x12)	3,2	B
ED3dU-0,20mH/40A	0,2	40	15	155	100	130	130	57	4x (8x12)	3,55	B
ED3dU-0,16mH/49A	0,16	49	18,5	155	110	130	130	72	4x (8x12)	5	B
ED3dU-0,14mH/58A	0,14	58	22	195	110	160	173	72	4x (8x11)	5,5	B
ED3dU-0,10mH/79A	0,1	79	30	195	110	160	173	72	4x (8x11)	6,5	C
ED3dU-0,084mH/95A	0,084	95	37	195	120	160	173	82	4x (8x11)	7,6	C
ED3dU-0,071mH/113A	0,071	113	45	195	135	160	173	92	4x (8x11)	9,7	C
ED3dU-0,057mH/139A	0,057	139	55	208	110	185	173	78	4x (8x11)	10,4	C
ED3dU-0,041mH/192A	0,041	192	75	240	145	210	198	95	4x(11x29)	12,8	C
ED3dU-0,037mH/215A	0,037	215	90	240	160	210	198	105	4x(11x29)	16,4	C
ED3dU-0,027mH/258A	0,027	258	110	240	170	210	198	115	4x(11x29)	18,7	C
ED3dU-0,023mH/311A	0,023	311	132	240	170	210	198	115	4x(11x29)	19,7	C
ED3dU-0,019mH/377A	0,019	377	160	300	185	275	240	120	4x(11x15)	24,3	C
ED3dU-0,017mH/408A	0,017	408	185	300	190	275	240	120	4x(11x15)	25,3	C
ED3dU-0,016mH/456A	0,016	456	200	300	200	275	240	133	4x(11x15)	29,5	C
ED3dU-0,014mH/512A	0,014	512	220	300	205	275	240	133	4x(11x15)	31,8	C
ED3dU-0,012mH/577A	0,012	577	250	300	235	275	240	145	4x(11x15)	35,2	C
ED3dU-0,011mH/660A	0,011	660	280	360	235	320	310	125	4x(11x15)	43,8	C
ED3dU-0,010mH/739A	0,01	739	315	360	265	365	310	140	4x(11x15)	51,3	C
ED3dU-0,008mH/768A	0,008	768	350	360	265	365	310	140	4x(11x15)	51,3	C
ED3dU-0,007mH/911A	0,007	911	400	360	270	365	310	140	4x(11x15)	54,5	C
ED3dU-0,005mH/1129A	0,005	1129	500	420	255	420	370	141	4x(11x15)	56,2	C
ED3dU-0,005mH/1140A	0,005	1140	560	420	255	420	370	141	4x(11x15)	56,2	C
ED3dU-0,004mH/1426A	0,004	1426	630	420	255	420	370	141	4x(11x15)	58,1	C

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.



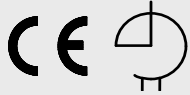
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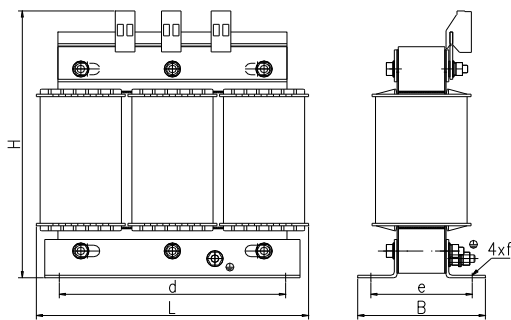
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ED/2010/V/09

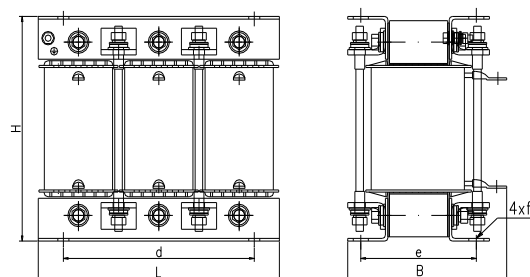


Three-phase protective chokes
for harmonics filtration in compensation systems $p=7\%$
(rated voltage of capacitive battery 440V)

ED3F-
../400/7



Design A



Design B

Technical data:

Design	Chokes are produced according to : EN/IEC 61558-2-20; EN/IEC 60938
Rated voltage of capacitors	440
Rated supply voltage	400 V
Frequency	50 Hz
Attenuation coefficient [p]	7% ($f_r=189\text{Hz}$)
Insulation class	F(155°C) - standard
Ambient temperature	40°C
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Protection degree	IP 00
Magnetic linearity	$I_{LIN}=1,15 \cdot I_N$
Thermal current	$1,06 \times I_N$

Chokes are assigned for operation in reactive power compensation systems to protect capacitive batteries. Together with capacitors, they form resonance systems which limit amplitude of harmonics currents.

It is possible to manufacture the chokes with various coil terminals like screw terminal blocks, cable lugs or copper bus bars, depending on the rated current. There is also a possibility to insert sensors in windings, in order to protect the chokes against overheating.

Q_{LC} - rated reactive power of LC circuit (choke-capacitor)

U_{LC} - rated voltage of the LC circuit

P - attenuation coefficient

Q_C - rated reactive power of the capacitive battery

U_C - rated voltage of the capacitive battery

L_N - rated inductance of the protective choke

I_N - rated current of the LC circuit

Technical data for rated voltage of capacitive battery 440V

Type of the choke [$Q_{LC}/U_{LC}/p$ Q_C/U_C]	Power of battery [kVAr]	L_N [mH]	I_N [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
ED3F-2,2/400/7-2,5/440	2,5	17,25	3,2	125	71	141	100	55	5x8	2,3	A
ED3F-4,4/400/7-5/440	5	8,63	6,4	155	77	160	130	57	8x12	3,2	A
ED3F-8,9/400/7-10/440	10	4,31	12,8	195	92	190	173	72	8x11	5,7	A
ED3F-11,1/400/7-12,5/440	12,5	3,45	16	195	102	190	173	82	8x11	7,3	A
ED3F-13,3/400/7-15/440	15	2,88	19,2	195	112	190	173	92	8x11	8,4	A
ED3F-17,8/400/7-20/440	20	2,16	25,7	208	98	210	173	78	8x11	9	A
ED3F-22,2/400/7-25/440	25	1,73	32,1	208	140	185	173	85	8x11	11,2	B
ED3F-26,6/400/7-30/440	30	1,44	38,5	240	155	210	198	95	11x29	13,2	B
ED3F-35,5/400/7-40/440	40	1,08	51,3	240	160	210	198	115	11x29	19,2	B
ED3F-44,4/400/7-50/440	50	0,86	64,1	240	175	210	198	129	11x29	22,2	B
ED3F-53,3/400/7-60/440	60	0,72	77	261	165	230	198	126	11x29	28	B
ED3F-66,6/400/7-75/440	75	0,58	96,2	300	180	270	240	133	11x15	32	B
ED3F-88,8/400/7-100/440	100	0,43	128,3	300	200	270	240	160	11x15	43	B

