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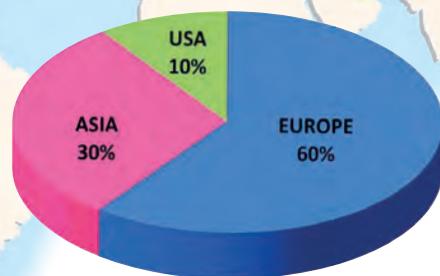
TRANSFORMERS & INDUCTORS

YOUR ENERGY DEMAND
OUR INNOVATIVE
SOLUTIONS



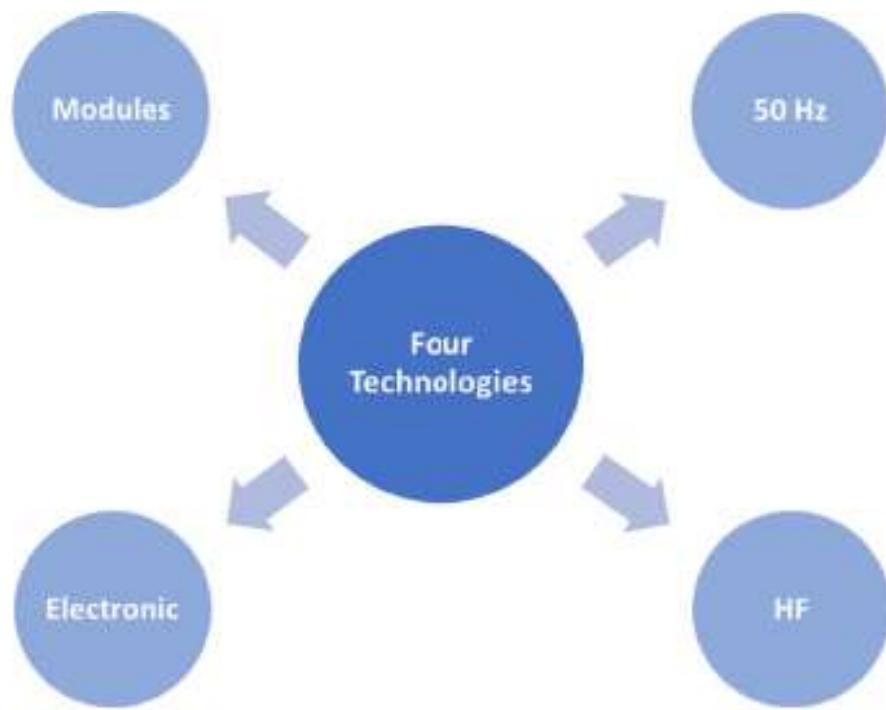
COMPANY PROFILE

Myrra is a major supplier in high quality for electronics components. Myrra has established a worldwide reputation. Myrra design and manufacture high-quality transformers and inductors for industrial use. We supply a blue-chip customer base in a variety of industries, including energy conversion, industrial applications, renewable energy and healthcare. We supply customers all over the world.



A wide range of products : We offer application specific transformers, inductors, chokes and coils,in three technologies: high frequency, 50Hz technology and electronic, enabling us to serve a number of major markets.

MAGNETICS & ELECTRONICS PRODUCTS



Applications

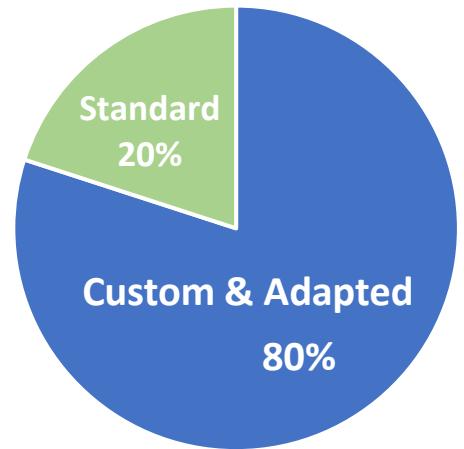
Conversion

Measuring

Filtering

PRODUCTION SPREAD

Each of our clients have different needs & project, that is why most of our products are customized & adapted solutions to the client needs (80%).



Whether it is standard or custom product, each solution needs to be approved by our technical department & raise to our quality standard.

MARKET SEGMENTS

Myrra clients come from various markets & at different position in the product lifecycle (supplier, distributor, end-product ...).

Our presence keeps growing over the years and help us to adapt our product to many applications.

Here's a few examples of our client market :



Industrial



Energy Renewable



Transport

PRODUCT APPLICATION

Each of our product has a wide range of potential applications.

Therefore, it is difficult to state a specific application for our product but here are some examples of application :

- Motor drives
- Connectivity
- Sensors
- Solar PV Inverters/UPS
- X-Ray Scanners
- And many more !

PRODUCT CERTIFICATIONS



PCB Magnetic Components

50-60Hz transformers (44 & 45 series)

- * Full range of standard references
- * Isolating safety application
- * UL, VDE, EN61558 certification
- * Automated - 100% tested production



Passive PFC chokes (43 series)

- * Large range of open & potted standard references



Transformers & inductors for SMPS (74 series)

- * Large application range: flyback transformers, CM chokes etc.
- * International standards compliant
- * Standard products and customized design



THT & SMD Chokes (75-79 series)



POWER RANGE Transformers and chokes for specific applications

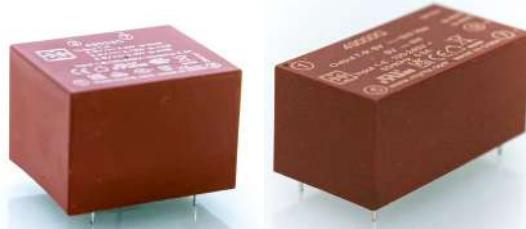
DC, 50-60 Hz and switching applications

- * Customized design on specification
 - Chokes up to 1000A
 - 50-60 Hz transformers up to 20 kVA
 - HF transformers up to 200 kW
- * Insulation systems: B, F, H classes
- * UL, IEC, CSA Compliant



Encapsulated POWER SUPPLY

- * Pioneering alternative to linear transformers in AC/DC application
- * EI30 to EI48 size - Input range: 85V-265VAC
- * Regulated output: 3.3VDC-24VDC/ 2.5W-5W-7W-10W-20W-40W-60W
- * Full compliance with Safety, EMC and Immunity standards



EV Charging

- * Wallbox
- * AC/DC Power Converters



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TECHNICAL INFORMATION

RATED PRIMARY VOLTAGE (V)

This is the supply voltage assigned to the transformer by the manufacturer.

RATED SECONDARY VOLTAGE (V)

This is the secondary output voltage assigned to the transformer when supplied with the rated primary voltage, frequency range, rated secondary current, all assigned by the manufacturer for the specified operating conditions of the transformer.

RATED POWER (VA)

The specified power levels in this catalogue are the secondary power levels, in other words, those available when the transformer is loaded. It is the product of the RMS rated secondary voltage by the RMS rated current. If the transformer has more than one output winding, the rated power denotes the maximum sum of the products of RMS rated secondary voltage by the RMS rated secondary current, respectively. This rated power is defined for rated ambient temperature conditions.

example : $P = 3,2 \text{ VA}$ ta 70°C

The transformer can deliver 3.2VA at maximum ambient (70°C), the load consisting of a resistor load defined by $R(\text{load}) = U(\text{sec})^2/P$ (assigned U sec & P values), heating does not exceed the relevant limit for Class B components used in this construction.

NOTE : When the transformer is intended to supply DC voltage and current in conjunction with rectifiers and smoothing capacitors, the VA power required from the transformer is far higher than the $U(\text{DC})$ and $I(\text{DC})$ product. To help you to determine the true transformer power, our Technical Department is at your disposal.

AMBIENT TEMPERATURE (Ta)

The maximum temperature at which the transformer may be operated continuously under nominal conditions of use. It is the air temperature measured close to the transformer after thermal stabilization when operating at rated conditions.

HEATING

The increase of the winding temperature when operating at rated conditions and maximum ambient temperature. The heating must be determined by the resistance method.

TEMPERATURE CLASS

The international classification of temperature classes is as follows :

A	105°C	H	180 °C
E	120°C	200	200 °C
B	130°C	220	220 °C
F	155°C	250	250 °C

It defines the maximum temperature the transformer components must withstand in continuous operation, in compliance with the N° 85 IEC publication classification. There insulating materials are therefore certificated for the thermal index corresponding to the declared class in accordance with N° 216 IEC standard.

PARTICULAR POINTS OF EN 61558-2-6 STANDARD FOR SAFETY TRANSFORMERS

On-load secondary voltage tolerance.

This should not differ from the rated value by more than :

10% for transformers with built-in resistance to short-circuits (a supplement of 5% is granted on the 2nd secondary for transformers with 2 secondaries).

5% for other transformers whatever the secondaries number.

Off-load secondary voltage.

The values given in this catalogue are maximum theoretical values.

NOTE : For safety transformers, this should never exceed 50 V rms. In the case of a transformer with several secondaries, the sum of the secondary voltages should be less than 50 V rms.

ADAPTED TRANSFORMERS FROM THE STANDARDS SERIES

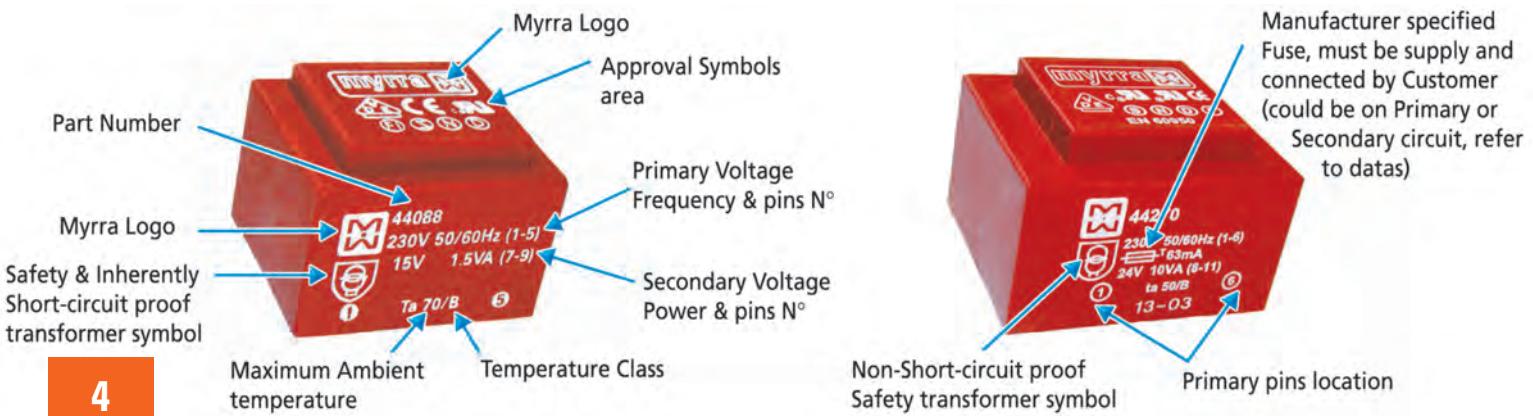
Any transformer whose Power and Ambient corresponding to those of our 44000 & 45000 range, and whose secondary voltage can fit in our minimum to maximum secondary range will be covered by EN61558-2-6, EN60950, or UL506 approvals, depending on the effective choice.

SPECIAL TRANSFORMERS

MYRRA can use the 44000, 45000 or 46000 standard ranges to examine any transformer for compliance with your specifications and with international standards.

