

TTR 4x.xx

Indoor Bushing Current Transformer

Highest voltage for equipment	[kV]	12
Power frequency test voltage, 1 min.	[kV]	28
Lighting impulse test voltage	[kV]	75
Rated continuous thermal current	[A]	100 - 2500
Rated short-time thermal current	[kA]	60 - 100
Burdens, classes	[VA/cl]	5- 30 / 0.2 - 1/5P;10P
Reconnectible		Secondary reconnectible for 1 core type

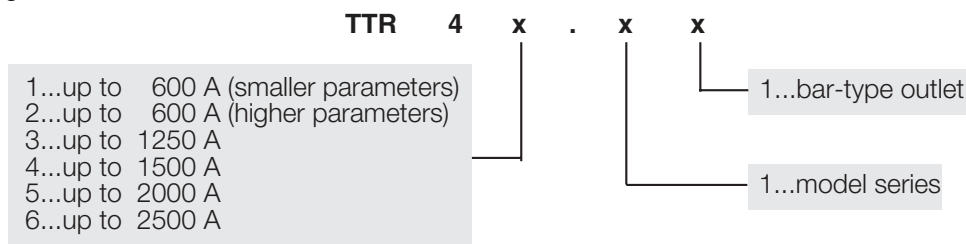


Description

The TTR 4x.xx current transformers are cast in epoxy resin and designed for insulation voltages up to 12 kV. The TTR 4x.xx transformers are configured as bar-type, with only one or more ratios (secondary side to be changeover) and perform the function of a bushing when installed in the switchboard. The transformer is designed with either 1 or 2 secondary windings and, depending on the combination of parameters (accuracy class, burden, short-circuit current, overcurrent factor...) with the possibility to choose from various sizes of the transformer. The secondary windings are used for measurement or protection purposes. One terminal of each secondary winding in use and one terminal of short-circuited and not used winding have to be earthed during the transformer operation. The secondary windings are lead out into a cast-type secondary terminal board, covered with plastic cover which may be sealed. The transformer can be mounted in any position. The transformer position is fixed by using four screws.

Rated primary voltage ...3.6 kV; 7.2 kV; 12 kV
 Rated primary currents
 100;150;200;300;400;500;600;750;1000;1250;1500;
 2000;2500 A
 Primary currents different from the above can also be agreed upon with the customer.
 Rated secondary currents...5 A; 1 A (possibility to combine different values in one transformer)
 Rated frequency ... 50 Hz; 60 Hz
 The transformers are manufactured conformably to the following requirements and standards: IEC, VDE, ANSI, BS,GOST and ČSN