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added

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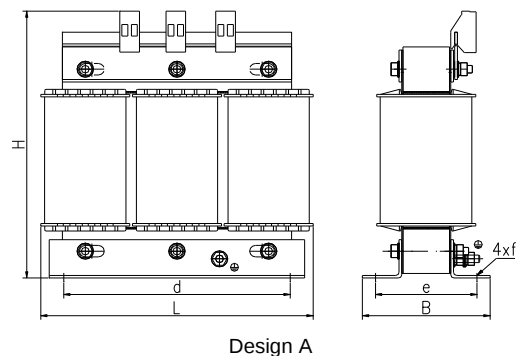
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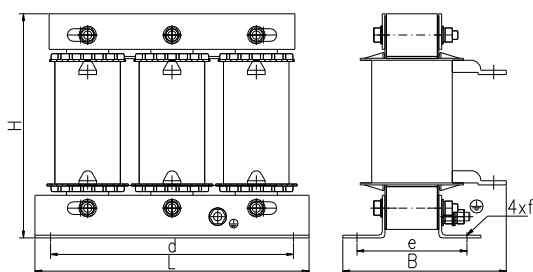
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ED/2010/V/10

**ED3F-
../400/7****Three-phase protective chokes
for harmonics filtration in compensation systems p=7%
(rated voltage of capacitive battery 480V)**

Design A



Design B

Technical data:

Design	Chokes are produced according to : EN/IEC 61558-2-20; EN/IEC 60938
Rated voltage of capacitors	480 V
Rated supply voltage	400 V
Frequency	50 Hz
Attenuation coefficient [p]	7% ($f_r=189\text{Hz}$)
Insulation class	F(155°C) - standard
Ambient temperature	40°C
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Protection degree	IP 00
Magnetic linearity	$I_{LIN}=1,15 \cdot I_N$
Thermal current	$1,06 \times I_N$

Chokes are assigned for operation in reactive power compensation systems to protect capacitive batteries. Together with capacitors, they form resonance systems which limit amplitude of harmonics currents.

It is possible to manufacture the chokes with various coil terminals like screw terminal blocks, cable lugs or copper bus bars, depending on the rated current. There is also a possibility to insert sensors in windings, in order to protect the chokes against overheating.

Q_{LC} - rated reactive power of LC circuit (choke-capacitor)

U_{LC} - rated voltage of the LC circuit

p -attenuation coefficient

Q_C - rated reactive power of the capacitive battery

U_C -rated voltage of the capacitive battery

L_N - rated inductance of the protective choke

I_N - rated current of the LC circuit

Technical data for rated voltage of capacitive battery 480V

Type of the choke [$Q_{LC}/U_{LC}/p \ Q_C/U_C$]	Power of battery [kVAr]	L_N [mH]	I_N [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
ED3F-1,9/400/7-2,5/480	2,5	20,53	2,7	125	61	141	100	45	5x8	1,7	A
ED3F-3,7/400/7-5/480	5	10,27	5,4	125	71	141	100	55	5x8	2,6	A
ED3F-7,5/400/7-10/480	10	5,13	10,8	155	92	160	130	72	8x12	5,2	A
ED3F-9,3/400/7-12,5/480	12,5	4,11	13,5	195	92	190	173	72	8x11	5,8	A
ED3F-11,2/400/7-15/480	15	3,42	16,2	195	92	190	173	72	8x11	6	A
ED3F-14,9/400/7-20/480	20	2,57	21,6	195	112	190	173	92	8x11	9	A
ED3F-18,7/400/7-25/480	25	2,05	26,9	208	130	185	173	78	8x11	9,5	B
ED3F-22,4/400/7-30/480	30	1,71	32,3	208	150	185	173	95	8x11	13	B
ED3F-29,9/400/7-40/480	40	1,28	43,1	240	150	210	198	105	11x29	15,7	B
ED3F-37,3/400/7-50/480	50	1,03	53,9	240	165	210	198	120	11x29	21,1	B
ED3F-44,8/400/7-60/480	60	0,86	64,7	261	165	230	198	126	11x29	24,8	B
ED3F-56/400/7-75/480	75	0,68	80,8	300	180	270	240	133	11x15	29,5	B
ED3F-74,7/400/7-100/480	100	0,51	107,8	300	200	270	240	160	11x15	41,4	B

Note:

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If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added



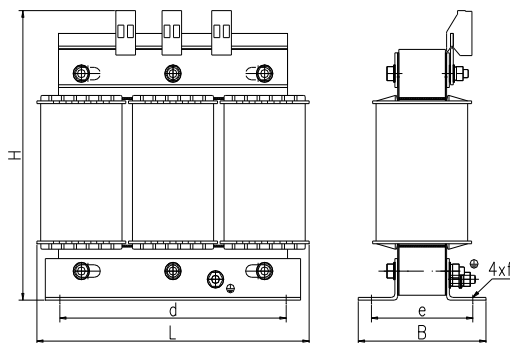
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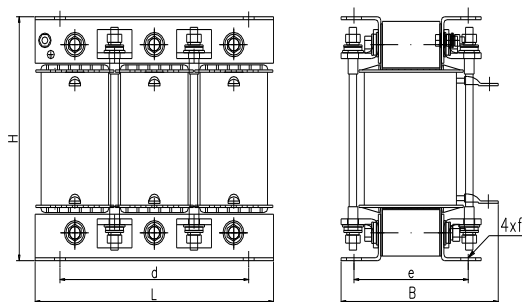
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ED/2010/V/11

**ED3F-
..*/400/14****Three-phase protective chokes
for harmonics filtration in compensation systems p=14%
(rated voltage of capacitive battery 480V)**

Design A



Design B

Technical data:

Design	Chokes are produced according to : EN/IEC 61558-2-20; EN/IEC 60938
Rated voltage of capacitors	480 V
Rated supply voltage	400 V
Frequency	50 Hz
Attenuation coefficient [p]	14% ($f_r=134\text{Hz}$)
Insulation class	F(155°C) - standard
Ambient temperature	40°C
Climatic class	C1/E0 - land design
/environmental class	C2/E1 - maritime design
Protection degree	IP 00
Magnetic linearity	$I_{LIN}=1,15 \cdot I_n$
Thermal current	$1,06 \times I_n$

Chokes are assigned for operation in reactive power compensation systems to protect capacitive batteries. Together with capacitors, they form resonance systems which limit amplitude of harmonics currents. It is possible to manufacture the chokes with various coil terminals like screw terminal blocks, cable lugs or copper bus bars, depending on the rated current. There is also a possibility to insert sensors in windings, in order to protect the chokes against overheating.