On request, we can add thermal protection, thermal fuse, thermal switch-CTP.

In certain cases, the addition of thermal protection enables the ambient temperature to be increased, while still complying with EN 61558.



0,6 VA



EI 30-5

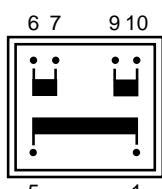
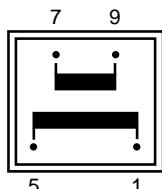


SERIE 44000

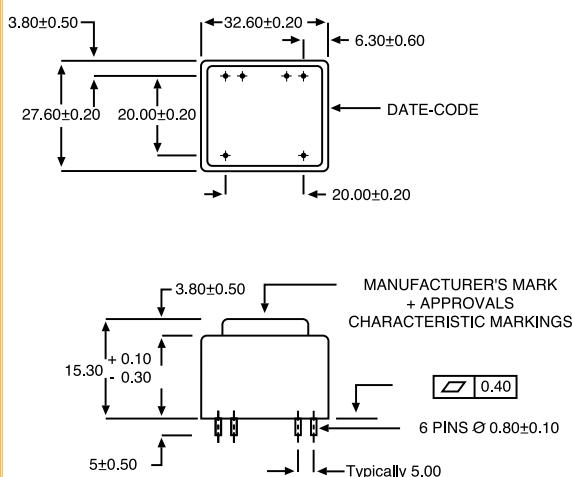


EN 61558-2-6 EN 60950 UL 5085

- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 40 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request



Recommended layout for transformers with 1 secondary winding
(Allows the use of a transformer with 2 secondary windings)



** RECOMMENDED DRILL-HOLE DIAMETER FOR 1,3 mm PINS

QUALITY IN SERIES

PRIMARY VOLTAGE 117 V

Protection	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
	44025	6	100	9,94	T 70 B	0,6
	44026	9	66	14,95	T 70 B	0,6
	44027	12	50	19,9	T 70 B	0,6
	44028	15	40	24,9	T 70 B	0,6
	44029	18	33	29,9	T 70 B	0,6
	44030	24	25	39,8	T 70 B	0,6
	44031	2 x 6	2 x 50	2 x 9,94	T 70 B	0,6
	44032	2 x 9	2 x 33	2 x 14,95	T 70 B	0,6
	44033	2 x 12	2 x 25	2 x 19,9	T 70 B	0,6
	44034	2 x 15	2 x 20	2 x 24,9	T 70 B	0,6
	44035	2 x 18	2 x 17	2 x 29,9	T 70 B	0,6
	44036	2 x 24	2 x 12	2 x 39,8	T 70 B	0,6

PRIMARY VOLTAGE 230 V

Protection	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
	44013	6	100	9,94	T 70 B	0,6
	44014	9	66	14,95	T 70 B	0,6
	44015	12	50	19,9	T 70 B	0,6
	44016	15	40	24,9	T 70 B	0,6
	44017	18	33	29,9	T 70 B	0,6
	44018	24	25	39,8	T 70 B	0,6
	44019	2 x 6	2 x 50	2 x 9,94	T 70 B	0,6
	44020	2 x 9	2 x 33	2 x 14,95	T 70 B	0,6
	44021	2 x 12	2 x 25	2 x 19,9	T 70 B	0,6
	44022*	2 x 15	2 x 20	2 x 24,9	T 70 B	0,6
	44023*	2 x 18	2 x 17	2 x 29,9	T 70 B	0,6
	44024*	2 x 24	2 x 12	2 x 39,8	T 70 B	0,6

*To be noted : * marked transformers are non approved.
Those transformers meet all requirement of EN 61558-2-4.



PRIMARY VOLTAGE

117 V

Protection	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
	44061	6	167	8,6	T 70 B	1
	44062	9	111	12,9	T 70 B	1
	44063	12	83	17,2	T 70 B	1
	44064	15	67	21,6	T 70 B	1
	44065	18	56	25,9	T 70 B	1
	44066	24	42	37,9	T 70 B	1
	44067	2 x 6	2 x 83	2 x 8,6	T 70 B	1
	44068	2 x 9	2 x 56	2 x 12,9	T 70 B	1
	44069	2 x 12	2 x 42	2 x 19	T 70 B	1
	44070	2 x 15	2 x 33	2 x 23,6	T 70 B	1
	44071	2 x 18	2 x 28	2 x 24,9	T 70 B	1
	44072	2 x 24	2 x 21	2 x 37,9	T 70 B	1

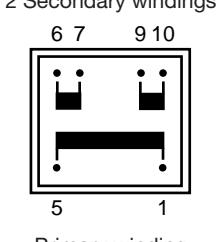
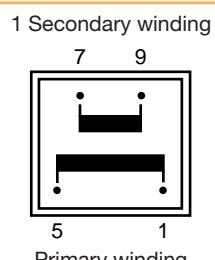
	44338	6	250	10,1	ta 70/B	1,5
	44339	9	167	15,3	ta 70/B	1,5
	44340	12	125	20,2	ta 70/B	1,5
	44341	15	100	25,3	ta 70/B	1,5
	44342	18	83	31,2	ta 70/B	1,5
	44343	24	63	43,3	ta 70/B	1,5
	44344	2 x 6	125	2 x 10,1	ta 70/B	1,5
	44345	2 x 9	83	2 x 15,3	ta 70/B	1,5
	44346	2 x 12	63	2 x 20,2	ta 70/B	1,5
	44347	2 x 15	50	2 x 25,0	ta 70/B	1,5
	44348*	2 x 18	42	2 x 31	ta 70/B	1,5
44349*	2 x 24	31	2 x 43	ta 70/B	1,5	

	44840	6	300	10,1	ta 70/B	1,8
	44841	9	200	15,2	ta 70/B	1,8
	44842	12	150	20,3	ta 70/B	1,8
	44843	15	120	27,3	ta 70/B	1,8
	44844	18	100	30,4	ta 70/B	1,8
	44845	24	75	40,6	ta 70/B	1,8
	44846	2 x 6	2 x 150	2 x 10,1	ta 70/B	1,8
	44847	2 x 9	2 x 100	2 x 15,2	ta 70/B	1,8
	44848	2 x 12	2 x 75	2 x 20,3	ta 70/B	1,8
	44849	2 x 15	2 x 60	2 x 27,3	ta 70/B	1,8

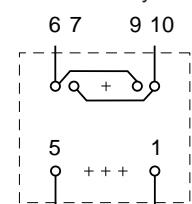


EN 61558-2-6

- Vacuum filling
 - Two compartments bobbins
 - Self-extinguishing plastics UL 94 VO
 - Degree of protection IP 00
 - 70 grams weight
 - Resin class B CEI 85 (20 000 h testing to CEI 126)
 - Inherently short-circuits proof
 - 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)



Recommended layout for transformers with 1 secondary winding



(Allows the use of a transformer with 2 secondary windings)

1-1,8 VA



EI 30-10,5



SERIE 44000

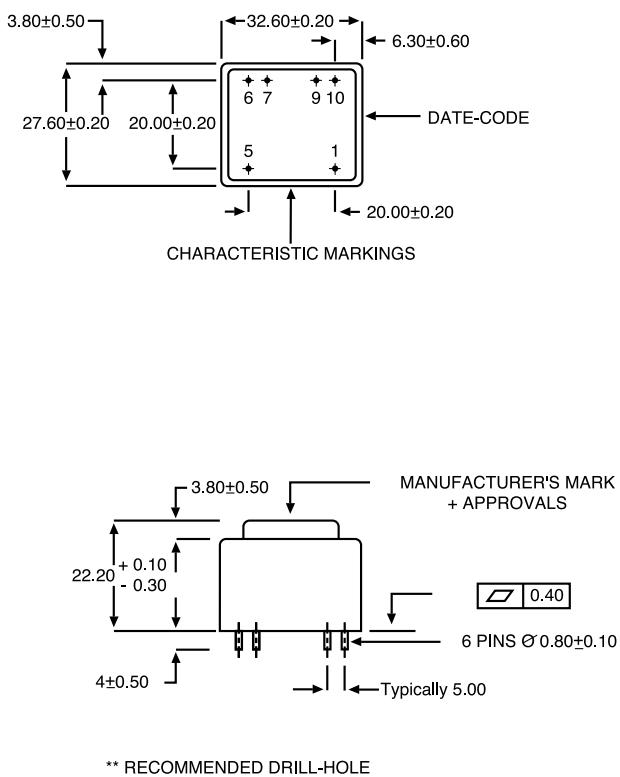


EN 60950 UL 5085

- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted 2 x 15 V and 2 x 24 V models are non-approved.

Those transformers meet all requirement of EN 61558-2-4



PRIMARY VOLTAGE 230 V						
Protection	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
	44049*	6	167	8,6	T 70 B	1
	44050*	9	111	12,9	T 70 B	1
	44051*	12	83	17,2	T 70 B	1
	44052*	15	67	21,6	T 70 B	1
	44053*	18	56	25,9	T 70 B	1
	44054*	24	42	37,9	T 70 B	1
	44055*	2 x 6	2 x 83	2 x 8,6	T 70 B	1
	44056*	2 x 9	2 x 56	2 x 12,9	T 70 B	1
	44057*	2 x 12	2 x 42	2 x 19	T 70 B	1
	44058*	2 x 15	2 x 33	2 x 23,6	T 70 B	1
	44059*	2 x 18	2 x 28	2 x 24,9	T 70 B	1
	44060*	2 x 24	2 x 21	2 x 37,9	T 70 B	1

* Items usually available on stock

	44326	6	250	10,1	ta 70/B	1,5
	44327	9	167	15,3	ta 70/B	1,5
	44328	12	125	20,2	ta 70/B	1,5
	44329	15	100	25,3	ta 70/B	1,5
	44330	18	83	31,2	ta 70/B	1,5
	44331	24	63	43,3	ta 70/B	1,5
	44332	2 x 6	125	2 x 10,1	ta 70/B	1,5
	44333	2 x 9	83	2 x 15,3	ta 70/B	1,5
	44334	2 x 12	63	2 x 20,2	ta 70/B	1,5
	44335	2 x 15	50	2 x 25,0	ta 70/B	1,5
	44336*	2 x 18	42	2 x 31	ta 70/B	1,5
	44337*	2 x 24	31	2 x 43	ta 70/B	1,5

	44830	6	300	10,1	ta 70/B	1,8
	44831	9	200	15,2	ta 70/B	1,8
	44832	12	150	20,3	ta 70/B	1,8
	44833	15	120	27,3	ta 70/B	1,8
	44834	18	100	30,4	ta 70/B	1,8
	44835	24	75	40,6	ta 70/B	1,8
	44836	2 x 6	2 x 150	2 x 10,1	ta 70/B	1,8
	44837	2 x 9	2 x 100	2 x 15,2	ta 70/B	1,8
	44838	2 x 12	2 x 75	2 x 20,3	ta 70/B	1,8
	44839*	2 x 15	2 x 60	2 x 27,3	ta 70/B	1,8

