

# THREE PHASE TRANSFORMER

TRANSFORMER

Three phase transformers are used on three phase energy systems either as security - isolation type transformer or step up -down transformer, in some cases step-up and step down transformers can be produces as auto transformer for reducing the price.

- Nominal Power
- Isolation type or auto type
- Input-output voltage and current values according to duty factor
- Input - output connection types ( delta - star etc )
- Galvanic isolation
- Input - Output voltage steps
- Input-output connection materials
- Isolation class
- Metal enclosure and ventilation
- Mounting type ( horizontal - vertical ) ... etc

GUVEN-IS determines these technical specifications by communicating directly to the customer before designing process in order to avoid any problem. When every detail is clear a sample transformer is produced and tested by GUVEN-IS and submitted to the customer for the final approving before the ordering.



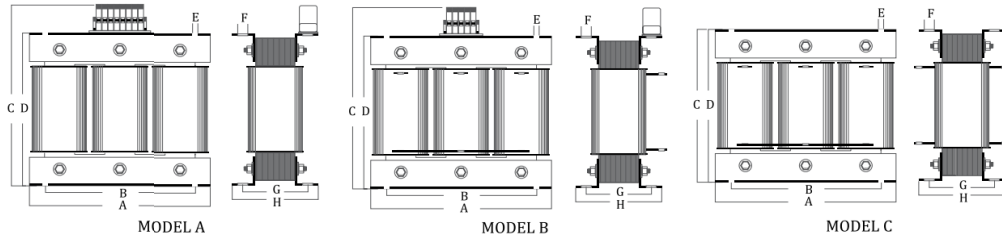
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## GENERAL THECNICAL SPECIFICATIONS

STANDARDS	EN 61558-1; EN 61558 2-4 and EN 61558 2-13 CE certified
DESIGN	Security isolation type or auto type three phase transformer
NOMINAL POWER	Three phase 100 VA ... 1250 kVA
NOMINAL INPUT VOLTAGE	< 1000 V AC
NOMINAL OUTPUT VOLTAGE	< 1000 V AC
NOMINAL FREQUENCY	50 / 60 Hz
MAGNETIC CIRCUIT	1,8 W/kg power loss 0,50 mm lamination (0,35mm is optional)
WINDINGS	Electrolytic copper or aluminum
CONNECTIONS	Transformer terminal blocks, rail terminals, copper cable lugs, copper bar
PROTECTION ( electricity, optional)	Thermistor 90 °C 1 NK contact
PROTECTION CLASS	IP 00 ( It may also within metal enclosure according to desired IP class )
ISOLATION CLASS	1. class, upon request; F 155 °C veya H 180 °C
OPERATING TEMPERATURE	Ta 55 °C / F or Ta 60 °C / H
IMPREGNATION	According to insulation class, protection against moisture, lesser sound level
COOLING	Natural or air forced ventilation upon request
HUMIDITY	%90 non-condensing ( DIN 40040 )
OPERATING ALTITUDE	0 - 2000 m
AMBIENT TEMPERATURE	- 20 °C ..... + 55 °C (Ta 60 °C / H)
STORING TEMPERATURE	- 20 °C ..... + 70 °C
SPECIAL DESIGN	Special design is possible according to voltage, current and power values, with or without metal enclosure and ventilation in desired IP standard.