 Q_{LC} - rated reactive power of LC circuit (choke-capacitor) U_{LC} - rated voltage of the LC circuit P - attenuation coefficient Q_C - rated reactive power of the capacitive battery U_C - rated voltage of the capacitive battery L_N - rated inductance of the protective choke I_N - rated current of the LC circuit**Technical data for rated voltage of capacitive battery 480 V**

Type of the choke [$Q_{LC}/U_{LC}/p \ Q_C/U_C$]	Power of battery [kVAr]	L_N [mH]	I_N [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
ED3F-2,0/400/14-2,5/480	2,5	41,1	2,9	155	77	160	130	57	8x12	3,2	A
ED3F-4,0/400/14-5/480	5	20,5	5,8	155	92	160	130	72	8x12	5,3	A
ED3F-8,1/400/14-10/480	10	10,3	11,7	208	98	210	173	78	8x11	9,2	A
ED3F-10,1/400/14-12,5/480	12,5	8,21	14,6	208	105	210	173	85	8x11	10,8	A
ED3F-12,1/400/14-15/480	15	6,84	17,5	240	121	230	198	95	11x29	13	A
ED3F-16,1/400/14-20/480	20	5,13	23	240	141	230	198	115	11x29	18,2	A
ED3F-20,2/400/14-25/480	25	4,11	29	240	175	210	198	129	11x29	22,5	B
ED3F-24,2/400/14-30/480	30	3,42	35	300	170	270	240	120	11x15	25,2	B
ED3F-32,3/400/14-40/480	40	2,57	47	300	180	270	240	133	11x15	33,1	B
ED3F-40,4/400/14-50/480	50	2,05	58	300	190	270	240	145	11x15	39,5	B
ED3F-48,4/400/14-60/480	60	1,71	70	340	175	310	300	131	11x21	45,7	B
ED3F-64,6/400/14-80/480	80	1,28	93	340	210	310	300	161	11x21	63,8	B
ED3F-80,7/400/14-100/480	100	1,03	117	420	220	420	370	166	11x15	83,5	B

Note:

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If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added

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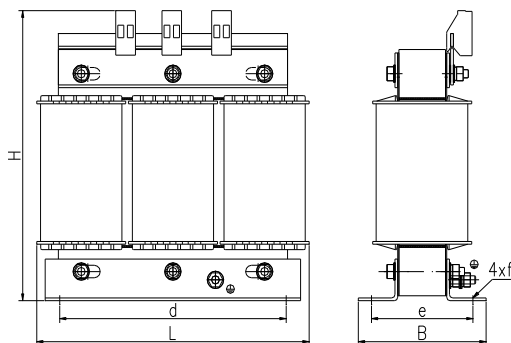
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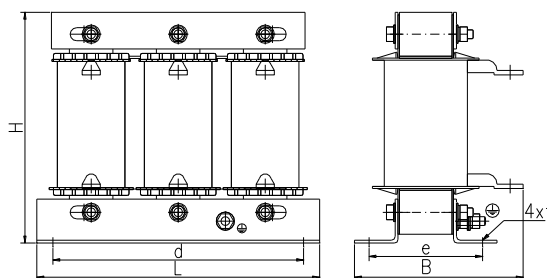
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ED/2010/V/12

**ED3F-
..*/400/14****Three-phase protective chokes
for harmonics filtration in compensation systems p=14%
(rated voltage of capacitive battery 525V)**

Design A



Design B

Technical data:

Design	Chokes are produced according to : EN/IEC 61558-2-20; EN/IEC 60938
Rated voltage of capacitors	525 V
Rated supply voltage	400 V
Frequency	50 Hz
Attenuation coefficient [p]	14% ($f_r=134\text{Hz}$)
Insulation class	F(155°C) - standard
Ambient temperature	40°C
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Protection degree	IP 00
Magnetic linearity	$I_{LIN}=1,15 \cdot I_N$
Thermal current	$1,06 \times I_N$

Chokes are assigned for operation in reactive power compensation systems to protect capacitive batteries. Together with capacitors, they form resonance systems which limit amplitude of harmonics currents.

It is possible to manufacture the chokes with various coil terminals like screw terminal blocks, cable lugs or copper bus bars, depending on the rated current. There is also a possibility to insert sensors in windings, in order to protect the chokes against overheating.

Q_{LC} - rated reactive power of LC circuit (choke-capacitor)

U_{LC} - rated voltage of the LC circuit

P - attenuation coefficient

Q_C - rated reactive power of the capacitive battery

U_C - rated voltage of the capacitive battery

L_N - rated inductance of the protective choke

I_N - rated current of the LC circuit

Technical data for rated voltage of capacitive battery 525V

Type of the choke [$Q_{LC}/U_{LC}/p$ Q_C/U_C]	Power of battery [kVAr]	L_N [mH]	I_N [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
ED3F-1,7/400/14-2,5/525	2,5	49,1	2,4	125	71	141	100	55	5x8	2,6	A
ED3F-3,4/400/14-5/525	5	24,6	4,9	155	92	160	130	72	8x12	5,4	A
ED3F-6,7/400/14-10/525	10	12,3	9,7	195	102	190	173	82	8x11	7,9	A
ED3F-8,4/400/14-12,5/525	12,5	9,83	13,5	208	98	210	173	78	8x11	9,5	A
ED3F-10,1/400/14-15/525	15	8,19	14,6	208	105	210	173	85	8x11	11,3	A
ED3F-13,5/400/14-20/525	20	6,14	20	240	131	230	198	105	11x29	16	A
ED3F-16,9/400/14-25/525	25	4,91	24	240	146	230	198	120	11x29	20	A
ED3F-20,2/400/14-30/525	30	4,09	29	240	175	210	198	129	11x29	23,4	B
ED3F-27/400/14-40/525	40	3,07	39	300	170	270	240	120	11x15	27,5	B
ED3F-33,7/400/14-50/525	50	2,46	49	300	190	270	240	145	11x15	38,2	B
ED3F-40,5/400/14-60/525	60	2,05	59	300	200	270	240	160	11x15	45,4	B
ED3F-50,6/400/14-80/525	80	1,64	73	340	200	310	300	146	11x21	53,8	B
ED3F-67,5/400/14-100/525	100	1,23	97	420	190	420	370	141	11x15	65,8	B

Note:

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If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added



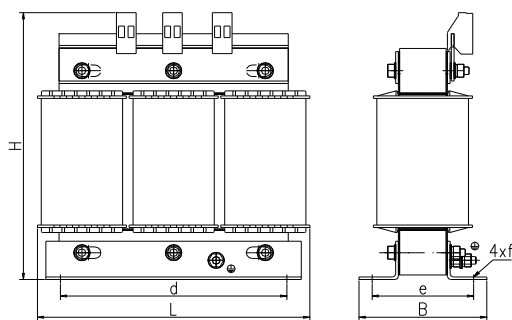
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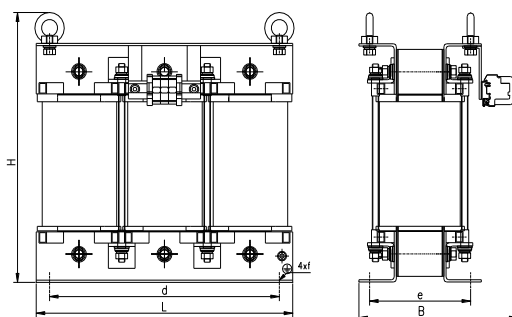
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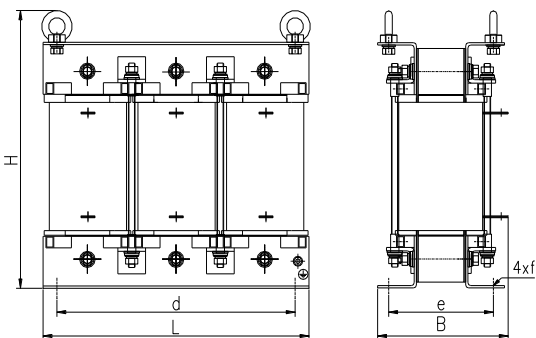
ED/2010/V/13



Design A



Design B



Design C

Technical data:

Design	Chokes are produced according to : EN/IEC 60289
Rated output power	2 - 100 kVAr
Rated voltage	400V
Frequency	50 Hz
Protection degree	IP 00
Insulation class	F(155°C) - standard
Ambient temperature	40°C
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Terminals	screw terminal blocks or cable lugs
Fastening	by means of angles
Overheat protection	thermal switches

Three-phase shunt reactors type ED3K can be applied in compensation systems for capacity reactive power. This reactive power occurs in systems with synchronous machines and in vast, low and medium voltage cable networks.

