



Three-phase Isolating transformers
K-Factor K-4 K-13 K-20

Series TTKF

Power from 15kVA to 500kVA
Input 400V delta
Output 400V star + N

Technical features

- Three phases insulating transformers compliant to IEC 61558-2-4 Cei 96-2 UL1561 NEMA TP-1 Standards
- Input voltage on request, max 600V, Delta connection
- Output voltage on request, max 600V star + n
- Group Dyn11 - on request, at secondary winding, Zig Zag connection
- Copper screen between Primary and Secondary winding
- Frequency 50 or 60Hz
- Ambient Temperature 40°C
- Insulating system 155°C Class F, 100°C temperature rise.
- Protection IP00
- Input and output connection with terminal block or copper bars.
- Copper wire enameled class H200 or C220
- Low loss core, design to manage DC flux caused by triplen harmonics
- Transformer design that take into account the increase of "stray loss"
- Vacuum Impregnation
- IP20 enclosure RAL7035 with vibration dampering pads
- Additional screen
- Ten year warranty
- Different temperature rise or insulating system

Dimensions and drillings

K-FACTOR TRANSFORMERS SERIES K4

Reference number	Rated Thermal power (VA)	Current A	Efficiency	Dimensions			Drillings		Weight (Kg)	Enclosure IP 20	Fig.
				L	P	H	A	B			
TTKF 4015	15000	21,7	97,1	420	250	360	375	186	125	CSV 1304	3
TTKF 4020	20000	28,9	97,3	420	270	360	375	206	150	CSV 1304	3
TTKF 4025	25000	36,1	97,5	480	280	410	440	206	185	CSV 1304	3
TTKF 4030	30000	43,3	97,6	480	290	410	440	216	203	CSV 1304	3
TTKF 4040	40000	57,7	97,8	540	300	460	480	250	246	CSV 1305	3
TTKF 4045	45000	65,0	97,8	540	300	460	480	250	261	CSV 1305	4
TTKF 4050	50000	72,2	97,9	540	310	550	480	260	289	CSV 1305	4
TTKF 4060	60000	86,6	98,1	540	340	550	480	290	341	CSV 1305	4
TTKF 4075	75000	108,3	98,1	540	340	550	480	290	368	CSV 1305	4
TTKF 4080	80000	115,5	98,2	540	360	550	480	310	407	CSV 1305	4
TTKF 4100	100000	144,3	98,3	600	350	610	540	300	465	CSV 1306	4
TTKF 4112	112500	162,4	98,3	600	370	610	540	320	502	CSV 1306	4
TTKF 4125	125000	180,4	98,3	720	370	730	660	270	578	CSV 1306	4
TTKF 4150	150000	216,5	98,4	720	390	730	660	290	657	CSV 1306	4
TTKF 4175	175000	252,6	98,5	720	420	730	660	320	755	CSV 1306	4
TTKF 4200	200000	288,7	98,6	720	440	730	660	340	828	CSV 1306	4
TTKF 4225	225000	324,8	98,5	840	430	850	700	300	869	CSV 1307	4
TTKF 4250	250000	360,9	98,7	840	450	850	700	320	1002	CSV 1307	4
TTKF 4300	300000	433,0	98,7	900	460	910	750	320	1107	CSV 1307	4
TTKF 4400	400000	577,4	98,9	900	520	910	750	380	1444	CSV 1307	4
TTKF 4500	500000	721,7	99,0	1080	570	1090	900	400	1951	Special	4

K-FACTOR TRANSFORMERS SERIES K13

Reference number	Rated Thermal power (VA)	Current A	Efficiency	Dimensions			Drillings		Weight (Kg)	Enclosure IP 20	Fig.
				L	P	H	A	B			
TTKF 3015	15000	21,7	97,1	420	270	360	375	206	147	CSV 1304	3
TTKF 3020	20000	28,9	97,3	420	290	360	375	226	172	CSV 1304	3
TTKF 3025	25000	36,1	97,5	480	300	410	440	226	212	CSV 1304	3
TTKF 3030	30000	43,3	97,6	480	320	410	440	246	241	CSV 1304	3
TTKF 3040	40000	57,7	97,8	540	330	460	480	280	295	CSV 1305	3
TTKF 3045	45000	65,0	97,8	540	340	460	480	290	320	CSV 1305	4
TTKF 3050	50000	72,2	97,9	540	330	550	480	280	353	CSV 1305	4
TTKF 3060	60000	86,6	98,1	600	330	610	540	280	394	CSV 1306	4
TTKF 3075	75000	108,3	98,1	600	380	610	540	330	505	CSV 1306	4
TTKF 3080	80000	115,5	98,2	600	390	610	540	340	532	CSV 1306	4
TTKF 3100	100000	144,3	98,3	720	370	730	660	270	583	CSV 1306	4
TTKF 3112	112500	162,4	98,3	720	390	730	660	290	637	CSV 1306	4
TTKF 3125	125000	180,4	98,3	720	420	730	660	320	718	CSV 1306	4
TTKF 3150	150000	216,5	98,4	840	430	850	700	300	876	CSV 1307	4
TTKF 3175	175000	252,6	98,5	840	450	850	700	320	973	CSV 1307	4
TTKF 3200	200000	288,7	98,6	900	460	910	750	320	1073	CSV 1307	4
TTKF 3225	225000	324,8	98,5	900	490	910	750	350	1249	CSV 1307	4
TTKF 3250	250000	360,9	98,7	960	500	970	800	340	1346	Special	4
TTKF 3300	300000	433,0	98,7	1080	540	1090	900	370	1696	Special	4
TTKF 3400	400000	577,4	98,9	1080	580	1090	900	410	2074	Special	4
TTKF 3500	500000	721,7	99,0	1200	600	1210	1000	390	2392	Speciale	4