1,5-1,8 VA



EI 30-12,5



SERIE 44000



PRIMARY VOLTAGE 117 V

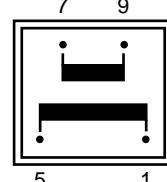
Protection	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
	44097	6	250	9,7	T 70 B	1,5
	44098	9	167	14,5	T 70 B	1,5
	44099	12	125	19,3	T 70 B	1,5
	44100	15	100	24,2	T 70 B	1,5
	44101	18	83	29,8	T 70 B	1,5
	44102	24	63	38,6	T 70 B	1,5
	44103	2 X 6	2 x 125	2 x 9,7	T 70 B	1,5
	44104	2 x 9	2 x 83	2 x 15	T 70 B	1,5
	44105	2 x 12	2 x 63	2 x 19,3	T 70 B	1,5
	44106	2 x 15	2 x 50	2 x 24,2	T 70 B	1,5
	44107	2 x 18	2 x 42	2 x 29	T 70 B	1,5
	44108	2 x 24	2 x 31	2 x 38,6	T 70 B	1,5

	44726	6	283	9,8	T 50 B	1,7
	44727	9	189	14,8	T 50 B	1,7
	44728	12	142	19,7	T 50 B	1,7
	44729	15	113	24,6	T 50 B	1,7
	44730	18	94	30,3	T 50 B	1,7
	44731	24	71	39,3	T 50 B	1,7
	44732	2 x 6	2 x 142	2 x 9,8	T 50 B	1,7
	44733	2 x 9	2 x 94	2 x 15,2	T 50 B	1,7
	44734	2 x 12	2 x 71	2 x 19,7	T 50 B	1,7
	44735	2 x 15	2 x 57	2 x 24,6	T 50 B	1,7
	44736	2 x 18	2 x 47	2 x 29,5	T 50 B	1,7
	44737	2 x 24	2 x 35	2 x 39,3	T 50 B	1,7

	44738	6	300	9,8	T 40 B	1,8
	44739	9	200	14,8	T 40 B	1,8
	44740	12	150	19,7	T 40 B	1,8
	44741	15	120	24,6	T 40 B	1,8
	44742	18	100	30,3	T 40 B	1,8
	44743	24	75	39,3	T 40 B	1,8
	44744	2 x 6	2 x 150	2 x 9,8	T 40 B	1,8
	44745	2 x 9	2 x 100	2 x 15,2	T 40 B	1,8
	44746	2 x 12	2 x 75	2 x 19,7	T 40 B	1,8
	44747	2 x 15	2 x 60	2 x 24,6	T 40 B	1,8
	44748	2 x 18	2 x 50	2 x 29,5	T 40 B	1,8
	44749	2 x 24	2 x 38	2 x 39,3	T 40 B	1,8

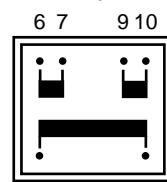
- EN 61558-2-6
- Vacuum filling
 - Two compartments bobbins
 - Self-extinguishing plastics UL 94 VO
 - Degree of protection IP 00
 - 80 grams weight
 - Resin class B CEI 85 (20 000 h testing to CEI 126)
 - Inherently short-circuits proof
 - 30 V model is VDE EN 61558-2-6 certified (production on request)

1 Secondary winding



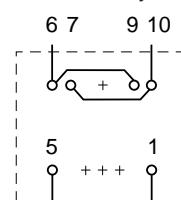
Primary winding

2 Secondary windings



Primary winding

Recommended layout for transformers with 1 secondary winding



(Allows the use of a transformer with 2 secondary windings)

QUALITY IN SERIES

1,5-1,8 VA



EI 30-12,5



SERIE 44000

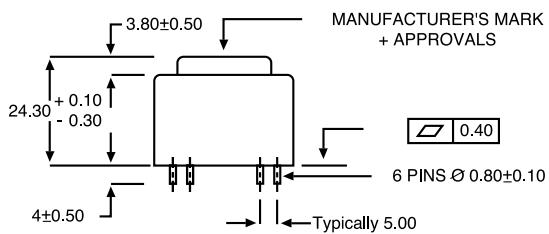
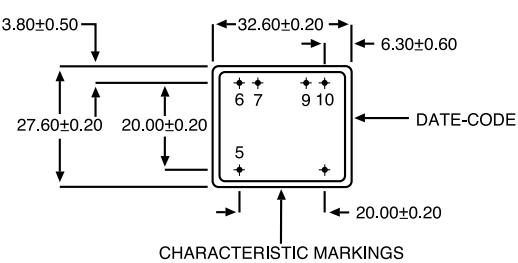


EN 60950 UL 5085

- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 18 V and 2 x 24 V models are non-approved.

Those transformers meet all requirement of EN 61558-2-4



** RECOMMENDED DRILL-HOLE
DIAMETER FOR 1,3 mm PINS

PRIMARY VOLTAGE 230 V

Protection	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
	44085*	6	250	9,7	T 70 B	1,5
	44086*	9	167	14,5	T 70 B	1,5
	44087*	12	125	19,3	T 70 B	1,5
	44088*	15	100	24,2	T 70 B	1,5
	44089*	18	83	29,8	T 70 B	1,5
	44090*	24	63	38,6	T 70 B	1,5
	44091*	2 X 6	2 x 125	2 x 9,7	T 70 B	1,5
	44092*	2 x 9	2 x 83	2 x 15	T 70 B	1,5
	44093*	2 x 12	2 x 63	2 x 19,3	T 70 B	1,5
	44094*	2 x 15	2 x 50	2 x 24,2	T 70 B	1,5
	44095*	2 x 18	2 x 42	2 x 29	T 70 B	1,5
	44096*	2 x 24	2 x 31	2 x 38,6	T 70 B	1,5

* Items usually available on stock

	44647	6	283	9,8	T 50 B	1,7
	44648	9	189	14,8	T 50 B	1,7
	44649	12	142	19,7	T 50 B	1,7
	44650	15	113	24,6	T 50 B	1,7
	44651	18	94	30,3	T 50 B	1,7
	44652	24	71	39,3	T 50 B	1,7
	44653	2 x 6	2 x 142	2 x 9,8	T 50 B	1,7
	44654	2 x 9	2 x 94	2 x 15,2	T 50 B	1,7
	44655	2 x 12	2 x 71	2 x 19,7	T 50 B	1,7
	44656	2 x 15	2 x 57	2 x 24,6	T 50 B	1,7
	44483*	2 x 18	2 x 47	2 x 29,5	T 50 B	1,7
	44484*	2 x 24	2 x 35	2 x 39,3	T 50 B	1,7

	44657	6	300	9,8	T 40 B	1,8
	44658	9	200	14,8	T 40 B	1,8
	44659	12	150	19,7	T 40 B	1,8
	44660	15	120	24,6	T 40 B	1,8
	44661	18	100	30,3	T 40 B	1,8
	44662	24	75	39,3	T 40 B	1,8
	44663	2 x 6	2 x 150	2 x 9,8	T 40 B	1,8
	44664	2 x 9	2 x 100	2 x 15,2	T 40 B	1,8
	44665	2 x 12	2 x 75	2 x 19,7	T 40 B	1,8
	44666	2 x 15	2 x 60	2 x 24,6	T 40 B	1,8
	44485*	2 x 18	2 x 50	2 x 29,5	T 40 B	1,8
	44486*	2 x 24	2 x 38	2 x 39,3	T 40 B	1,8

2-2,4 VA



EI 30-15,5

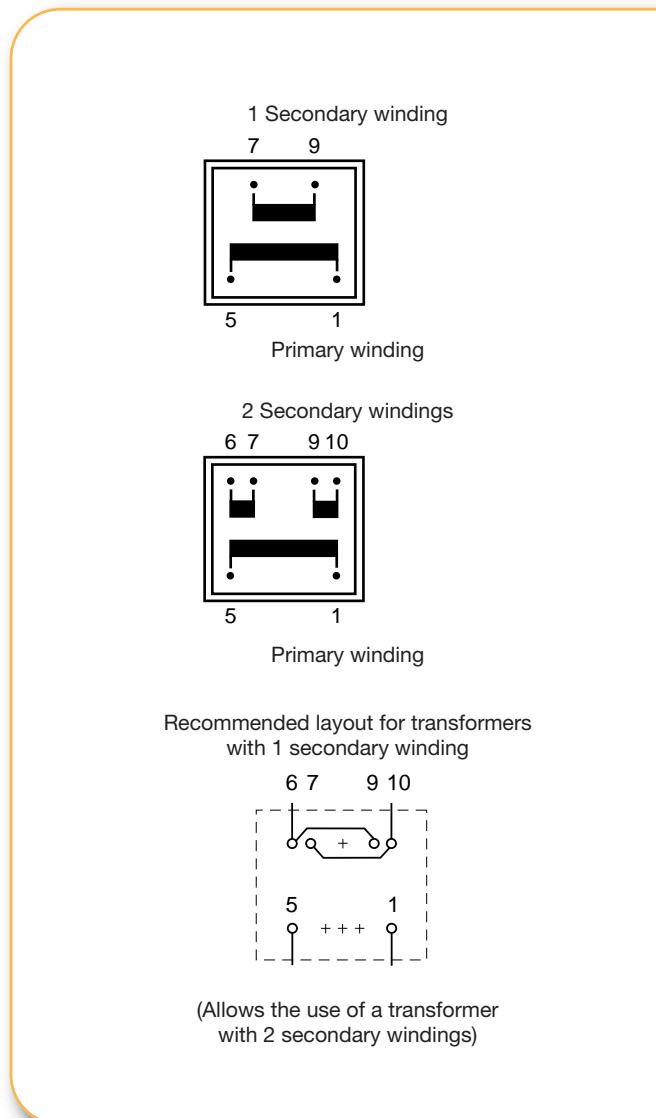


SERIE 44000



Protection	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
	44133	6	333	10,4	T 70 B	2
	44134	9	222	15,5	T 70 B	2
	44135	12	167	20,7	T 70 B	2
	44136	15	133	25,8	T 70 B	2
	44137	18	111	30,8	T 70 B	2
	44138	24	83	41,4	T 70 B	2
	44139	2 X 6	2 x 167	2 x 10,4	T 70 B	2
	44140	2 x 9	2 x 111	2 x 15,4	T 70 B	2
	44141	2 x 12	2 x 83	2 x 20,7	T 70 B	2
	44142	2 x 15	2 x 67	2 x 25,8	T 70 B	2
	44143	2 x 18	2 x 56	2 x 30,8	T 70 B	2
	44144	2 x 24	2 x 42	2 x 41,4	T 70 B	2
	44750	6	383	10,5	T 50 B	2,3
	44751	9	256	15,5	T 50 B	2,3
	44752	12	192	21	T 50 B	2,3
	44753	15	153	25,3	T 50 B	2,3
	44754	18	128	31	T 50 B	2,3
	44755	24	96	42	T 50 B	2,3
	44756	2 x 6	2 x 192	2 x 10,5	T 50 B	2,3
	44757	2 x 9	2 x 128	2 x 15,5	T 50 B	2,3
	44758	2 x 12	2 x 96	2 x 21	T 50 B	2,3
	44759	2 x 15	2 x 77	2 x 24,5	T 50 B	2,3
	44760	2 x 18	2 x 64	2 x 31	T 50 B	2,3
	44761	2 x 24	2 x 48	2 x 42	T 50 B	2,3
	44762	6	400	10,5	T 40 B	2,4
	44763	9	267	15,5	T 40 B	2,4
	44764	12	200	21	T 40 B	2,4
	44765	15	160	25,3	T 40 B	2,4
	44766	18	133	31	T 40 B	2,4
	44767	24	100	42	T 40 B	2,4
	44768	2 x 6	2 x 200	2 x 10,5	T 40 B	2,4
	44769	2 x 9	2 x 133	2 x 15,5	T 40 B	2,4
	44770	2 x 12	2 x 100	2 x 21	T 40 B	2,4
	44771	2 x 15	2 x 80	2 x 24,5	T 40 B	2,4
	44772	2 x 18	2 x 67	2 x 31	T 40 B	2,4
	44773	2 x 24	2 x 50	2 x 42	T 40 B	2,4