The choke ratings are selected for typical used compensation systems.

There is a possibility to produce reactors with other technical data after mutually settlement.

The fixing method of these reactors has to ensure an electrical separation from the base plate (for example by means plastic supports).

Note:

Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.

If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added

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ED/2010/V/14



Technical data of three-phase shunt reactors ED3K

Power [kVAr]	Type of the choke	Inductance [mH]	Current [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight	Design
2	ED3K – 2/400	255	2,9	240	121	230	198	95	11 x 29	12	A
2,5	ED3K – 2,5/400	204	3,6	240	121	230	198	95	11 x 29	14	A
3,75	ED3K –	136	5,4	240	141	230	198	115	11 x 29	21	A
5	ED3K – 5/400	102	7,2	262	120	250	198	114	11 x 29	27	A
10	ED3K – 10/400	50,9	14,4	300	192	280	240	160	11 x 15	47	A
15	ED3K – 15/400	34,0	21,7	360	245	370	310	140	11 x 15	61	B
20	ED3K – 20/400	25,5	28,9	420	285	420	370	166	11 x 15	88	B
25	ED3K – 25/400	20,4	36,1	480	295	490	430	188	13 x 18	108	B
30	ED3K – 30/400	17,0	43,3	480	325	490	430	208	13 x 18	128	B
40	ED3K – 40/400	12,7	57,7	480	355	490	430	238	13 x 18	153	B
50	ED3K – 50/400	10,2	72,2	540	370	550	490	248	13 x 18	165	B
60	ED3K – 60/400	8,49	86,6	540	390	550	490	268	13 x 18	185	B
80	ED3K – 80/400	6,37	116	540	390	550	490	288	13 x 18	276	B
100	ED3K – 100/400	5,09	144	690	390	630	590	238	13 x 18	327	C

Note:

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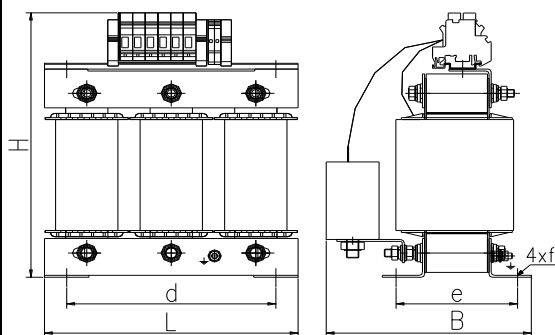
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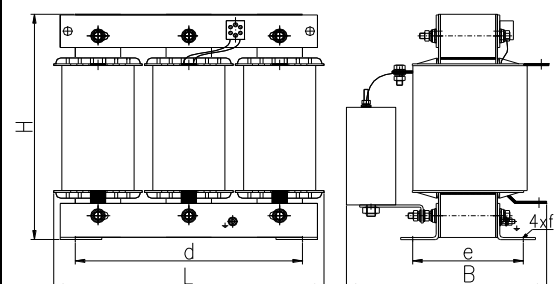
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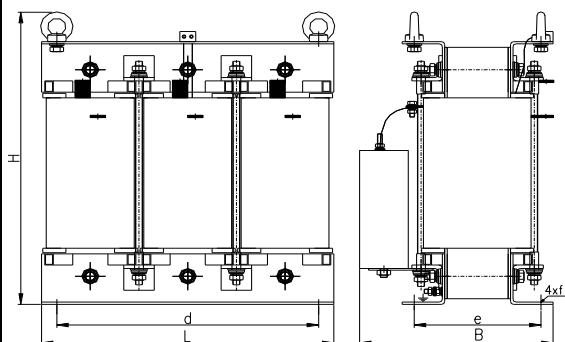
Three-phase LC filters for various frequency converters

EF3LC

Design A



Design B



Design C

Technical data:

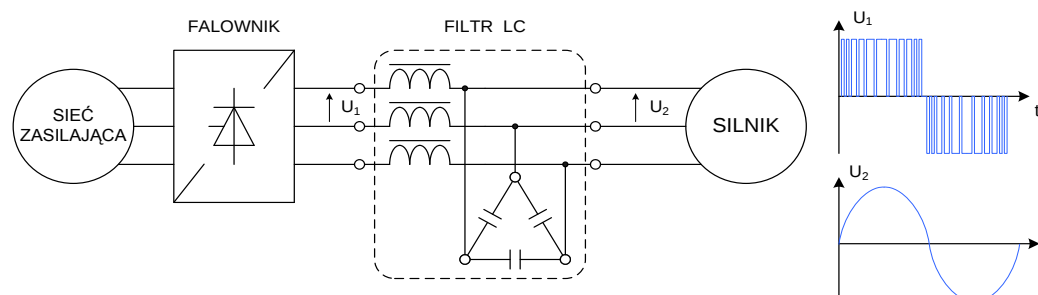
Design	LC filters are produced according to : EN/IEC 61558-2-20; EN/IEC 60289
Insulation class	F(155°C) - standard
Ambient temperature	40°C
Climatic class /environmental class	C1/E0 - land design C2/E1 - maritime design
Rated frequency	50 Hz
Keying frequency	≥ 4 kHz
Rated voltage	$U_n=400$ V
Harmonics content THDu in output voltage	$\leq 5\%$
Continuous overload capacity	110% I_n
Instantaneous overload capacity	150% I_n 1 min/h 200% I_n 0,5 min/h
Short circuit voltage	8 %
Protection degree	IP 00
Terminals	screw terminal blocks or cable lugs or copper bus bars
Fastening	by means of angles

EF3LC filters are used to protect the insulation of the motor and to increase its reliability. They also reduce noise level. These filters convert the output voltage signal of PWM inverter for sine wave at the same time eliminating the higher harmonics, which cause additional losses in both the mains cables of the motor and in the same motor. Sinusoidal output current and voltage of the filter allows for using of considerable lengths of cable without the need for shielding and full use of the active power of the drive system.

There is a possibility to produce the filter with various coil terminals like screw terminal blocks, cable lugs or copper bus bars depending on the rated current.

It is important to connect the filter properly, since the direct connection of capacitors to the inverter output may damage the system.

If agreed beforehand, it is possible to manufacture filters with parameters other than those given in the table.