K-FACTOR TRANSFORMERS SERIES K20

Reference number	Rated Thermal power (VA)	Current A	Efficiency	Dimensions			Drillings		Weight (Kg)	Enclosure IP 20	Fig.
				L	P	H	A	B			
TTKF 2015	15000	21,7	97,1	420	270	360	375	206	147	CSV 1304	3
TTKF 2020	20000	28,9	97,3	420	290	360	375	226	172	CSV 1304	3
TTKF 2025	25000	36,1	97,5	480	300	410	440	226	212	CSV 1304	3
TTKF 2030	30000	43,3	97,6	480	320	410	440	246	241	CSV 1304	3
TTKF 2040	40000	57,7	97,8	540	330	460	480	280	295	CSV 1305	3
TTKF 2045	45000	65,0	97,8	540	340	460	480	290	320	CSV 1305	4
TTKF 2050	50000	72,2	97,9	540	330	550	480	280	353	CSV 1305	4
TTKF 2060	60000	86,6	98,1	600	330	610	540	280	394	CSV 1306	4
TTKF 2075	75000	108,3	98,1	600	380	610	540	330	505	CSV 1306	4
TTKF 2080	80000	115,5	98,2	600	390	610	540	340	532	CSV 1306	4
TTKF 2100	100000	144,3	98,3	720	370	730	660	270	583	CSV 1306	4
TTKF 2112	112500	162,4	98,3	720	390	730	660	290	637	CSV 1306	4
TTKF 2125	125000	180,4	98,3	720	420	730	660	320	718	CSV 1306	4
TTKF 2150	150000	216,5	98,4	840	430	850	700	300	876	CSV 1307	4
TTKF 2175	175000	252,6	98,5	840	450	850	700	320	973	CSV 1307	4
TTKF 2200	200000	288,7	98,6	900	460	910	750	320	1073	CSV 1307	4
TTKF 2225	225000	324,8	98,5	900	490	910	750	350	1249	CSV 1307	4
TTKF 2250	250000	360,9	98,7	960	500	970	800	340	1346	Special	4
TTKF 2300	300000	433,0	98,7	1080	540	1090	900	370	1696	Special	4
TTKF 2400	400000	577,4	98,9	1080	580	1090	900	410	2074	Special	4
TTKF 2500	500000	721,7	99,0	1200	600	1210	1000	390	2392	Special	4

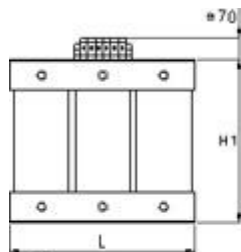


Fig. 3

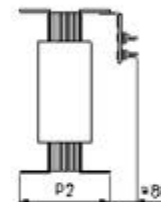
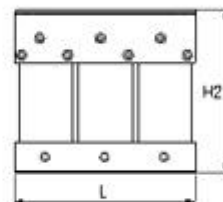


Fig. 4

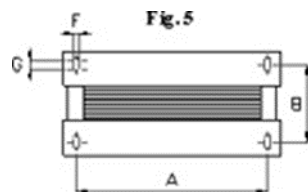


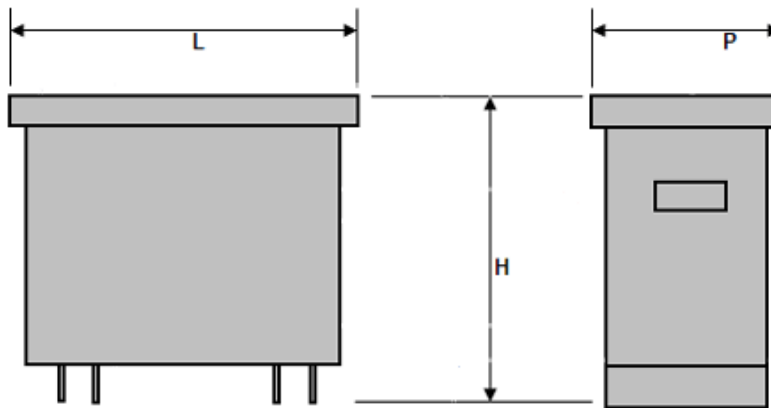
Fig. 5

The data indicated could change without notice

METAL ENCLOSURES FOR TRANSFORMERS

Protection rate IP23

Mod.	Type	Single-phase Col.	Three-phase Col.	Single-phase kVA	Three-phase kVA	Dimensions			Weight (Kg)
						L	P	H	
CSZ/1301	White galvanized	40/50	40/50	4	4	400	300	420	10
CSZ/1302	White galvanized	60/70	60/70	12	15	530	400	550	14
CSV/1304	Painted RAL 7035	70/80	70/80	20	30	590	470	600	20
CSV/1305	Painted RAL 7035	90/100	90/100	40	60	750	500	800	24
CSV/1306	Painted RAL 7035	100/120	100/120	80	120	900	550	960	28
CSV/1307	Painted RAL 7035		120/150		180	1250	870	1100	36
CSV/1308	Painted RAL 7035		150/170		300	1500	1000	1450	48
CSV/1309	Painted RAL 7035		170/200		500	1800	1400	1700	60



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