- EN 61558-2-6
- Vacuum filling
 - Two compartments bobbins
 - Self-extinguishing plastics UL 94 VO
 - Degree of protection IP 00
 - 100 grams weight
 - Resin class B CEI 85 (20 000 h testing to CEI 126)
 - Inherently short-circuits proof
 - 30 V model is VDE EN 61558-2-6 certified (production on request)
 - Insulation voltage 4 KV



2-2,4 VA



EI 30-15,5



SERIE 44000

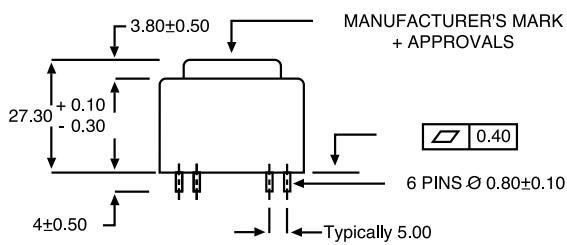
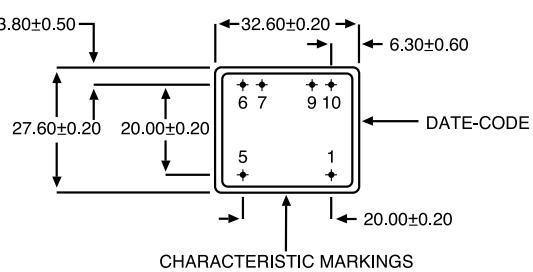


EN 60950 UL 5085

- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 18 V and 2 x 24 V models are non-approved.

Those transformers meet all requirement of EN 61558-2-4



** RECOMMENDED DRILL-HOLE DIAMETER FOR 1.3 mm PINS

PRIMARY VOLTAGE 230 V						
Protection	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
	44121*	6	333	10,4	T 70 B	2
	44122*	9	222	15,5	T 70 B	2
	44123*	12	167	20,7	T 70 B	2
	44124*	15	133	25,8	T 70 B	2
	44125*	18	111	30,8	T 70 B	2
	44126*	24	83	41,4	T 70 B	2
	44127*	2 X 6	2 x 167	2 x 10,4	T 70 B	2
	44128*	2 x 9	2 x 111	2 x 15,4	T 70 B	2
	44129*	2 x 12	2 x 83	2 x 20,7	T 70 B	2
	44130*	2 x 15	2 x 67	2 x 25,8	T 70 B	2
	44131*	2 x 18	2 x 56	2 x 30,8	T 70 B	2
	44132*	2 x 24	2 x 42	2 x 41,4	T 70 B	2

* Items usually available on stock

	44667	6	383	10,5	T 50 B	2,3
	44668	9	256	15,5	T 50 B	2,3
	44669	12	192	21	T 50 B	2,3
	44670	15	153	25,3	T 50 B	2,3
	44671	18	128	31	T 50 B	2,3
	44672	24	96	42	T 50 B	2,3
	44673	2 x 6	2 x 192	2 x 10,5	T 50 B	2,3
	44674	2 x 9	2 x 128	2 x 15,5	T 50 B	2,3
	44675	2 x 12	2 x 96	2 x 21	T 50 B	2,3
	44676	2 x 15	2 x 77	2 x 24,5	T 50 B	2,3
	44487*	2 x 18	2 x 64	2 x 31	T 50 B	2,3
	44488*	2 x 24	2 x 48	2 x 42	T 50 B	2,3

	44677	6	400	10,5	T 40 B	2,4
	44678	9	267	15,5	T 40 B	2,4
	44679	12	200	21	T 40 B	2,4
	44680	15	160	25,3	T 40 B	2,4
	44681	18	133	31	T 40 B	2,4
	44682	24	100	42	T 40 B	2,4
	44683	2 x 6	2 x 200	2 x 10,5	T 40 B	2,4
	44684	2 x 9	2 x 133	2 x 15,5	T 40 B	2,4
	44685	2 x 12	2 x 100	2 x 21	T 40 B	2,4
	44686	2 x 15	2 x 80	2 x 24,5	T 40 B	2,4
	44489*	2 x 18	2 x 67	2 x 31	T 40 B	2,4
	44490*	2 x 24	2 x 50	2 x 42	T 40 B	2,4



PRIMARY VOLTAGE 117 V

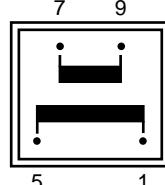
Protection	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
	44169	6	383	10,5	T 70 B	2,3
	44170	9	256	15,7	T 70 B	2,3
	44171	12	192	21	T 70 B	2,3
	44172	15	153	25,9	T 70 B	2,3
	44173	18	128	31,4	T 70 B	2,3
	44174	24	96	41,9	T 70 B	2,3
	44175	2 x 6	2 x 192	2 x 10,5	T 70 B	2,3
	44176	2 x 9	2 x 128	2 x 15,7	T 70 B	2,3
	44177	2 x 12	2 x 96	2 x 21	T 70 B	2,3
	44178	2 x 15	2 x 77	2 x 25,9	T 70 B	2,3
	44179	2 x 18	2 x 64	2 x 31,4	T 70 B	2,3
	44180	2 x 24	2 x 48	2 x 41,9	T 70 B	2,3

	44774	6	450	10,5	T 50 B	2,7
	44775	9	300	15,4	T 50 B	2,7
	44776	12	225	21,1	T 50 B	2,7
	44777	15	180	26,3	T 50 B	2,7
	44778	18	150	30,9	T 50 B	2,7
	44779	24	113	42	T 50 B	2,7
	44780	2 x 6	2 x 225	2 x 10,5	T 50 B	2,7
	44781	2 x 9	2 x 150	2 x 15,4	T 50 B	2,7
	44782	2 x 12	2 x 113	2 x 21,1	T 50 B	2,7
	44783	2 x 15	2 x 90	2 x 26,3	T 50 B	2,7
	44784	2 x 18	2 x 75	2 x 31,5	T 50 B	2,7
	44785	2 x 24	2 x 56	2 x 42,1	T 50 B	2,7

	44786	6	467	10,5	T 40 B	2,8
	44787	9	311	15,4	T 40 B	2,8
	44788	12	233	21,1	T 40 B	2,8
	44789	15	187	26,3	T 40 B	2,8
	44790	18	156	30,9	T 40 B	2,8
	44791	24	117	42,1	T 40 B	2,8
	44792	2 x 6	2 x 233	2 x 10,5	T 40 B	2,8
	44793	2 x 9	2 x 156	2 x 15,4	T 40 B	2,8
	44794	2 x 12	2 x 117	2 x 21,1	T 40 B	2,8
	44795	2 x 15	2 x 93	2 x 26,3	T 40 B	2,8
	44796	2 x 18	2 x 77	2 x 31,5	T 40 B	2,8
	44797	2 x 24	2 x 58	2 x 42,1	T 40 B	2,8

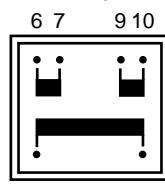
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 70 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Inherently short-circuits proof
- 30 V model is VDE EN 61558-2-6 certified (production on request)

1 Secondary winding



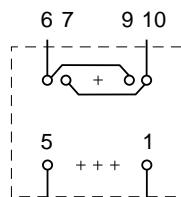
Primary winding

2 Secondary windings



Primary winding

Recommended layout for transformers with 1 secondary winding



(Allows the use of a transformer with 2 secondary windings)

2,3-2,8 VA



EI 30-18



SERIE 44000

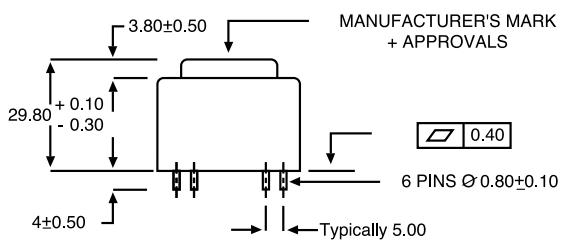
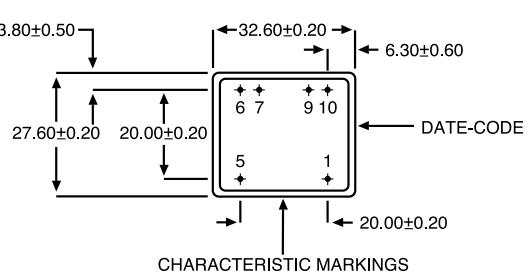


EN 60950 UL 5085

- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 18 V and 2 x 24 V models are non-approved.

Those transformers meet all requirement of EN 61558-2-4



** RECOMMENDED DRILL-HOLE
DIAMETER FOR 1.3 mm PINS

PRIMARY VOLTAGE 230 V

Protection	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
	44157*	6	383	10,5	T 70 B	2,3
	44158*	9	256	15,7	T 70 B	2,3
	44159*	12	192	21	T 70 B	2,3
	44160*	15	153	25,9	T 70 B	2,3
	44161*	18	128	31,4	T 70 B	2,3
	44162*	24	96	41,9	T 70 B	2,3
	44163*	2 X 6	2 x 192	2 x 10,5	T 70 B	2,3
	44164*	2 x 9	2 x 128	2 x 15,7	T 70 B	2,3
	44165*	2 x 12	2 x 96	2 x 21	T 70 B	2,3
	44166*	2 x 15	2 x 77	2 x 25,9	T 70 B	2,3
	44167*	2 x 18	2 x 64	2 x 31,4	T 70 B	2,3
	44168*	2 x 24	2 x 48	2 x 41,9	T 70 B	2,3

* Items usually available on stock

	44687	6	450	10,5	T 50 B	2,7
	44688	9	300	15,4	T 50 B	2,7
	44689	12	225	21,1	T 50 B	2,7
	44690	15	180	26,3	T 50 B	2,7
	44691	18	150	30,9	T 50 B	2,7
	44692	24	113	42	T 50 B	2,7
	44693	2 x 6	2 x 225	2 x 10,5	T 50 B	2,7
	44694	2 x 9	2 x 150	2 x 15,4	T 50 B	2,7
	44695	2 x 12	2 x 113	2 x 21,1	T 50 B	2,7
	44696	2 x 15	2 x 90	2 x 26,3	T 50 B	2,7
	44491*	2 x 18	2 x 75	2 x 31,5	T 50 B	2,7
	44492*	2 x 24	2 x 56	2 x 42,1	T 50 B	2,7

	44697	6	467	10,5	T 40 B	2,8
	44698	9	311	15,4	T 40 B	2,8
	44699	12	233	21,1	T 40 B	2,8
	44700	15	187	26,3	T 40 B	2,8
	44701	18	156	30,9	T 40 B	2,8
	44702	24	117	42,1	T 40 B	2,8
	44703	2 x 6	2 x 233	2 x 10,5	T 40 B	2,8
	44704	2 x 9	2 x 156	2 x 15,4	T 40 B	2,8
	44705	2 x 12	2 x 117	2 x 21,1	T 40 B	2,8
	44706	2 x 15	2 x 93	2 x 26,3	T 40 B	2,8
	44493*	2 x 18	2 x 70	2 x 31,5	T 40 B	2,8
	44494*	2 x 24	2 x 58	2 x 42,1	T 40 B	2,8

