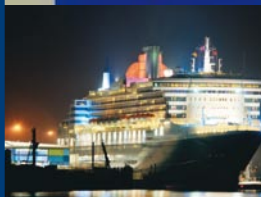


UniQ Reliable.
Proven.
Simply fact.



Cast Resin Transformers acc. to ECO Design



Partners in Power



SGB cast resin transformers acc. to ECO design Table of Types

(supersedes pages 21 - 23 of the brochure „Cast resin transformers“, item no. GTT-02-GB-2014)

To ensure that all energy consumption-related products, are designed in an environmentally friendly manner the European Commission decreed on 24 May 2014 the **REGULATION (EU) no. 548/2014 OF THE COMMISSION regarding implementation of the Directive 2009/125/EC of the European Parliament and the Council as regards low power transformers, medium power transformers and large power transformers** – designated colloquially as “ECO Design Directive”.

You can also download this standard from our website under:
www.sgb-smit.com/downloads/brochures

The regulation was first enacted as of 10 June 2014 – pursuant to Art. 8 (L152/5). Thus, implementation of level 1 regarding deliveries within the EU (valid as of 1 July 2015) is binding for transformer manufacturers. The decisive element for “putting into circulation” in this context is the so-called “transfer of ownership” – see Official Journal of the European Union L285/16, Art. 3(1).

Based on more than 30 years’ experience in the construction of cast resin transformers, the SGB-SMIT Group was able to adapt its cast resin transformers to the requirements of the Regulation without foregoing the proven quality features and the extraordinary reliability of its transformers.

The following tables contain the new technical data for a small range of the most common types of our cast resin transformers. The Tables of technical data listed in our brochure GTT-02-GB-2014 will no longer be applicable as of 1 July 2015.

Of course, we will be able to react to individual customers’ requirements at any time and even implement alternative power ratings in conformity with EU legal requirements.

For this reason, we are already commencing production of customized cast resin transformers of all power ratings as of 50 kVA up to 25 MVA in proven SGB quality based on EU legislation!

We will be pleased to advise you on specific applications and to support you in your project as early as from the planning stage.

Transformers acc. to ECO design ($U_m \leq 12$ kV)

High voltage (HV): $U_m \leq 12$ kV Low voltage (LV): $U_m \leq 1,1$ kV

Vector group: Dyn 5/11

Type	S	U_k	max. P_k 120°C	max. P_0	Loss class	max. L_{WA}	Length (ca.)	Width	Height (ca.)	Caster spacing	Total weight
	kVA	%	W	W		dB (A)	mm	mm	mm	mm	(ca.) kg
DTTH1N 400/10	400	4	5500	750	Bk A0	60	1210	820	1770	670	1350
DTTHY1N 400/10	400	6	5500	750	Bk A0	60	1370	820	1690	670	1600
DTTH1N 500/10	500	4	6400	900	Bk A0	63	1280	820	1870	670	1600
DTTHY1N 500/10	500	6	6400	900	Bk A0	63	1440	820	1790	670	1880
DTTH1N 630/10	630	4	7600	1100	Bk A0	62	1400	820	1910	670	1990
DTTHY1N 630/10	630	6	7600	1100	Bk A0	62	1600	820	1610	670	2050
DTTH1N 800/10	800	6	8000	1300	Ak A0	64	1620	820	1690	670	2190
DTTHX1N 800/10	800	4	8000	1300	Ak A0	64	1490	820	1930	670	2460
DTTH1N 1000/10	1000	6	9000	1550	Ak A0	65	1690	980	1790	820	2590
DTTHX1N 1000/10	1000	4	9000	1550	Ak A0	65	1580	980	2050	820	2920
DTTH1N 1250/10	1250	6	11000	1800	Ak A0	67	1690	980	2210	820	3330
DTTHX1N 1250/10	1250	4	11000	1800	Ak A0	67	1710	980	2300	820	4470
DTTH1N 1600/10	1600	6	13000	2200	Ak A0	68	1820	980	2170	820	3650
DTTH1N 2000/10	2000	6	16000	2600	Ak A0	70	1840	1270	2270	1070	4000
DTTH1N 2500/10	2500	6	19000	3100	Ak A0	71	2130	1270	2520	1070	6890
DTTH1N 3150/10	3150	6	22000	3800	Ak A0	74	2130	1270	2480	1070	6540