Drive system with the output sinusfilter type EF3LC

Note:

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If requested in advance, it is possible to manufacture a choke in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added

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EF/2010/V/01

Technical data of three-phase LC filters EF3LC

Item	Filter type	Inductance [mH]	Current [A]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]	Design
1.	EF3LC-17/3	17	3	155	135	160	100	55	5x8	2,5	A
2.	EF3LC-12,5/4	12,5	4	155	135	185	130	57	8x11	3	A
3.	EF3LC-8,5/6	8,5	6	155	125	185	130	57	8x11	3,5	A
4.	EF3LC-6,5/8	6,5	8	155	140	185	130	72	8x11	5	A
5.	EF3LC-5,5/10	5,5	10	195	125	220	173	72	8x11	6	A
6.	EF3LC-4,0/15	4,0	15	195	160	220	173	92	8x11	10	A
7.	EF3LC-3,0/20	3,0	20	208	160	240	173	85	8x11	13	A
8.	EF3LC-2,1/28	2,1	28	240	180	275	198	95	11x29	15	A
9.	EF3LC-1,75/34	1,75	34	240	200	275	198	115	11x29	22	A
10.	EF3LC-1,5/40	1,5	40	240	210	275	198	120	11x29	25	A
11.	EF3LC-1,1/54	1,1	54	240	220	275	198	129	11x29	27	A
12.	EF3LC-0,9/66	0,9	66	261	240	300	198	126	11x29	32	A
13.	EF3LC-0,75/80	0,75	80	300	240	340	240	133	11x15	38	A
14.	EF3LC-0,6/100	0,6	100	300	270	255	240	160	11x15	54	A
15.	EF3LC-0,55/110	0,55	110	300	280	355	240	171	11x15	59	A
16.	EF3LC-0,45/140	0,45	140	340	270	315	300	146	11x21	64	B
17.	EF3LC-0,4/160	0,40	160	340	300	315	300	161	11x21	73	B
18.	EF3LC-0,32/200	0,32	200	420	315	420	370	186	11x15	110	C
19.	EF3LC-0,27/240	0,27	240	480	310	495	430	198	13x18	122	C
20.	EF3LC-0,22/290	0,22	290	480	320	520	430	208	13x18	146	C
21.	EF3LC-0,18/360	0,18	360	480	345	520	430	218	13x18	162	C
22.	EF3LC-0,14/450	0,14	450	540	400	545	490	248	13x18	210	C
23.	EF3LC-0,12/570	0,12	570	540	410	605	490	248	13x18	235	C

Note:

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If requested in advance, it is possible to manufacture a filter in other version.

For designs with climatic/environmental class C2/E1 the letter "M" ought to be added



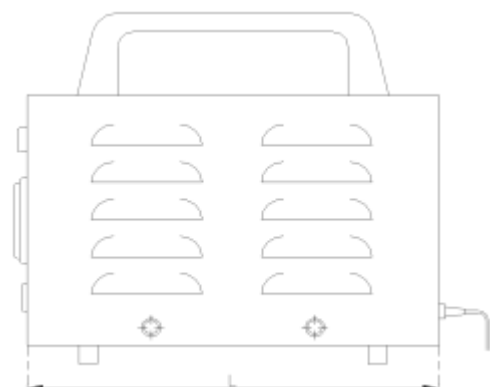
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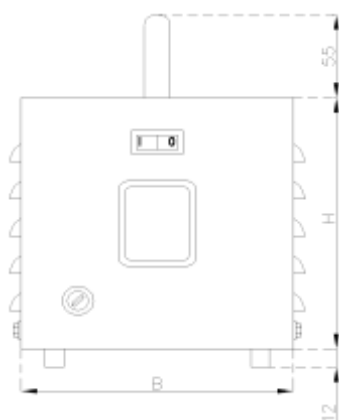
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EF/2010/V/02



Technical data:

Protection degree	IP 23
Colour	Standard - RAL 7032. Other colours on request



Enclosures EO 23 are designed for mounting of single phase transformers with rated power up to 1 KVA.

They are made of steel sheet and have powder coating in RAL 7032 colour.

In standard design in the front wall of the enclosure is installed following equipment: socket, lighted switch breaker, fuse. In the opposite wall is installed cord with UNI-SCHUKO plug 250V/16A. This type of enclosure is designed for assembling of safety isolating transformers.

Technical data of enclosure EO 23

Type	Power range min-max kVA	L [mm]	B [mm]	H [mm]	Weight [kg]
EO23 - 105	0,05 - 0,25	180	140	150	1,6
EO23 - 120	0,32 - 0,50	190	160	150	2,2
EO23 - 150	0,63 - 1,00	220	180	190	2,9

Note:

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If requested in advance, it is possible to manufacture a choke in other version.

Supplier: **Transmotor ApS**

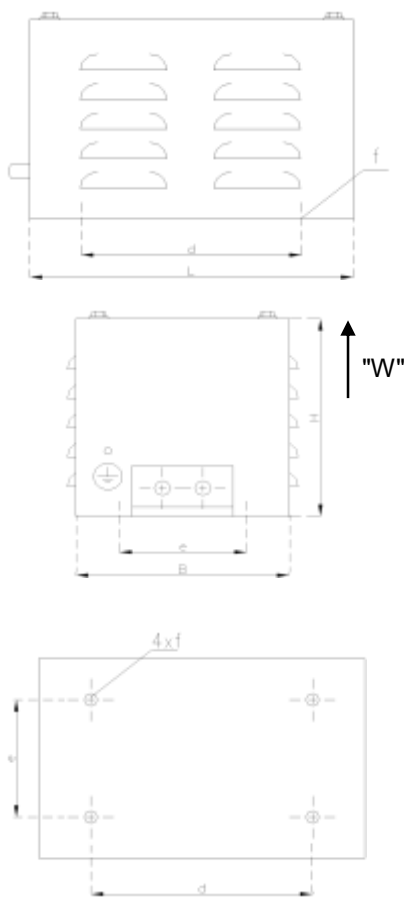
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EO/2010/V/01



View "W" Arrangement of fixing holes

Technical data:

Protection degree	IP 23
Colour	Standard - RAL 7032. Other colours on request
Cable outlets	In standard design cables are taken out via gland seals placed in front wall of the casing.

Enclosures LG1-23 are designed for mounting of single-phase transformers with rated power up to 12,0 KVA.

They are prepared for mounting on horizontal surfaces. They are made of steel sheet and have powder coating.

These enclosures can be equipped with indicators of duty cycle, sockets, breakers, fuses and overload protecting switches.