3,2 VA



EI 38-13,6



SERIE 44000



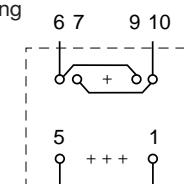
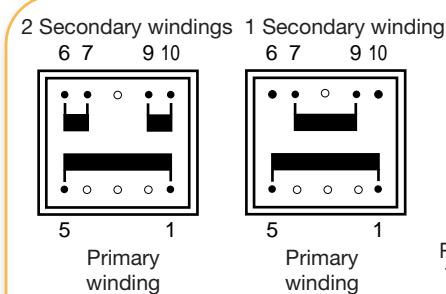
PRIMARY VOLTAGE 117 V

Secondary protection mA	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
630	44205	6	533	8	T 70 B	3,2
400	44206	9	356	12	T 70 B	3,2
315	44207	12	267	16	T 70 B	3,2
250	44208	15	213	20	T 70 B	3,2
200	44209	18	178	24,1	T 70 B	3,2
160	44210	24	133	32,1	T 70 B	3,2
315	44211	2 x 6	2 x 267	2 x 8	T 70 B	3,2
200	44212	2 x 9	2 x 178	2 x 12	T 70 B	3,2
160	44213	2 x 12	2 x 133	2 x 16	T 70 B	3,2
125	44214	2 x 15	2 x 107	2 x 20	T 70 B	3,2
100	44215	2 x 18	2 x 89	2 x 24	T 70 B	3,2
80	44216	2 x 24	2 x 67	2 x 32,1	T 70 B	3,2



EN 61558-2-6

- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 150 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on secondary side (see diagram) to be assumed by customer



Recommended layout for transformers with 1 secondary winding (Allows the use of a transformer with 2 secondary windings)

5 VA



EI 42-14,8

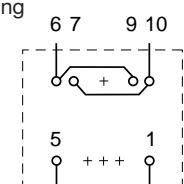
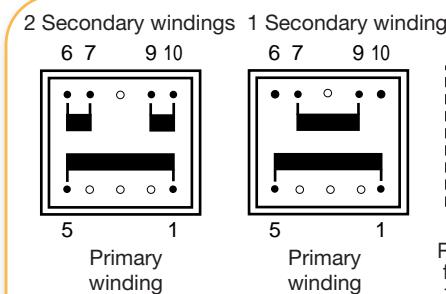


SERIE 44000



EN 61558-2-6

- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 200 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on secondary side (see diagram) to be assumed by customer



Recommended layout for transformers with 1 secondary winding (Allows the use of a transformer with 2 secondary windings)

3,2 VA



EI 38-13,6



SERIE 44000

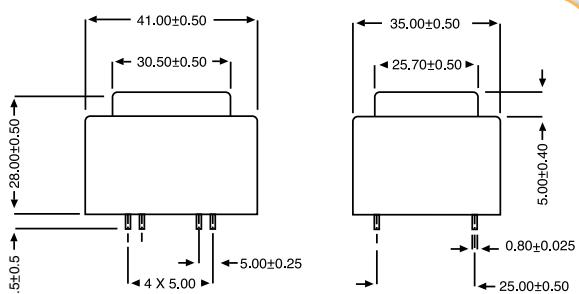


EN 60950 UL 5085

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 24 V model is non-approved.

Those transformers meet all requirement of EN 61558-2-4



** RECOMMENDED DRILL-HOLE DIAMETER FOR 1,3 mm PINS

5 VA



EI 42-14,8



SERIE 44000

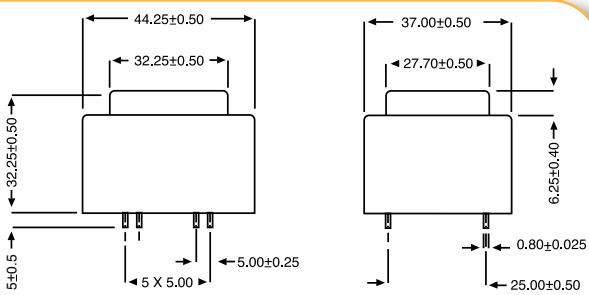


EN 60950 UL 5085

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 24 V model is non-approved.

Those transformers meet all requirement of EN 61558-2-4



** RECOMMENDED DRILL-HOLE DIAMETER FOR 1,3 mm PINS

PRIMARY VOLTAGE 230 V						
Secondary protection mA	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
630	44193	6	533	8	T 70 B	3,2
400	44194	9	356	12	T 70 B	3,2
315	44195	12	267	16	T 70 B	3,2
250	44196	15	213	20	T 70 B	3,2
200	44197	18	178	24,1	T 70 B	3,2
160	44198	24	133	32,1	T 70 B	3,2
315	44199	2 x 6	2 x 267	2 x 8	T 70 B	3,2
200	44200	2 x 9	2 x 178	2 x 12	T 70 B	3,2
160	44201	2 x 12	2 x 133	2 x 16	T 70 B	3,2
125	44202	2 x 15	2 x 107	2 x 20	T 70 B	3,2
100	44203	2 x 18	2 x 89	2 x 24	T 70 B	3,2
80	44204*	2 x 24	2 x 67	2 x 32,1	T 70 B	3,2

PRIMARY VOLTAGE 230 V						
Secondary protection mA	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
800	44229	6	833	8,4	T 50 B	5
630	44230	9	556	12,6	T 50 B	5
400	44231	12	417	16,9	T 50 B	5
315	44232	15	333	21	T 50 B	5
315	44233	18	278	25,3	T 50 B	5
200	44234	24	208	33,7	T 50 B	5
400	44235	2 x 6	2 x 417	2 x 8,4	T 50 B	5
315	44236	2 x 9	2 x 278	2 x 12,6	T 50 B	5
200	44237	2 x 12	2 x 208	2 x 16,9	T 50 B	5
160	44238	2 x 15	2 x 167	2 x 21	T 50 B	5
160	44239	2 x 18	2 x 139	2 x 25,3	T 50 B	5
100	44240*	2 x 24	2 x 104	2 x 33,7	T 50 B	5

10 VA



EI 48-16,8



SERIE 44000



PRIMARY VOLTAGE 117 V

Primary protection mA	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
125	44277	6	1667	7,2	T 50 B	10
125	44278	9	1111	10,8	T 50 B	10
125	44279	12	833	14,4	T 50 B	10
125	44280	15	667	18,1	T 50 B	10
125	44281	18	556	21,6	T 50 B	10
125	44282	24	417	28,9	T 50 B	10
125	44283	2 x 6	2 x 833	2 x 7,2	T 50 B	10
125	44284	2 x 9	2 x 556	2 x 10,8	T 50 B	10
125	44285	2 x 12	2 x 417	2 x 14,4	T 50 B	10
125	44286	2 x 15	2 x 333	2 x 18,1	T 50 B	10
125	44287	2 x 18	2 x 278	2 x 21,6	T 50 B	10
125	44288	2 x 24	2 x 208	2 x 28,9	T 50 B	10

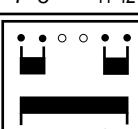


EN 61558-2-6

- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 300 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on primary side (see diagram) to be assumed by customer

2 Secondary windings

7 8 11 12

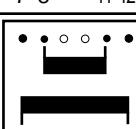


6 1

Primary winding

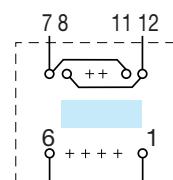
1 Secondary winding

7 8 11 12



6 1

Primary winding



Recommended layout for transformers with 1 secondary winding (Allows the use of a transformer with 2 secondary windings)

16 VA



EI 54-18,8



SERIE 44000



PRIMARY VOLTAGE 117 V

Secondary protection mA	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
2,5	44313	6	2667	7,4	T 50 B	16
2,0	44314	9	1778	11,1	T 50 B	16
1,25	44315	12	1333	14,7	T 50 B	16
1	44316	15	1067	18,4	T 50 B	16
1	44317	18	889	22,1	T 50 B	16
0,63	44318	24	667	29,3	T 50 B	16
1,25	44319	2 x 6	2 x 1333	2 x 7,4	T 50 B	16
1	44320	2 x 9	2 x 889	2 x 11,1	T 50 B	16
0,63	44321	2 x 12	2 x 667	2 x 14,7	T 50 B	16
0,5	44322	2 x 15	2 x 533	2 x 18,4	T 50 B	16
0,5	44323	2 x 18	2 x 444	2 x 22	T 50 B	16
0,315	44324	2 x 24	2 x 333	2 x 29,3	T 50 B	16

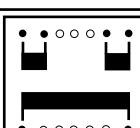


EN 61558-2-6

- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 400 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on secondary side (see diagram) to be assumed by customer

2 Secondary windings

8 9 13 14

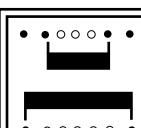


7 1

Primary winding

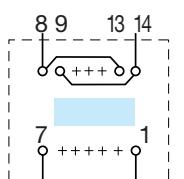
1 Secondary winding

8 9 13 14



7 1

Primary winding



Recommended layout for transformers with 1 secondary winding (Allows the use of a transformer with 2 secondary windings)

10 VA



EI 48-16,8



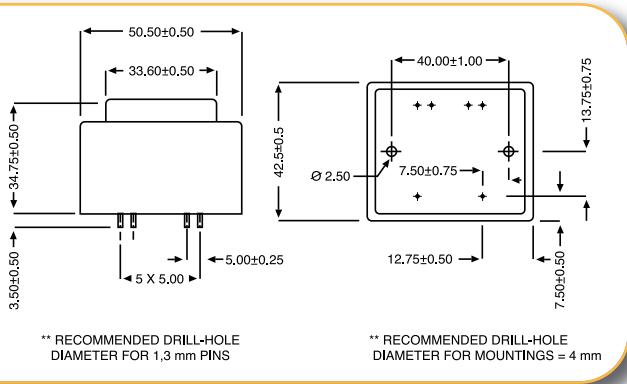
SERIE 44000



EN 60950 UL 5085

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 24 V model is non-approved.
Those transformers meet all requirement of EN 61558-2-4



PRIMARY VOLTAGE 230 V

Primary protection mA	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
63	44265	6	1667	7,2	T 50 B	10
63	44266	9	1111	10,8	T 50 B	10
63	44267	12	833	14,4	T 50 B	10
63	44268	15	667	18,1	T 50 B	10
63	44269	18	556	21,6	T 50 B	10
63	44270	24	417	28,9	T 50 B	10
63	44271	2 x 6	2 x 833	2 x 7,2	T 50 B	10
63	44272	2 x 9	2 x 556	2 x 10,8	T 50 B	10
63	44273	2 x 12	2 x 417	2 x 14,4	T 50 B	10
63	44274	2 x 15	2 x 333	2 x 18,1	T 50 B	10
63	44275	2 x 18	2 x 278	2 x 21,6	T 50 B	10
63	44276*	2 x 24	2 x 208	2 x 28,9	T 50 B	10

16 VA



EI 54-18,8



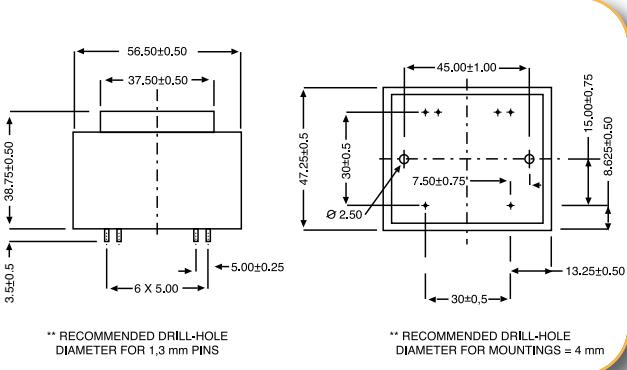
SERIE 44000



EN 60950 UL 5085

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 24 V model is non-approved.
Those transformers meet all requirement of EN 61558-2-4