Basic marking

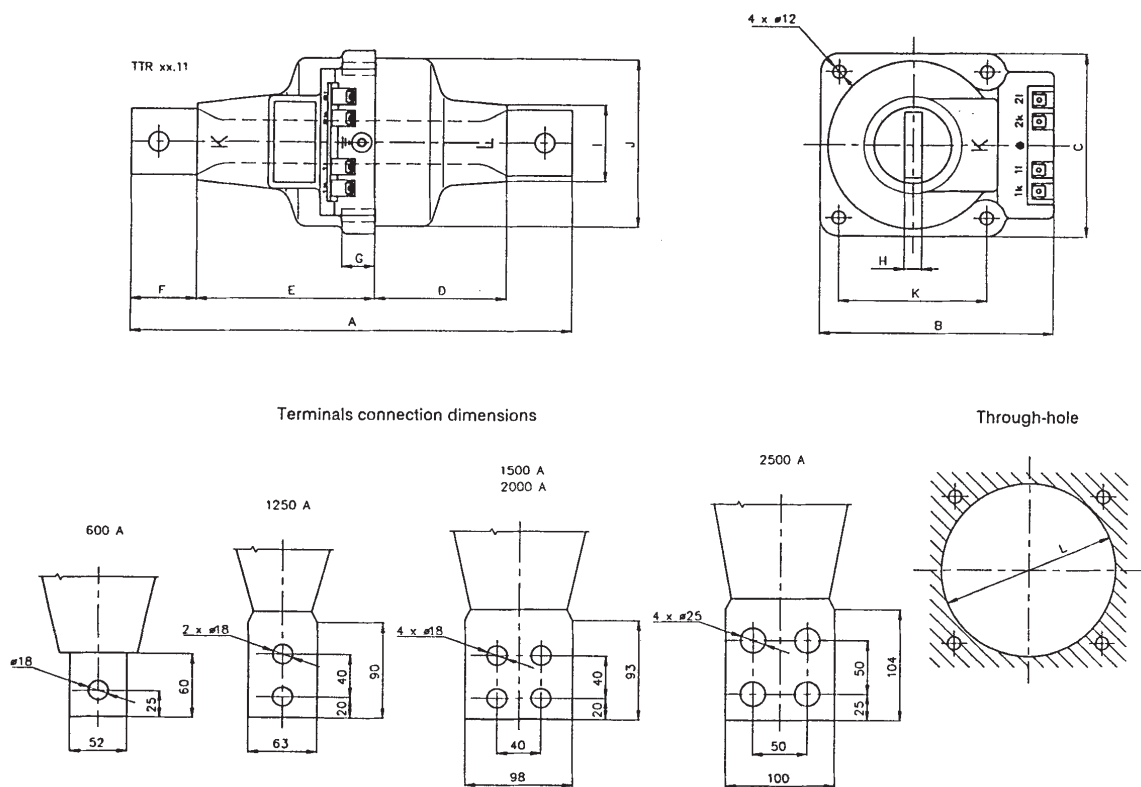


Insulation levels of TTR 4x.xx transformer

3.6 / 21 / 45 kV 7.2 / 27 / 60 kV
 3.6 / 10 / 40 kV 7.2 / 20 / 60 kV

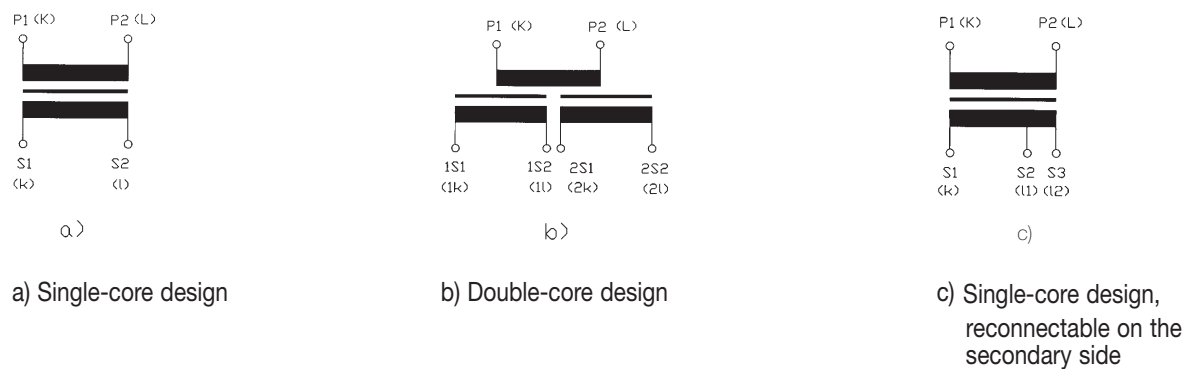
12 / 28 / 75 kV

Dimensions



Insulation voltage [kV]	Type	Rated current [A]	Dimensions													Weight [kg]
			A	B	C	D	E	F	G	H	H _∞	øI	øJ	K	øL	
12	TTR 41.11	to 600	402	214	170	120	162	60	30	16	6	71	156	136	160	10.0
	TTR 42.11	to 300	500	214	170	220	162	60	30	16	6	71	156	136	160	17.0
	TTR 43.11	750-1250	472	214	170	120	162	95	30	20	10	71	156	136	160	11.0
	TTR 44.11	1500	482	252	208	120	162	100	30	16	20	110	192	174	196	15.0
	TTR 45.11	2000	482	252	208	120	162	100	30	20	20	110	192	174	196	21.0
	TTR 46.11	2500	502	252	208	120	162	110	30	20	20	110	192	174	196	24.0