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PRODUCT	CODE	POWER(kVA)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	WEIGHT(kg)
GVN TTR 0,18		0,18	155	125	145	127	7	12	48	70	3,9
GVN TTR 0,20		0,20	155	125	145	127	7	12	52	74	4,5
GVN TTR 0,30		0,30	155	125	145	127	7	12	62	84	5,9
GVN TTR 0,35		0,35	180	150	205	153	7	12	52	74	7
GVN TTR 0,40		0,40	180	150	205	153	7	12	57	79	8
GVN TTR 0,50		0,50	180	150	205	153	7	12	62	84	9,1
GVN TTR 0,55		0,55	180	150	205	153	7	12	67	89	10,3
GVN TTR 0,60		0,60	180	150	205	153	7	12	72	94	11
GVN TTR 0,65		0,65	180	150	205	153	7	12	77	99	12
GVN TTR 0,70		0,70	180	150	205	153	7	12	82	104	13,2
GVN TTR 0,90		0,90	180	150	205	153	7	12	97	119	16,2
GVN TTR 1,10		1,10	240	200	260	204	9	17	70	100	16,5
GVN TTR 1,50		1,50	240	200	260	204	9	17	80	110	19,6
GVN TTR 1,75		1,75	240	200	260	204	9	17	90	120	23
GVN TTR 2,10		2,10	240	200	260	204	9	17	105	135	28
GVN TTR 2,75		2,75	300	250	310	255	9	17	91	125	31
GVN TTR 3,25		3,25	300	250	310	255	9	17	101	136	35,6
GVN TTR 3,50		3,50	300	250	310	255	9	17	111	146	40,2
GVN TTR 4		4	300	250	310	255	9	17	121	156	45
GVN TTR 4,50		4,50	300	250	310	255	9	17	131	166	49,6
GVN TTR 5		5	300	250	310	255	9	17	141	176	54,3
GVN TTR 5,75		5,75	360	300	365	306	13	20	111	156	52,5
GVN TTR 6,75		6,75	360	300	365	306	13	20	121	166	61
GVN TTR 7,50		7,50	360	300	365	306	13	20	131	176	69
GVN TTR 8,50		8,50	360	300	365	306	13	20	141	186	76
GVN TTR 9,50		9,50	360	300	365	306	13	20	151	196	83
GVN TTR 10		10	360	300	365	306	13	20	161	206	88
GVN TTR 10,5		10,5	420	350	425	358	13	20	126	176	88,5
GVN TTR 12		12	420	350	425	358	13	20	136	186	93,5
GVN TTR 13,5		13,5	420	350	425	358	13	20	146	196	102
GVN TTR 15		15	420	350	425	358	13	20	156	206	112,3
GVN TTR 18,5		18,5	420	350	425	358	13	20	176	226	134
GVN TTR 20		20	420	350	425	358	13	20	186	236	146
GVN TTR 18		18	480	400	480	410	13	20	148	208	140
GVN TTR 20		20	480	400	480	410	13	20	158	218	150
GVN TTR 22,5		22,5	480	400	480	410	13	20	168	228	158
GVN TTR 25		25	480	400	480	410	13	20	178	238	169
GVN TTR 27,5		27,5	480	400	480	410	13	20	188	248	180
GVN TTR 30		30	480	400	480	410	13	20	198	258	191
GVN TTR 32,5		32,5	480	400	480	410	13	20	208	268	202
GVN TTR 35		35	480	400	480	410	13	20	218	278	225
GVN TTR 37,5		37,5	620	500	600	610	13	13	210	270	250
GVN TTR 40		40	620	500	600	610	13	13	225	285	260
GVN TTR 45		45	620	500	600	610	13	13	230	290	275
GVN TTR 50		50	620	500	600	610	13	13	240	300	290
GVN TTR 60		60	620	500	600	610	13	13	250	310	310
GVN TTR 70		70	620	500	600	610	13	13	270	330	345
GVN TTR 100		100	800	600	700	700	15	15	260	340	420
GVN TTR 150		150	800	600	700	700	15	15	290	370	600
GVN TTR 200		200	800	600	700	700	15	15	320	400	770
GVN TTR 300		300	1000	800	850	850	17	17	340	400	1000
GVN TTR 400		400	1000	800	850	850	17	17	370	430	1300
GVN TTR 500		500	1000	800	850	850	17	17	400	470	1600
GVN TTR 750		750	1300	1000	1050	1050	22	22	390	490	1900
GVN TTR 1000		1000	1300	1000	1050	1050	22	22	440	540	2200
GVN TTR 1250		1250	1300	1000	1050	1050	22	22	490	590	2750

\*\* DIMENSIONS OF TRANSFORMERS MANUFACTURED UPON REQUEST MAY BE DIFFERENT THAN WRITTEN IN THIS TABLE.