PRIMARY VOLTAGE 230 V

Secondary protection mA	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
2,500	44301	6	2667	7,4	T 50 B	16
2,000	44302	9	1778	11,1	T 50 B	16
1,25	44303	12	1333	14,7	T 50 B	16
1	44304	15	1067	18,4	T 50 B	16
1	44305	18	889	22,1	T 50 B	16
0,63	44306	24	667	29,3	T 50 B	16
1,25	44307	2 x 6	2 x 1333	2 x 7,4	T 50 B	16
1	44308	2 x 9	2 x 889	2 x 11,1	T 50 B	16
0,63	44309	2 x 12	2 x 667	2 x 14,7	T 50 B	16
0,5	44310	2 x 15	2 x 533	2 x 18,4	T 50 B	16
0,5	44311	2 x 18	2 x 444	2 x 22	T 50 B	16
0,315	44312*	2 x 24	2 x 333	2 x 29,3	T 50 B	16

22 VA



EI 60-21



SERIE 44000



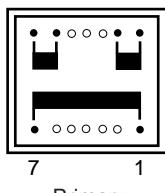
PRIMARY VOLTAGE 117 V

Primary protection mA	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
250	44444	6	3667	6,8	T 50 B	22
250	44445	9	2444	10,3	T 50 B	22
250	44446	12	1833	13,7	T 50 B	22
250	44447	15	1467	17,1	T 50 B	22
250	44448	18	1222	20,5	T 50 B	22
250	44449	24	917	27,3	T 50 B	22
250	44450	2 x 6	2 x 1833	2 x 6,8	T 50 B	22
250	44451	2 x 9	2 x 1222	2 x 10,3	T 50 B	22
250	44452	2 x 12	2 x 917	2 x 13,7	T 50 B	22
250	44453	2 x 15	2 x 733	2 x 17,1	T 50 B	22
250	44454	2 x 18	2 x 611	2 x 20,5	T 50 B	22
250	44455	2 x 24	2 x 458	2 x 27,3	T 50 B	22

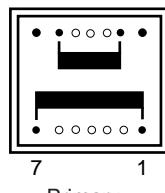


EN 61558-2-6

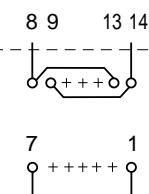
- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 550 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on primary side (see diagram) to be assumed by customer

2 Secondary windings
8 9 13 14

Primary winding

1 Secondary winding
8 9 13 14

Primary winding



Recommended layout for transformers with 1 secondary winding (Allows the use of a transformer with 2 secondary windings)

30 VA



EI 66-23



SERIE 44000



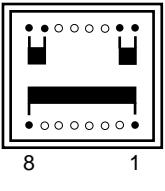
PRIMARY VOLTAGE 117 V

Primary protection mA	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
315	44385	6	5000	6,9	T 50 B	30
315	44386	9	3333	10,3	T 50 B	30
315	44387	12	2500	13,8	T 50 B	30
315	44388	15	2000	17,2	T 50 B	30
315	44389	18	1667	20,8	T 50 B	30
315	44390	24	1250	27,7	T 50 B	30
315	44391	2 x 6	2 x 2500	2 x 6,9	T 50 B	30
315	44392	2 x 9	2 x 1667	2 x 10,3	T 50 B	30
315	44393	2 x 12	2 x 1250	2 x 13,8	T 50 B	30
315	44394	2 x 15	2 x 1000	2 x 17,2	T 50 B	30
315	44395	2 x 18	2 x 833	2 x 20,8	T 50 B	30
315	44396	2 x 24	2 x 625	2 x 27,7	T 50 B	30

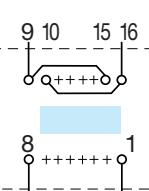
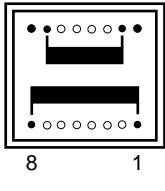


EN 61558-2-6

- Vacuum filling
- Two compartments bobbins
- Self-extinguishing plastics UL 94 VO
- Degree of protection IP 00
- 700 grams weight
- Resin class B CEI 85 (20 000 h testing to CEI 126)
- Fuse protection on primary side (see diagram) to be assumed by customer

2 Secondary windings
9 10 15 16

Primary winding

1 Secondary winding
9 10 15 16

Recommended layout for transformers with 1 secondary winding (Allows the use of a transformer with 2 secondary windings)

22 VA



EI 60-21



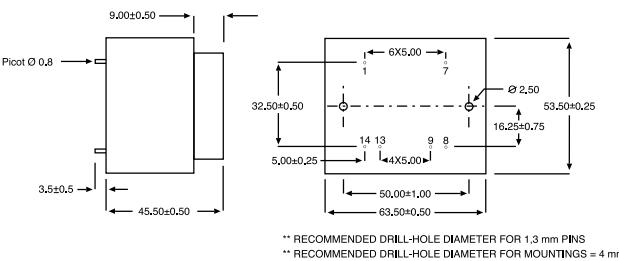
SERIE 44000



EN 60950 UL 5085

- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 24 V model is non-approved.
Those transformers meet all requirement of EN 61558-2-4



PRIMARY VOLTAGE 230 V

Primary protection mA	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
125	44432	6	3667	6,8	T 50 B	22
125	44433	9	2444	10,3	T 50 B	22
125	44434	12	1833	13,7	T 50 B	22
125	44435	15	1467	17,1	T 50 B	22
125	44436	18	1222	20,5	T 50 B	22
125	44437	24	917	27,3	T 50 B	22
125	44438	2 x 6	2 x 1833	2 x 6,8	T 50 B	22
125	44439	2 x 9	2 x 1222	2 x 10,3	T 50 B	22
125	44440	2 x 12	2 x 917	2 x 13,7	T 50 B	22
125	44441	2 x 15	2 x 733	2 x 17,1	T 50 B	22
125	44442	2 x 18	2 x 611	2 x 20,5	T 50 B	22
125	44443*	2 x 24	2 x 458	2 x 27,3	T 50 B	22

30 VA



EI 66-23



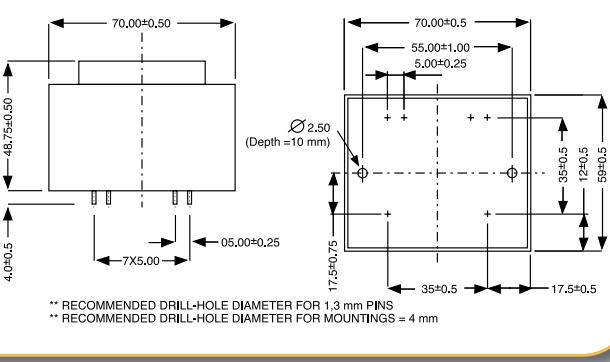
SERIE 44000



EN 60950 UL 5085

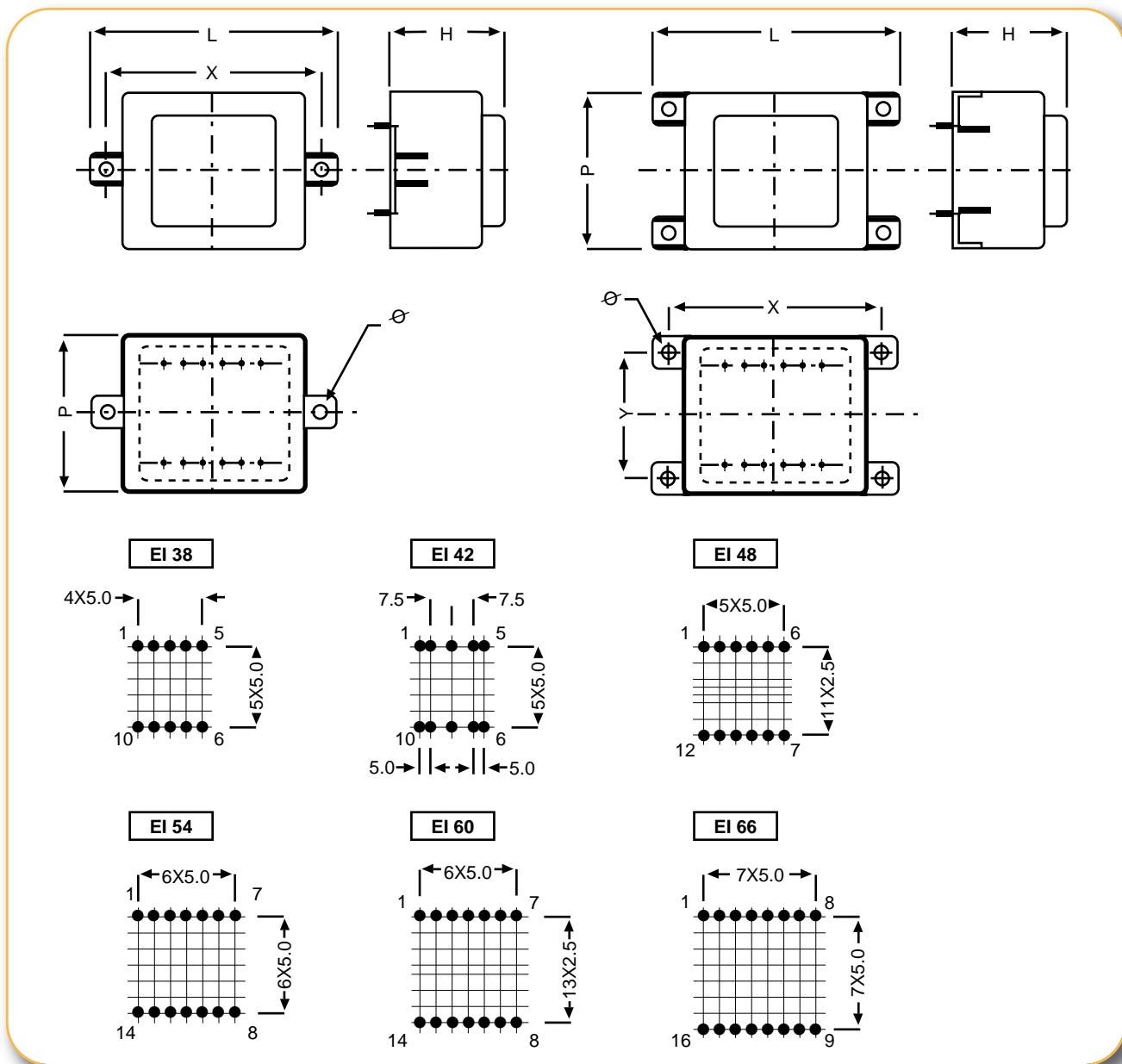
- 30 V and 36 V models are VDE EN 61558-2-6 certified (production on request)
- Insulation voltage 4 KV
- 100 % tested production
- Certification : CCA procedure on request

*To be noted : 2 x 24 V model is non-approved.
Those transformers meet all requirement of EN 61558-2-4



PRIMARY VOLTAGE 230 V

Primary protection mA	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C	Rating VA
160	44373	6	5000	6,9	T 50 B	30
160	44374	9	3333	10,3	T 50 B	30
160	44375	12	2500	13,8	T 50 B	30
160	44376	15	2000	17,2	T 50 B	30
160	44377	18	1667	20,8	T 50 B	30
160	44378	24	1250	27,7	T 50 B	30
160	44379	2 x 6	2 x 2500	2 x 6,9	T 50 B	30
160	44380	2 x 9	2 x 1667	2 x 10,3	T 50 B	30
160	44381	2 x 12	2 x 1250	2 x 13,8	T 50 B	30
160	44382	2 x 15	2 x 1000	2 x 17,2	T 50 B	30
160	44383	2 x 18	2 x 833	2 x 20,8	T 50 B	30
160	44384*	2 x 24	2 x 625	2 x 27,7	T 50 B	30



CIRCUIT	L ± 0,50	P ± 0,40	H ± 0,40	X ± 0,50	Y ± 0,50	Ø ±0,3
EI 38 X 13,6	55,6	34,9	28,1	47,5		3,2
EI 42 X 14,8	64	37	32,3	55,0		4,2
EI 48 X 16,8	69	42,3	34,6	60		4,2
EI 54 X 18,8	74	47,3	38,8	65		4,2
EI 60 X 21	81,5	53,3	44,7	72,5	43,5	4,2
EI 66 X 23	87,2	58,6	48,5	77,5	47,5	4,2

Series 44000 transformers can be equipped with boxes with lugs and also 2,8 «faston» terminal tags while still conforming to the specifications in the standard references.