Enclosures for single-phase transformers ET1S and ET1o - design EI

Type	Power range min-max [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
LG1-23 - 105	0,05 - 0,25	160	140	140	135	115	7	1,2
LG1-23 - 120	0,32 - 0,50	190	160	160	165	135	7	1,8
LG1-23 - 150	0,63 - 1,00	220	180	200	195	155	7	2,7
LG1-23 - 174	1,00 - 1,60	250	220	210	225	195	7	3,5
LG1-23 - 192	2,00 - 3,00	300	260	250	275	235	9	4,5

Enclosures for single-phase transformers ET1S and ET1o - design UI

Type	Power range min-max [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
LG1-23 - 200S *	1,50 - 2,50	250	220	300	210	180	9	5,9
LG1-23 - 200L *	1,50 - 2,50	350	220	230	310	180	9	6,9
LG1-23 - 250S *	2,00 - 4,00	320	260	340	280	210	9	7,9
LG1-23 - 250L *	2,00 - 4,00	390	260	250	350	220	9	9
LG1-23 - 300S *	4,00 - 6,30	320	300	390	250	260	9	10
LG1-23 - 300L *	4,00 - 6,30	450	290	250	380	250	9	11
LG1-23 - 350S *	6,30 - 12,0	400	350	440	330	310	9	14
LG1-23 - 350L *	6,30 - 12,0	500	340	310	430	300	9	14,3

*) S - for standing (vertical) design of transformers
 L - for lying (horizontal) design of transformers

Note:

Power ranges assigned to the types of enclosures overlap each other due to the large diversity of the transformer dimensions transformers depending on the specific technical data (voltage, current rating, the type of receiver)
 Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
 If requested in advance, it is possible to manufacture a choke in other version.



Supplier:

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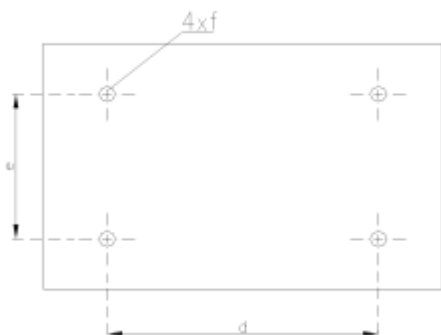
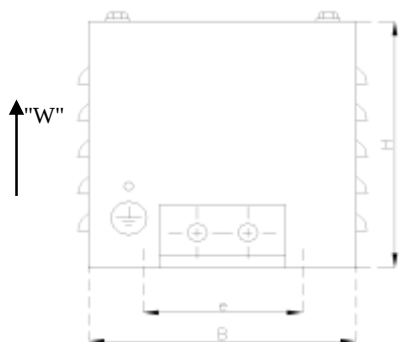
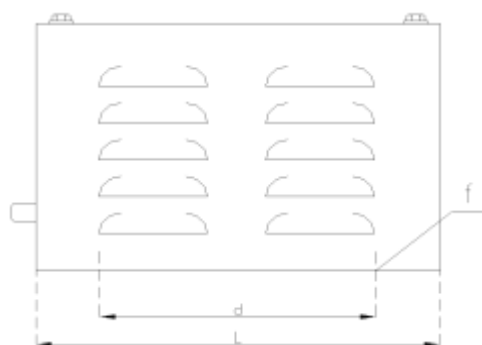
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EO/2010/V/02

Enclosures for three-phase transformers, horizontal mounted design

LG3-23



View "W"
Arrangement of fixing holes

Technical data:

Protection degree	IP 23
Colour	Standard - RAL 7032. Other colours on request
Cable outlets	In standard design cables are taken out via gland seals placed in front wall of the enclosure.

Enclosures LG3-23 are designed for mounting of three-phase transformers with rated power up to 16,0 KVA.

They are prepared for mounting on horizontal surfaces. They are made of steel sheet and have powder coating.

These casings can be equipped with indicators of duty cycle, sockets, breakers, fuses and overload protecting switches.

Enclosures for three-phase transformers ET3S i ET3o

Type	Power range min-max [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
LG3-23 - 150S *	up to 0,9	200	220	220	160	180	9	4,3
LG3-23 - 150L	up to 0,9	240	220	160	200	180	9	4,1
LG3-23 - 200S *	1,00 - 2,50	250	320	300	210	280	9	7,2
LG3-23 - 200L	1,00 - 2,50	350	340	230	310	300	9	9,2
LG3-23 - 250S *	2,00 - 5,00	320	350	340	250	310	9	10,3
LG3-23 - 250L	2,00 - 5,00	390	380	250	320	340	9	10,7
LG3-23 - 300S *	4,00 - 10,0	320	420	390	250	380	9	13,1
LG3-23 - 300L	4,00 - 10,0	450	460	250	380	420	9	13,4
LG3-23 - 350S *	7,50 - 16,0	400	480	440	330	440	9	17,9
LG3-23 - 350L	7,50 - 16,0	500	520	310	430	480	9	17,8

*) S - for standing (vertical) design of transformers
L - for lying (horizontal) design of transformers

Note:

Power ranges assigned to the types of enclosures overlap each other due to the large diversity of the transformer dimensions depending on the specific technical data (voltage, current rating, the type of receiver)

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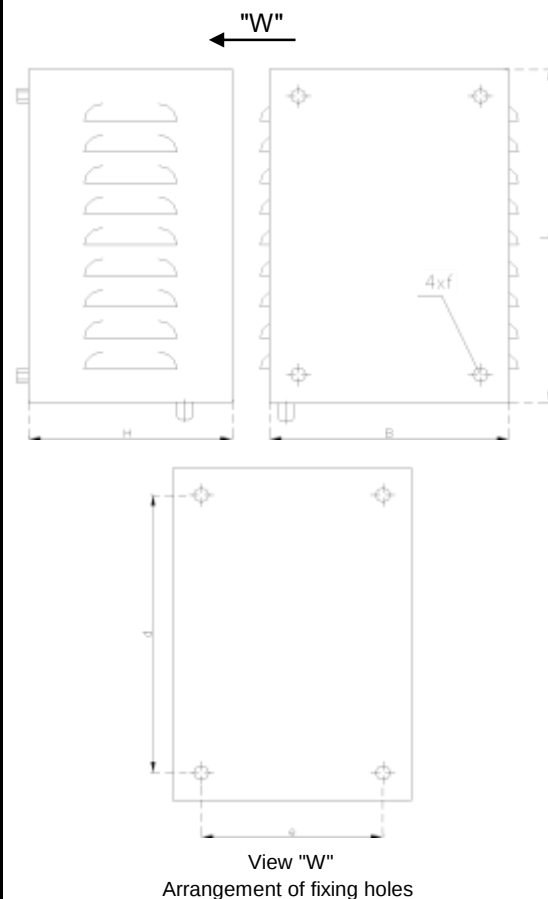
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EO/2010/V/03

WG1-23 WG3-23

Enclosures for single and three-phase transformers, vertical mounted design



Technical data:

Protection degree	IP 23
Colour	Standard - RAL 7032. Other colours on request
Cable outlets	In standard design cables are taken out via gland seals placed in bottom wall of the enclosure.

Enclosures WG1-23 and WG3-23 are designed for mounting of single phase and three phase transformers with rated power up to 8,0 KVA.

They are prepared for mounting on vertical surfaces. They are made of steel sheet and have powder coating.

These casings can be equipped with indicators of duty cycle, sockets, breakers, fuses.

