

SINGLE PHASE TRANSFORMER

Control Transformer

Single or double phase control transformers are commonly used in machine control panels, automation panels etc either as security step up or step 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
- Galvanic isolation
- Input - Output voltage steps
- Input-output connection materials
- Isolation class
- 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.

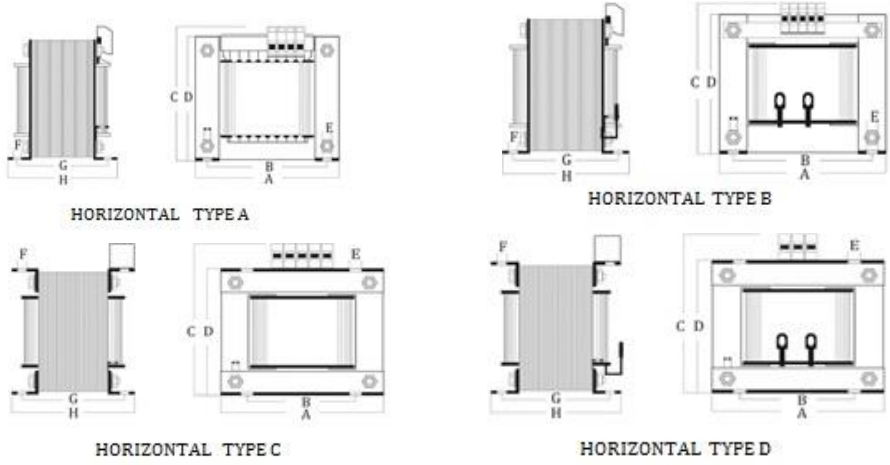
GENERAL TECHNICAL SPECIFICATIONS

STANDARDS	EN 61558-1; EN 61558 2-2, EN 61558 - 2-13, CE certified
DESIGN	Security isolation or auto type single phase transformer
NOMINAL POWER	25 VA ... 10 kVA
NOMINAL INPUT VOLTAGE	< 1000 V AC
NOMINAL OUTPUT VOLTAGE	< 500 V AC / 708 V DC
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
ISOLATION CLASS	1. class, upon request; B 120 °C, F 155 °C or H 180 °C
OPERATING TEMPERATURE	Ta 40 °C / B, Ta 55 °C / F or Ta 60 °C / H
IMPREGNATION	According to insulation class, protection against moisture, lesser sound level
COOLING	Natural
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,



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CONTROL TRANSFORMERS (E-I LAMINATION)

HORIZONTAL MOUNTING TYPE DIMENSIONS

PRODUCT CODE	POWER (VA)	MODEL	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	WEIGHT (kg)
GVN KP TR 25	25	A	60	50	69	51	5	9	52	64	0,77
GVN KP TR 35	35	A-B	76	65	82	65	5	9	42	58	0,98
GVN KP TR 50	50	A	84	71	88	72	4,5	10	48	64	1,37
GVN KP TR 75	75	A	84	71	88	72	4,5	10	58	74	1,9
GVN KP TR 100	100	A	84	71	88	72	4,5	10	68	84	2,25
GVN KP TR 160	160	A	108	78	112	92	5	7,5	67	83	3
GVN KP TR 200	200	A-B-C	120	85	122	102	7	10	68	82	3,65
GVN KP TR 250	250	A-B-C	120	85	122	102	7	10	78	92	4,5
GVN KP TR 300	300	B-C-D	120	85	122	102	7	10	98	112	6
GVN KP TR 400	400	B-C-D	150	104	147	127	9	13	80	100	6,6
GVN KP TR 500	500	B-C-D	150	104	147	127	9	13	85	105	7,35
GVN KP TR 600	600	C-D	150	104	147	127	9	13	100	120	9,2
GVN KP TR 750	750	B-D	171	142	165	145	9	13	88	118	10,4
GVN KP TR 1000	1000	B-D	171	142	165	145	9	13	108	138	13,5
GVN KP TR 1500	1500	D	192	140	183	163	9	16	118	144	17
GVN KP TR 1750	1750	D	192	140	183	163	9	16	123	150	18,2
GVN KP TR 2000	2000	D	192	140	183	163	9	16	143	170	22,3
GVN KP TR 2500	2500	D	192	140	183	163	9	16	163	190	26,1
GVN KP TR 3000	3000	D	192	140	183	163	9	16	183	210	30,8
GVN KP TR 4000	4000	D	250	180	231	211	11	22	148	178	37,2
GVN KP TR 5000	5000	D	250	180	231	211	11	22	168	198	44,5
GVN KP TR 6000	6000	D	250	180	231	211	11	22	208	238	58,5
GVN KP TR 8000	8000	D	300	193	273	253	13	20	164	210	60
GVN KP TR 10000	10000	D	300	193	273	253	13	20	184	230	71

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