- For boxes with 2 lugs and pin type output, add suffix 1 to the reference of the standard transformer (example : 44198-1)
- For boxes with 2 lugs and 2,8 «faston» output, add suffix 2 to the reference of the standard transformer (example : 44199-2)
- For boxes with 4 lugs and pin type output, add suffix 3 to the reference of the standard transformer (example : 44200-3)
- For boxes with 4 lugs and 2,8 «faston» output, add suffix 4 to the reference of the standard transformer (example : 44201-4)

These models are not available on stock.

1 VA



UI 21



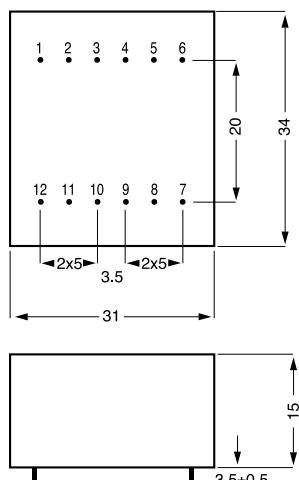
SERIE 45000

EN 61558-2-6 EN 60950 UL 5085 ¹⁰

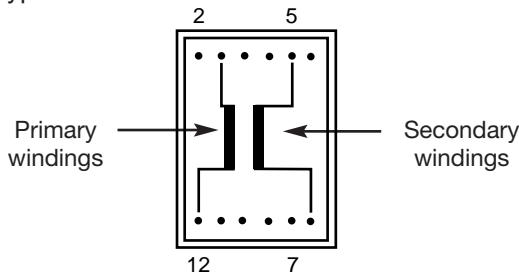
- 1 VA**
- 230 V supply voltage by series/parallel connection
 - Vacuum filling
 - One compartment housing 1 VA
 - Two compartments bobbins 0,8 VA
 - Degree of protection IP 00
 - 50 grams weight

- Resin UL 94 VO
- Design protection against short-circuits
- Insulation voltage 4 KV
- 100 % tested production

Conform to EN 61558 - UL 5085



Type 1 VA



PRIMARY VOLTAGE 230 V					
Protection	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C
UI 21	230 V	1 VA			
	45001	6	167	11,4	T 70 B
	45002	9	111	17	T 70 B
	45003	12	83	22,8	T 70 B
	45004	15	67	28,5	T 70 B
	45005	18	56	34,2	T 70 B
	45006	24	42	45,6	T 70 B

QUALITY IN SERIES

3-10 VA



UI 30



SERIE 45000

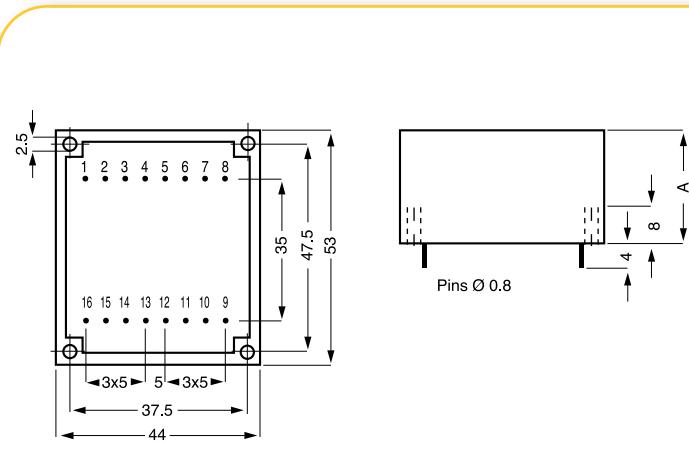


EN 61558-2-6

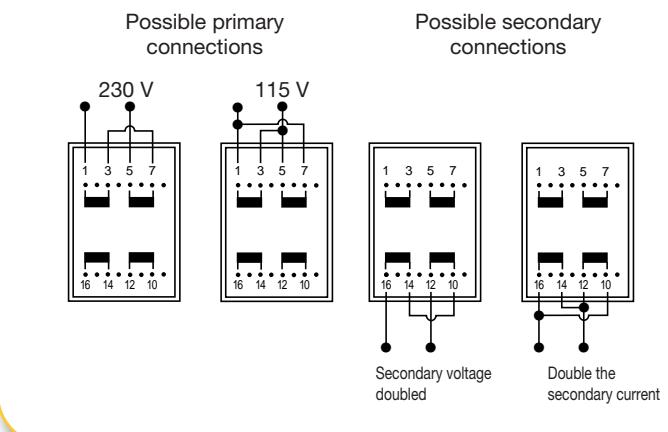
PRIMARY VOLTAGE 115 V - 230 V

Protection	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C
UI 30 x 5,5					2 VA
	45292	2 x 6	2 x 167	2 x 10,2	T 70 B
	45293	2 x 9	2 x 111	2 x 15,9	T 70 B
	45294	2 x 12	2 x 83	2 x 20,4	T 70 B
	45295	2 x 15	2 x 67	2 x 25,5	T 70 B
	45296	2 x 18	2 x 56	2 x 30,6	T 70 B
	45297	2 x 24	2 x 42	2 x 40,8	T 70 B
UI 30 x 5,5 Secondary protection mA					3 VA
250	45013	2 x 6	2 x 250	2 x 9,8	T 70 B
160	45014	2 x 9	2 x 167	2 x 14,7	T 70 B
125	45015	2 x 12	2 x 125	2 x 19,6	T 70 B
100	45016	2 x 15	2 x 100	2 x 24,5	T 70 B
80	45017	2 x 18	2 x 83	2 x 29,5	T 70 B
63	45018	2 x 24	2 x 63	2 x 39,3	T 70 B
UI 30 x 7,5 Secondary protection mA					4 VA
315	45019	2 x 6	2 x 333	2 x 9,4	T 70 B
250	45020	2 x 9	2 x 222	2 x 14,0	T 70 B
160	45021	2 x 12	2 x 167	2 x 18,6	T 70 B
125	45022	2 x 15	2 x 133	2 x 23,3	T 70 B
125	45023	2 x 18	2 x 111	2 x 28,0	T 70 B
80	45024	2 x 24	2 x 83	2 x 37,4	T 70 B
UI 30 x 10,5 Secondary protection mA					6 VA
500	45025	2 x 6	2 x 500	2 x 8,1	T 70 B
315	45026	2 x 9	2 x 333	2 x 12,1	T 70 B
250	45027	2 x 12	2 x 250	2 x 16,2	T 70 B
200	45028	2 x 15	2 x 200	2 x 20,2	T 70 B
160	45029	2 x 18	2 x 167	2 x 24,3	T 70 B
125	45030	2 x 24	2 x 125	2 x 32,3	T 70 B
UI 30 x 16,5 Primary protection mA					10 VA
125/63	45031	2 x 6	2 x 833	2 x 7,9	T 50 B
125/63	45032	2 x 9	2 x 556	2 x 11,9	T 50 B
125/63	45033	2 x 12	2 x 417	2 x 15,9	T 50 B
125/63	45034	2 x 15	2 x 333	2 x 19,8	T 50 B
125/63	45035	2 x 18	2 x 278	2 x 23,7	T 50 B
125/63	45036	2 x 24	2 x 208	2 x 31,7	T 50 B

- 115 V- 230 V supply voltage by series/parallel connection
- Vacuum filling
- Two compartments bobbins
- Degree of protection IP 00
- Resin class UL 94 VO



CIRCUIT	RATING	DIMENSION A	WEIGHT
UI 30 x 5,5	2 VA/3 VA	A = 17 mm	125 g
UI 30 x 7,5	4 VA	A = 19 mm	150 g
UI 30 x 10,5	6 VA	A = 22 mm	185 g
UI 30 x 16,5	10 VA	A = 28 mm	260 g



QUALITY IN SERIES

10-30 VA



UI 39

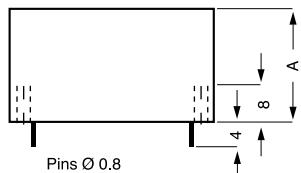
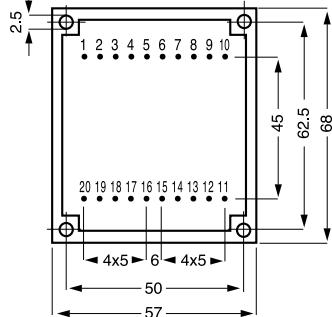


SERIE 45000



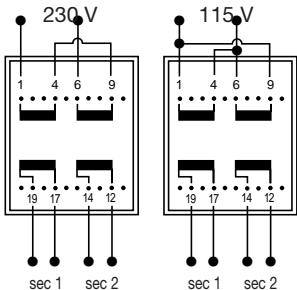
EN 60950 UL 5085

- Fuse protection in secondary winding (see diagram)
- Insulation voltage 4 KV
- 100 % tested production
- Conform to EN 61558
Approval under process
- UL 5085 approved

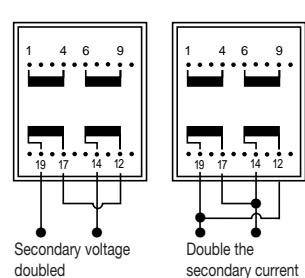


CIRCUIT	RATING	DIMENSION A	WEIGHT
UI 39 x 8	10 VA	A = 22 mm	285 g
UI 39 x 10,2	14 VA	A = 24 mm	335 g
UI 39 x 13,5	18 VA	A = 27 mm	405 g
UI 39 x 17	24 VA	A = 31 mm	480 g
UI 39 x 21	30 VA	A = 35 mm	550 g