Enclosures for single-phase transformers ET1S and ET1o - design EI

Type	Power range min-max [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
WG1-23 - 105	0,05 - 0,25	160	140	140	135	115	7	1,2
WG1-23 - 120	0,32 - 0,50	190	160	160	165	135	7	1,8
WG1-23 - 150	0,63 - 1,00	220	180	200	195	155	7	2,7
WG1-23 - 174	1,00 - 1,60	250	220	210	225	195	7	3,5
WG1-23 - 192	2,00 - 3,00	300	260	250	275	235	9	4,5

Enclosures for single-phase transformers ET1S and ET1o - design UI

Type	Power range min-max [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
WG1-23 - 200	1,50 - 2,50	350	220	230	310	180	9	6,9
WG1-23 - 250	2,00 - 4,00	390	260	250	350	220	9	9,1
WG1-23 - 300	4,00 - 6,30	450	290	250	380	250	9	11

Enclosures for three-phase transformers ET3S and ET3o - design UI

Type	Power range min-max [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	f [mm]	Weight [kg]
WG3-23 - 150	up to 0,8	240	220	160	200	180	9	4,1
WG3-23 - 200	1,00 - 2,50	350	340	230	310	300	9	9,2
WG3-23 - 250	2,00 - 5,00	390	380	250	320	340	9	10,7
WG3-23 - 300	4,00 - 8,00	450	460	250	380	420	9	13,4

Note:

Power ranges assigned to the types of enclosures overlap each other due to the large diversity of the transformer dimensions transformers depending on the specific technical data (voltage, current rating, the type of receiver)
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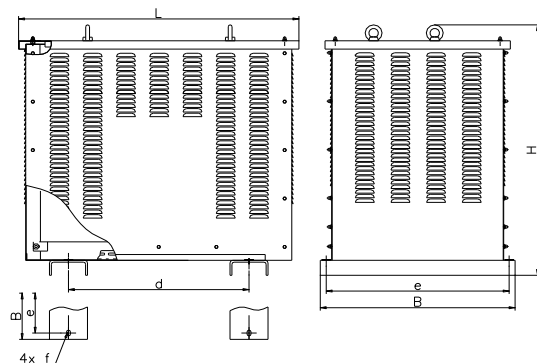
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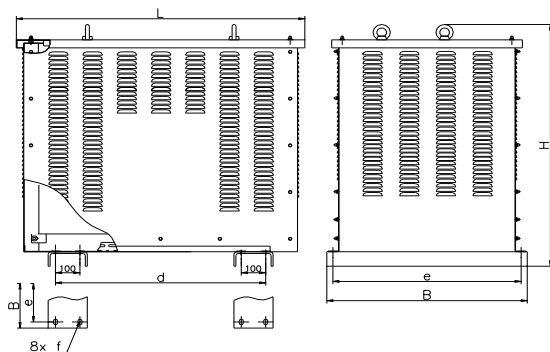
EO/2010/V/04

Enclosures BG 23 for single-phase and three-phase power transformers IP23

BG 23



Design 1



Design 2

Technical data:

Protection degree	IP 23
Colour	Standard - RAL 7032. Other colours on request
Cable outlets	In standard design cables are taken out via hole in the bottom of the enclosure or cable glands placed in front wall of the enclosure.

Enclosures BG23 are designed for mounting of single-phase and three-phase transformers with a rated power up to 1600 KVA.

Their structure enables an easy and totaly dismounting. Casings are fixed to the base by means of channel irons. They are made of steel sheet, which is protected against corrosion; steel sheet is degreased and phosphatized and has double epoxy -polyester powder coating. Fasteners have a protective coating. The bottom is made of perforated sheet.

Enclosures for single-phase transformers ET1S i ET1o

Type	Power range min-max [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	s [mm]	w [mm]	Design	f [mm]	Weight [kg]
BG23 - U 210	8 - 12	440	520	620	240	470	50	30	1	(11x15)	20
BG23 - U 240	10 - 16	480	570	710	270	520	50	30	1	(13x18)	27
BG23 - U 260	16 - 40	540	630	785	310	580	50	30	1	(13x18)	33
BG23 - U 320	40 - 63	640	705	845	360	655	70	50	1	(13x18)	45
BG23 - U 340	60 - 100	680	780	970	380	730	70	50	1	(17x25)	66
BG23 - U 410	100 - 250	820	820	1100	430	770	70	50	1	(17x25)	82
BG23 - U 460	200 - 315	950	1000	1310	450	950	70	50	1	(17x25)	116
BG23 - U 490	300 - 450	1000	1080	1430	500	1030	70	50	1	(17x25)	129

Enclosures for three-phase transformers ET3S i ET3o

Type	Power range min-max [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	s [mm]	w [mm]	Design	f [mm]	Weight [kg]
BG23 - E250	do 5,0	480	480	500	240	430	50	30	1	(11x15)	17
BG23 - E300	6,3 - 10,0	540	510	540	310	460	50	30	1	(11x15)	20
BG23 - E350	7,5 - 15,0	620	520	620	370	470	50	30	1	(11x15)	25
BG23 - E400	14 - 30	660	570	710	430	525	50	30	1	(13x18)	33
BG23 - E440	30 - 63	720	630	785	490	585	70	50	1	(13x18)	42
BG23 - E550	60 - 125	870	705	845	590	660	70	50	1	(13x18)	54
BG23 - E580	100 - 160	980	780	970	620	730	70	50	1	(17x25)	82
BG23 - E700	160 - 200	1180	820	1100	600/800	770	160	65	2	(17x25)	113
BG23 - E785	200 - 250	1280	1000	1310	660/860	950	180	70	2	Ø22	155
BG23 - E840	250 - 315	1360	1080	1430	660/860	1030	180	70	2	Ø22	174
BG23 - E1080	315 - 630	1560	1150	1490	660/860	1100	180	70	2	Ø22	190
BG23 - E1170	630 - 800	1790	1150	1870	660/860	1100	180	70	2	Ø22	242
BG23 - E1350	800 - 1250	1960	1300	2210	660/860	1250	180	70	2	Ø22	322
BG23 - E1450	up to 1600	2050	1300	2210	660/860	1250	180	70	2	Ø22	345

Note:

Power ranges assigned to the types of enclosures overlap each other due to the large diversity of the transformer dimensions transformers depending on the specific technical data (voltage, current rating, the type of receiver)

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Supplier: **Transmotor ApS**

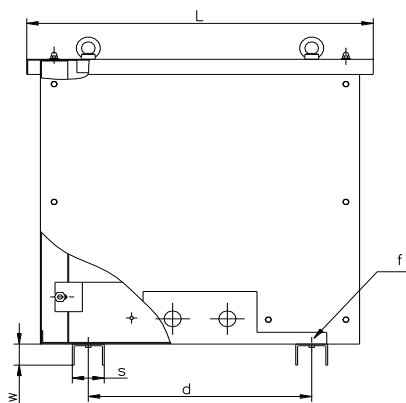
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EO/2010/V/05

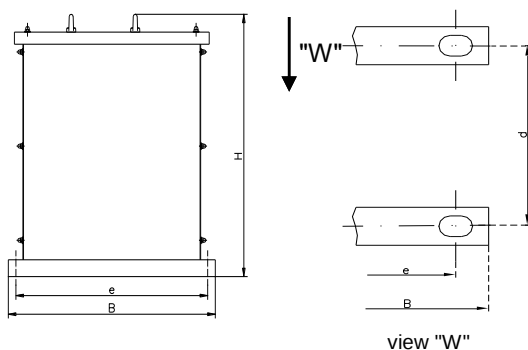


Technical data:

Protection degree	IP 44
Colour	Standard - RAL 7032. Other colours on request
Cable outlets	In standard design cables are taken out via cable glands placed in front wall of the enclosure.

