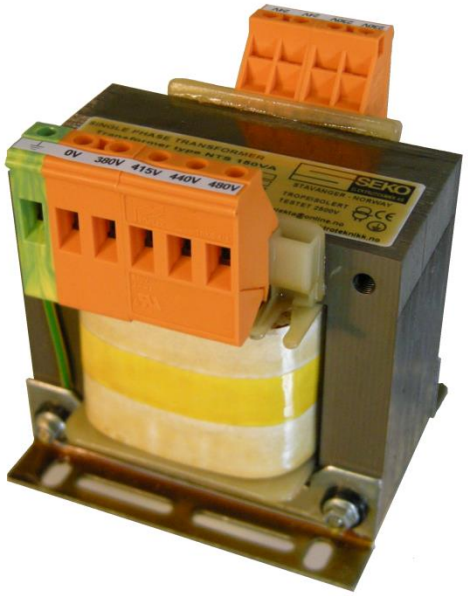


Datasheet

Transformers type NTS/GTS from SEKO Elektroteknikk AS

NTS transformers from SEKO have small physical dimensions and low weight relative to power. This is possible due to high quality core material and assembly with craftsmanship at a high level of industrial quality resulting in low losses.

- Power from 40 VA to 1200 VA
- GTS from 1500 VA to 4000 VA
- Standard voltages in stock.
- Customer specified transformers with short delivery times.

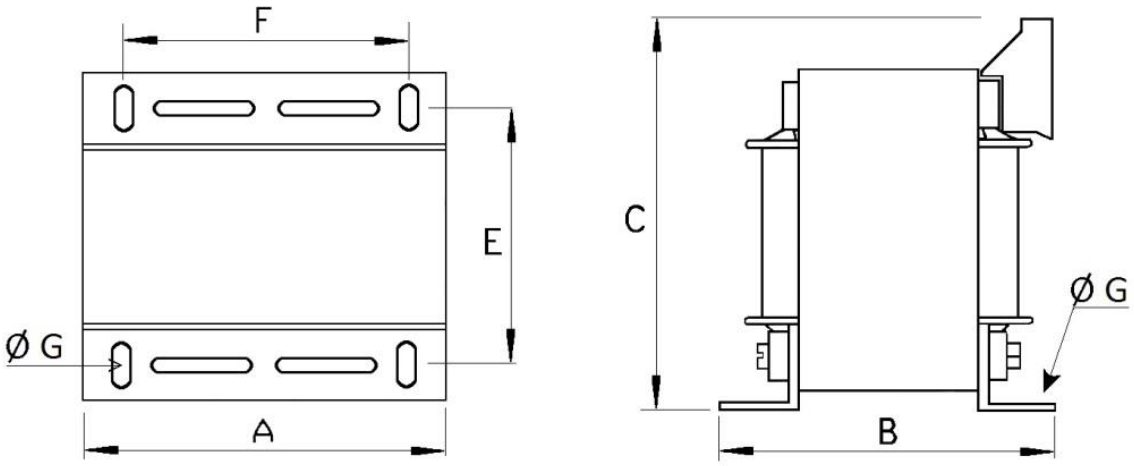
Spesifikasjoner:

- Built according to norm EN 61558-2-4
- Built according to DNV rules
- Core material NTS: El M165-35S, GTS: EI M330-50A
- Insulation class B, 130 °C
- Insulation test: 2500 V for 1 min
- Max voltage 1000 V AC
- Ambient temperature: max 45 °C (t_a)
- Impregnated with varnish, heat hardened

SEKO
Elektroteknikk AS

Sverdrups gate 28, N-4007 Stavanger, Norway
T: +47 51 53 50 52 selekta@online.no www.seko-elektroteknikk.no

Measurements NTS transformers, mm



Type NTS power in VA	A	B	C	E	F	Ø G	Weight kg
40	66	54	80	40	50	4x9	0,7
60	66	65	80	54	50	4x9	1,0
100	78	68	89	56	56	5x9	1,5
150	84	74	93	62	64	5x9	2,0
220	96	86	104	71	84	6x11	2,8
280	96	100	104	87	84	6x11	3,5
400	120	85	120	70	90	6x11	4,3
500	120	100	120	83	90	6x11	5,2
700	120	119	120	104	90	6x11	6,9
1000	150	123	147	102	122	7x13	10,0
1200	150	147	147	130	122	7x13	13,5

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NTS transformers

Copper and iron losses and calculated short circuit currents in our NTS series

All data in the table is given for **380 V / 50 Hz**, when calculating short circuit current for other voltages than 380 V / 50 Hz, please use the formula under.