Transformers acc. to ECO design ($U_m \leq 24$ kV)

High voltage (HV): $U_m \leq 24$ kV Low voltage (LV): $U_m \leq 1,1$ kV

Vector group: Dyn 5/11

Type	S	U_k	max. P_k 120°C	max. P_0	Loss class	max. L_{WA}	Length (ca.)	Width	Height (ca.)	Caster spacing	Total weight
	kVA	%	W	W		dB (A)	mm	mm	mm	mm	(ca.) kg
DTTHX1N 400/20	400	4	5500	750	Bk A0	60	1360	820	1910	670	1820
DTTH1N 400/20	400	6	5500	750	Bk A0	60	1510	820	1700	670	1620
DTTHX1N 500/20	500	4	6400	900	Bk A0	61	1590	820	1740	670	1880
DTTH1N 500/20	500	6	6400	900	Bk A0	61	1600	820	1790	670	1910
DTTHX1N 630/20	630	4	7600	1100	Bk A0	62	1620	820	2160	670	2950
DTTH1N 630/20	630	6	7600	1100	Bk A0	62	1620	820	1760	670	1950
DTTH1N 800/20	800	6	8000	1300	Ak A0	64	1790	820	1900	670	2840
DTTHX1N 800/20	800	4	8000	1300	Ak A0	64	1540	820	2230	670	2870
DTTH1N 1000/20	1000	6	9000	1550	Ak A0	65	1720	980	2060	820	2840
DTTHX1N 1000/20	1000	4	9000	1550	Ak A0	65	1720	980	2060	820	3350
DTTH1N 1250/20	1250	6	11000	1800	Ak A0	67	1770	980	2240	820	3380
DTTHX1N 1250/20	1250	4	11000	1800	Ak A0	67	1890	980	2330	820	5080
DTTH1N 1600/20	1600	6	13000	2200	Ak A0	68	1920	980	2260	820	4200
DTTH1N 2000/20	2000	6	16000	2600	Ak A0	70	2000	1270	2440	1070	4900
DTTH1N 2500/20	2500	6	19000	3100	Ak A0	71	2100	1270	2480	1070	5950
DTTH1N 3150/20	3150	6	22000	3800	Ak A0	74	2250	1270	2570	1070	6800

The following applies regarding the Tables shown here:

- L_{WA} acc. to DIN EN 50541-1
- Design of transformers for operation in rooms: IP00
- Dimensions and weights may differ depending on design
- Specified sound levels apply for AN operation (at no load).
- Transformer design acc. to IEC 60076-11

We will be pleased to offer you further models according to your specific application requirements.

Partners in Power

STARKSTROM-GERÄTEBAU GMBH

Ohmstraße 10 • D-93055 Regensburg

Phone: +49 / 941 / 7841-0

Fax: +49 / 941 / 7841-439

E-Mail: sgb@sgb-trafo.de

Member of the **SGB-SMIT Group**:

STARKSTROM-GERÄTEBAU GMBH

Regensburg | Germany | Phone: +49 / 941 / 7841-0

SÄCHSISCH-BAYERISCHE STARKSTROM-GERÄTEBAU GMBH

Neumark | Germany | Phone: +49 / 37600 / 83-0

ROYAL SMIT TRANSFORMERS B.V.

Nijmegen | Netherlands | Phone: +31 / 24 / 3568-911

SMIT TRANSFORMER SERVICE

Nijmegen | Netherlands | Phone: +31 / 24 / 3568-626

RETRASIB S.A.

Sibiu | Romania | Phone: +40 / 269 / 253 269

SMIT TRANSFORMER SALES INC.

Summerville, SC | USA | Phone: +1 / 843 / 871-3434

SGB-USA INC.

Louisville, OH | USA | Phone: +1 / 330 / 871-24 44

OTC SERVICES INC.

Louisville, OH | USA | Phone: +1 / 330 / 871-24 44

AM SGB SDN. BHD.

Nilai | Malaysia | Phone: +60 / 6 / 799 4014

SGB CAST RESIN BEIJING OFFICE

Beijing | P.R. China | Phone: +8610 / 8448 5071

www.sgb-smit.com



Partners in Power