Possible primary connections



Possible secondary connections



PRIMARY VOLTAGE 115 V - 230 V

Primary protection 115 V/230 V mA	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C
UI 39 x 8 10 VA					
125/63	45037	2 x 6	2 x 833	2 x 8,2	T 50 B
125/63	45038	2 x 9	2 x 555	2 x 12,3	T 50 B
125/63	45039	2 x 12	2 x 416	2 x 16,4	T 50 B
125/63	45040	2 x 15	2 x 333	2 x 20,5	T 50 B
125/63	45041	2 x 18	2 x 277	2 x 24,6	T 50 B
125/63	45042	2 x 24	2 x 208	2 x 32,8	T 50 B
UI 39 x 10,2 14 VA					
160/80	45043	2 x 6	2 x 1167	2 x 7,5	T 50 B
160/80	45044	2 x 9	2 x 778	2 x 10,9	T 50 B
160/80	45045	2 x 12	2 x 583	2 x 15,0	T 50 B
160/80	45046	2 x 15	2 x 467	2 x 18,7	T 50 B
160/80	45047	2 x 18	2 x 389	2 x 22,4	T 50 B
160/80	45048	2 x 24	2 x 292	2 x 30,2	T 50 B
UI 39 x 13,5 18 VA					
200/100	45049	2 x 6	2 x 1500	2 x 7,4	T 50 B
200/100	45050	2 x 9	2 x 1000	2 x 11,0	T 50 B
200/100	45051	2 x 12	2 x 750	2 x 14,7	T 50 B
200/100	45052	2 x 15	2 x 600	2 x 18,3	T 50 B
200/100	45053	2 x 18	2 x 500	2 x 22,0	T 50 B
200/100	45054	2 x 24	2 x 375	2 x 29,4	T 50 B
UI 39 x 17 24 VA					
250/125	45055	2 x 6	2 x 2000	2 x 7,1	T 50 B
250/125	45056	2 x 9	2 x 1333	2 x 10,6	T 50 B
250/125	45057	2 x 12	2 x 1000	2 x 14,1	T 50 B
250/125	45058	2 x 15	2 x 800	2 x 17,6	T 50 B
250/125	45059	2 x 18	2 x 667	2 x 21,2	T 50 B
250/125	45060	2 x 24	2 x 500	2 x 28,3	T 50 B
UI 39 x 21 30 VA					
315/160	45061	2 x 6	2 x 2500	2 x 6,7	T 50 B
315/160	45062	2 x 9	2 x 1667	2 x 10,15	T 50 B
315/160	45063	2 x 12	2 x 1250	2 x 13,5	T 50 B
315/160	45064	2 x 15	2 x 1000	2 x 16,8	T 50 B
315/160	45065	2 x 18	2 x 833	2 x 20,2	T 50 B
315/160	45066	2 x 24	2 x 625	2 x 27,0	T 50 B

40-60 VA

UI 48

SERIE 45000



EN 61558-2-6

EN 60950

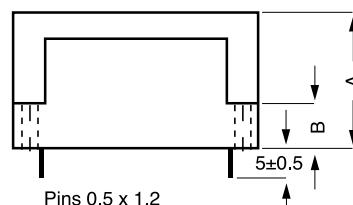
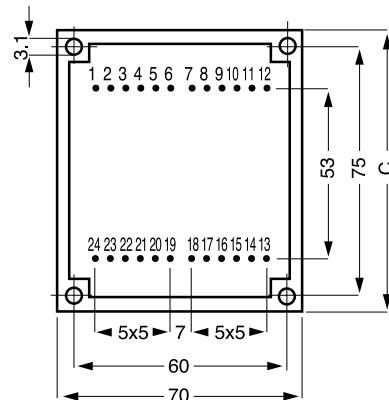
UL 5085



- 115 V- 230 V supply voltage by series/parallel connection
- Vacuum filling
- Two compartments bobbins
- Degree of protection IP 00
- Resin class UL 94 VO

- Fuse protection in secondary winding (see diagram)
- Insulation voltage 4 KV
- 100 % tested production
- Conform to EN 61558 Approval under process
- UL 5085 approved

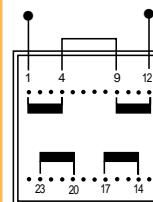
PRIMARY VOLTAGE 115 V - 230 V					
Primary protection 115/230 V mA	Reference	Secondary voltage V	Secondary current mA	No-load voltage V	Ambient Temperature °C
UI 48 x 17					
400/200	45067	2 x 6	2 x 3333	2 x 6,7	T 50 B
400/200	45068	2 x 9	2 x 2222	2 x 10,0	T 50 B
400/200	45069	2 x 12	2 x 1667	2 x 13,4	T 50 B
400/200	45070	2 x 15	2 x 1333	2 x 16,7	T 50 B
400/200	45071	2 x 18	2 x 1111	2 x 20,1	T 50 B
400/200	45072	2 x 24	2 x 833	2 x 26,8	T 50 B
UI 48 x 26					
630/315	45073	2 x 6	2 x 5000	2 x 6,6	T 50 B
630/315	45074	2 x 9	2 x 3333	2 x 9,9	T 50 B
630/315	45075	2 x 12	2 x 2500	2 x 13,1	T 50 B
630/315	45076	2 x 15	2 x 2000	2 x 16,4	T 50 B
630/315	45077	2 x 18	2 x 1667	2 x 19,7	T 50 B
630/315	45078	2 x 24	2 x 1250	2 x 26,3	T 50 B



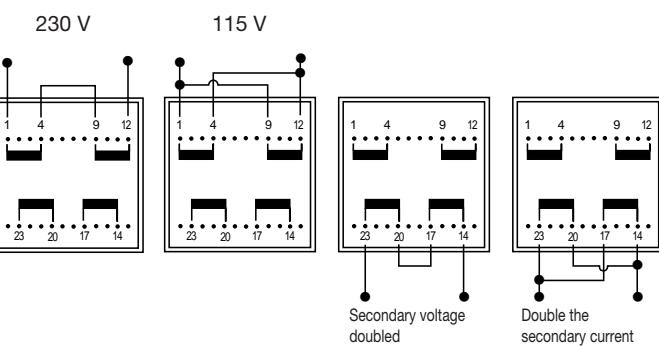
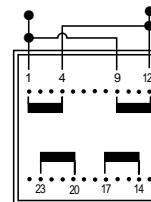
CIRCUIT	RATING	A	B	C	WEIGHT
UI 48 x 17	40 VA	38,5	13,5	83	760 g
UI 48 x 26	60 VA	48,5	14,5	86	1060 g

Possible primary connections

230 V



115 V



QUALITY IN SERIES



SIDE-MOUNTING TRANSFORMERS

• FLF / FLC SERIES

- Primary voltage : 230 V 50/60 Hz
- Secondary voltage : 12 V ou 24 V
- Maximum ambient temperature : + 40 °C
- Insulation class : B
- Insulation voltage : 4 kV
- Standards applicable : VDE 0570 - EN 61558 - UL 5085
- Degree of protection IP 00

• Prepared for protection class II

- Options : 00 Standard
 - 01 Addition of a thermal fuse (non-resettable)
 - 02 Addition of a resettable thermal protection system

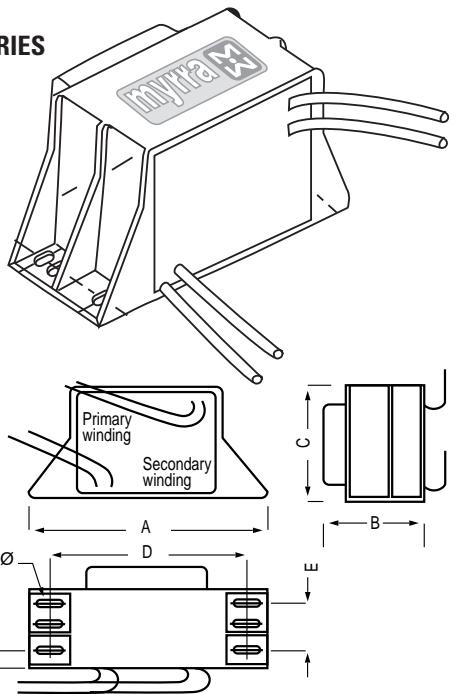
- On request : all primary and secondary voltages up to 500 V (consult us for details)

• FLF SERIES : connection by UL-approved flexible cables (600 V/105°C)

AWG 18 up to 6 A
AWG 16 up to 10 A
AWG 14 up to 20 A

standard length :
250 mm

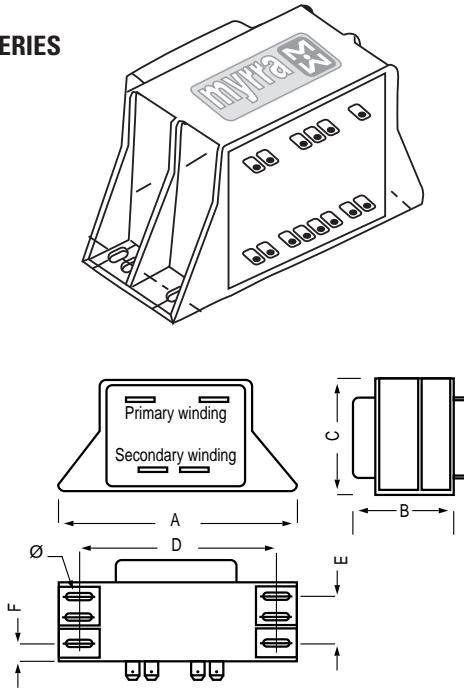
FLF SERIES



• FLC SERIES : connection by «faston» connectors

Rating	primary	secondary
3,2 VA-5 VA	2,8 x 0,8	4,8 x 0,8
10 VA-22 VA	4,8 x 0,8	4,8 x 0,8
30 VA-240 VA	6,3 x 0,8	6,3 x 0,8

FLC SERIES



Rating in VA	References				Drop %	Vs-c %	Effic. %	Fuse	Format	A	B	C	D	E	F	Ø													
	FLF		FLC																										
	12 V	24 V	12 V	24 V																									
3,2	30081	30094	30107	30120	30	28	61	32 mA	EI 38 x 13,6	61	33	35	51	-	19,5	3,5													
5	30082	30095	30108	30121	32	30	62	32 mA	EI 42 x 14,8	65	33	38	55	-	17,8	3,5													
10	30083	30096	30109	30122	25	25	69	63 mA	EI 48 x 16,8	75	39	43	62	12	9	3,5													
16	30084	30097	30110	30123	24	23	71,5	80 mA	EI 54 x 18,4	82,5	43	48,5	68	11	11	3,5													
22	30085	30098	30111	30124	19	19	76,5	125 mA	EI 60 x 21	88	48	53,5	75	13,5	12,2	4,8													
30	30086	30099	30112	30125	16	16	79,5	160 mA	EI 66 x 23	94	49,5	58,5	82	13	13,3	4,8													
45	30087	30100	30113	30126	11	11	83	250 mA	EI 66 x 34,7	94	61	58,5	82	37,5	7,4	4,8													
63	30088	30101	30114	30127	12	13	83,5	315 mA	EI 78 x 27,5	112,5	59	71,5	97,5	32,5	7,6	5,2													
100	30089	30102	30115	30128	13,5	15	84,5	500 mA	EI 84 x 29,5	120	64	75	102,5	32,5	10,2	5,5													
160*	30090	30103	30116	30129	12	13,5	86	800 mA	EI 84 x 43,5	120	78	75	102,5	45	10,8	5,5													
160	30091	30104	30117	30130	9,5	12	88,5	800 mA	EI 96 x 35,7	133	75	85	115	40	10,6	5,5													
185	30092	30105	30118	30131	7,8	9,8	90	1,0 A	EI 96 x 45,7	133	85	85	115	50	10,6	5,2													
240	30093	30106	30119	30132	6,4	8	91	1,25 A	EI 96 x 59,7	133	98,5	85	115	64	10,2	5,5													

* Transformer not complying with the standard (for this, it must be equipped with a thermal fuse system)

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