Note: At 60 Hz the induction/inrush is reduced by 20 % and iron loss/no load loss by 10 %.

$$I_k\,[A] = \frac{Primary\ current\ [A] \cdot 100}{E_z}$$

Type NTS Power in VA	Iron loss P_{Fe} in W	Copper loss P_{Cu} in W at Δt	Voltage drop e_z % at Δt	Short circuit current $I_{K\ prim}$ A at Δt	Inrush times nom I_p	Temperature rise Δt
40	1,4	5,5	14,2	0,8	85	49
60	2,2	6,0	10,4	1,5	94	50
100	3,1	7,1	7,4	3,4	86	48
150	3,8	11,7	8,1	4,9	74	62
220	5,4	11,7	5,8	9,6	77	55
280	6,8	11,8	4,7	15,0	74	52
400	7,7	20,9	5,9	18,0	62	69
500	9,6	20,7	5,0	26,1	57	66
700	13,0	24,1	3,9	46,4	61	70
1000	18,2	27,4	3,5	74,2	58	65
1200	18,7	29,7	3,1	98,8	50	62

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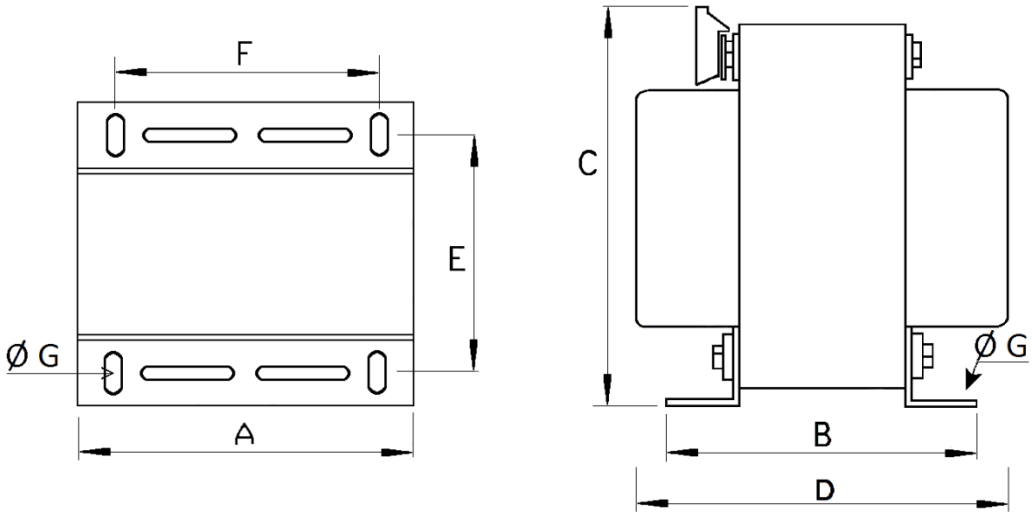
GTS transformers



Type GTS power in VA	A	B	C	D	E	F	Ø G	Weight kg
1500	175	168	153	175	137	135	7x13	20
2000	180	140	212	191	110	140	10x17	21
2500	180	155	212	182	125	140	10x17	24
3000	210	161	245	198	129	160	12x17	35
4000	210	180	245	217	148	160	12x17	40

Type GTS power in VA	Iron loss Watt	Copper loss Watt	Voltage drop e_z %, at 95 °C	Inrush, times nom I_p
1500	35	25	2,5	14x
2000	37	45	2,8	30x
2500	40	59	3,0	30x
3000	60	55	3,4	35x
4000	80	60	2,5	36x

As for the NTS-transformers, all data are at 380V/50Hz.

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