Enclosures BG44 are designed for mounting of single-phase transformers with the rated power 450 kVA and three-phase transformers with a rated power up to 630 KVA.

Their construction enables an easy and totally dismantling. Casings are fixed to the base by means of channel irons. They are made of steel sheet, which is protected against corrosion: steel sheet is degreased and phosphatized and has double epoxy -polyester powder coating. Fasteners have a protective coating. The bottom is made of steel sheet.



Enclosures for single-phase transformers ET1S i ET1o

Type	Power range min-max [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	s [mm]	w [mm]	f [mm]	Weight [kg]
BG44 - U 210	8,0 - 12,0	500	600	670	240	550	50	30	11x15	29
BG44 - U 240	10,0 - 16,0	540	550	740	270	500	50	30	13x18	40
BG44 - U 260	16,0 - 40,0	580	650	800	310	600	50	30	13x18	44
BG44 - U 320	40,0 - 63,0	DIMENSIONS ARE THE SUBJECT OF MUTUAL AGREEMENT								
BG44 - U 340	60,0 - 100,0									
BG44 - U 410	100,0 - 250,0									
BG44 - U 460	200,0 - 315,0									
BG44 - U 490	300,0 - 450,0									

Enclosures for three-phase transformers ET3S i ET3o

Type	Power range min-max [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	s [mm]	w [mm]	f [mm]	Weight [kg]
BG44 - E250	up to 5,0	540	480	550	240	430	50	30	11x15	24
BG44 - E300	6,3 - 10,0	580	520	580	310	470	50	30	11x15	27
BG44 - E350	7,5 - 16,0	640	600	690	370	550	50	30	11x15	35
BG44 - E400	14 - 30	700	680	740	430	630	50	30	13x18	47
BG44 - E440	30 - 63	760	680	810	490	630	70	50	13x18	53
BG44 - E550	60 - 125	930	760	850	590	710	70	50	13x18	66
BG44 - E580	100 - 160	DIMENSIONS ARE THE SUBJECT OF MUTUAL AGREEMENT								
BG44 - E700	160 - 250									
BG44 - E785	200 - 400									
BG44 - E840	320 - 630									

Note:

Power ranges assigned to the types of enclosures overlap each other due to the large diversity of the transformer dimensions transformers depending on the specific technical data (voltage, current rating, the type of receiver)
Transmotor ApS reserves the right to make changes resulting from the continuous development of products offered.
If requested in advance, it is possible to manufacture a choke in other version.

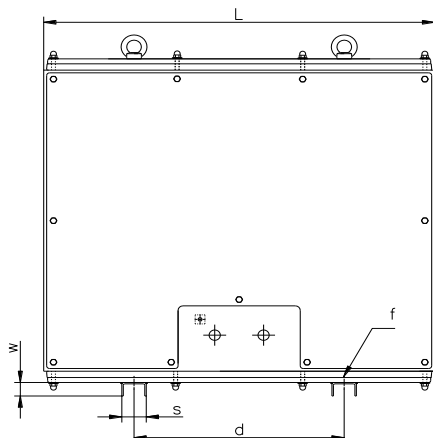


Supplier: **Transmotor ApS**

Lemtorpvej 13 - 17 7620 Lemvig Denmark

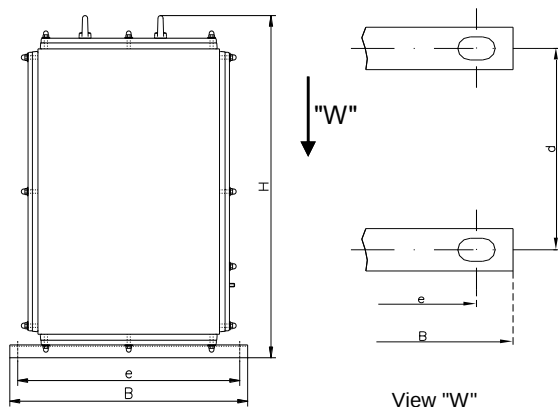
tel.: +45 9664 0977 fax: +45 9664 0982

<http://www.transmotor.com> e-mail: info@transmotor.com



Technical data:

Protection degree	IP 54
Colour	Standard - RAL 7032. Other colours on request
Cable outlets	In standard design cables are taken out via cable glands placed in front wall of the enclosure.



Enclosures BG54 are designed for mounting of single-phase and three-phase transformers with a rated power up to 160 KVA. Casings are fixed to the base by means of channel irons. They are made of steel sheet, which is protected against corrosion: steel sheet is degreased and phosphatized and has double epoxy - polyester powder coating. Fasteners have a protective coating.

Enclosures for single-phase transformers ET1S i ET1o

Type	Power range min-max [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	s [mm]	w [mm]	f [mm]	Weight [kg]
BG54 - U 210	8,0 - 12,0	DIMENSIONS ARE THE SUBJECT OF MUTUAL AGREEMENT								
BG54 - U 240	10,0 - 16,0									
BG54 - U 260	16,0 - 40,0									
BG54 - U 320	40,0 - 63,0									

Enclosures for three-phase transformers ET3S i ET3o

Type	Power range min-max [kVA]	L [mm]	B [mm]	H [mm]	d [mm]	e [mm]	s [mm]	w [mm]	f [mm]	Weight [kg]
BG54 - E100		DIMENSIONS ARE THE SUBJECT OF MUTUAL AGREEMENT								
BG54 - E150										
BG54 - E175										
BG54 - E250	up to 5,0									
BG54 - E300	6,3 - 10,0									
BG54 - E350	7,5 - 15,0									
BG54 - E400	14,0 - 30,0									
BG54 - E440	30,0 - 63,0									
BG54 - E440/550	60,0 - 125,0									
BG54 - E550	60,0 - 125,0									
BG54 - E550/580	100,0 - 160,0									
BG54 - E580	100,0 - 160,0									

Notes



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<http://www.transmotor.com> e-mail: info@transmotor.com

Customer:	Phone:
Address:	Fax:
Zipcode:	E-mail:
City:	Date:

Order form for transformers



Primary voltage V	Frequency 50 Hz ☐ 60 Hz ☐	Connection D ☐ Y ☐
Phases 1 ☐ <u>or</u> 3 ☐	Autotrans. ☐	

Secondary voltage V	Connection d ☐ y ☐ z ☐
Power KVA	
Phases 1 ☐ <u>or</u> 3 ☐	

Temp. Class B ☐ F ☐ H ☐	Ambient. Temp 40 ☐ 45 ☐	Protection IP00 ☐ IP20 ☐ IP23 ☐ IP44 ☐ IP54 ☐ IP
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Made according to:

ABS ☐	BV ☐	DNV ☐	GL ☐	LR ☐
PRS ☐	RINA ☐	RMRS ☐		

Full survey certificated by above - if needed!! ☐



Write max. measurements for the transformers H _____ mm L _____ mm W _____ mm



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