Marking of current transformer outlets



Standartized transformers

Type	Ratio [A]	I _{thn} [kA]	Burden [VA]	accuracy	FS/ALF
41.11	100//5	60	5	1	5
41.11	100//5	60	15	3	5
41.11	100//5	60	10	10P	5
41.11	125//5	60	5	1	5
41.11	125//5	60	15	3	5
41.11	125//5	60	5	10P	10
41.11	125//5	60	10	10P	5
41.11	150//5	60	10	0,5	5
41.11	150//5	60	15	3	5
41.11	150//5	60	5	10P	10
41.11	150//5	60	10	10P	5
41.11	200//5	60	15	0,5	5
41.11	200//5	60	30	3	5
41.11	200//5	60	5	10P	15
41.11	200//5	60	15	10P	5
41.11	200//5/5	60	10/10	3/10P	5/5
41.11	200//5/5	60	5/10	0.5/10P	5/5
41.11	250//5	60	15	0.5	5
41.11	250//5	60	45	3	5
41.11	250//5	60	10	10P	10
41.11	250//5	60	15	10P	5
41.11	250//5/5	60	5/5	0.5/10P	5/10
41.11	250//5/5	60	5/10	0.5/10P	5/5
41.11	250//5/5	60	10/5	3/10P	5/10
41.11	250//5/5	60	10/10	3/10P	5/5
41.11	300//5	60	30	0.5	5
41.11	300//5	60	60	3	5
41.11	300//5	60	5	5P	25
41.11	300//5	60	15	5P	10
41.11	300//5/5	60	5/5	0.5/10P	5/10
41.11	300//5/5	60	5/10	0.5/10P	5/5
41.11	300//5/5	60	10/5	3/10P	5/10
41.11	300//5/5	60	10/10	3/10P	5/5
41.11	400//5	60	30	0.5	5
41.11	400//5	60	60	1	5
41.11	400//5	60	15	5P	10
41.11	400//5	60	30	5P	5
41.11	400//5/5	60	10/5	0.5/10P	5/15
41.11	400//5/5	60	10/15	0.5/10P	5/5
41.11	400//5/5	60	15/5	3/10P	5/15
41.11	400//5/5	60	15/15	3/10P	5/5
41.11	500//5	60	30	0.5	5
41.11	500//5	60	90	1	5
41.11	500//5	60	15	5P	15
41.11	500//5	60	30	5P	5
41.11	500//5/5	60	15/5	0.5/5P	5/20
41.11	500//5/5	60	15/10	0.5/5P	5/10
41.11	500//5/5	60	15/15	0.5/5P	5/5
41.11	500//5/5	60	15/5	3/5P	10/20
41.11	500//5/5	60	15/10	3/5P	10/10
41.11	500//5/5	60	15/15	3/5P	10/5
41.11	600//5	60	30	0.5	5
41.11	600//5	60	120	1	5
41.11	600//5	60	15	5P	15
41.11	600//5	60	30	5P	10
41.11	600//5/5	60	15/5	0.5/5P	10/20
41.11	600//5/5	60	15/10	0.5/5P	10/10
41.11	600//5/5	60	15/30	0.5/5P	10/5
41.11	600//5/5	60	30/5	5/5P	5/20
41.11	600//5/5	60	30/10	5/5P	5/10
41.11	600//5/5	60	30/30	5/5P	5/5

Type	Ratio [A]	I _{thn} [kA]	Burden [VA]	accuracy	FS/ALF
42.11	100//5	60	10	10P	10
42.11	100//5	60	15	10P	5
42.11	100//5/5	60	5/5	1/10P	5/10
42.11	100//5/5	60	5/10	1/10P	5/5
42.11	100//5/5	60	15/5	3/10P	5/10
42.11	100//5/5	60	15/10	3/10P	5/5
42.11	125//5	60	10	10P	10
42.11	125//5	60	15	10P	5
42.11	125//5/5	60	5/5	1/10P	5/10
42.11	125//5/5	60	5/10	1/10P	5/5
42.11	125//5/5	60	15/5	3/10P	10/10
42.11	125//5/5	60	15/10	3/10P	10/5
42.11	150//5	60	15	10P	10
42.11	150//5	60	30	10P	5
42.11	150//5/5	60	10/5	0.5/10P	5/15
42.11	150//5/5	60	10/15	0.5/10P	5/5
42.11	150//5/5	60	15/5	3/10P	5/15
42.11	150//5/5	60	15/15	3/10P	5/5
42.11	200//5	60	15	10P	15
42.11	200//5	60	30	10P	5
42.11	200//5/5	60	15/10	0.5/10P	5/10
42.11	200//5/5	60	15/15	0.5/10P	5/5
42.11	200//5/5	60	15/10	3/10P	10/10
42.11	200//5/5	60	15/15	3/10P	10/5
42.11	250//5	60	15	10P	15
42.11	250//5	60	30	10P	10
42.11	250//5/5	60	15/10	0.5/10P	10/10
42.11	250//5/5	60	15/15	0.5/10P	10/5
42.11	250//5/5	60	15/10	3/10P	10/10
42.11	250//5/5	60	15/15	3/10P	10/5
42.11	300//5	60	15	10P	20
42.11	300//5	60	30	10P	10
42.11	300//5/5	60	30/10	0.5/10P	5/15
42.11	300//5/5	60	30/15	0.5/10P	5/10
42.11	300//5/5	60	15/10	3/10P	10/15
42.11	300//5/5	60	15/15	3/10P	10/10
43.11	750//5	100	60	1	10
43.11	750//5	100	30	5P	10
43.11	750//5/5	100	15/30	0.5/5P	5/5
43.11	1000//5	100	60	0.5	10
43.11	1000//5	100	30	5P	10
43.11	1000//5/5	100	30/15	0.5/5P	5/10
43.11	1000//5/5	100	30/30	0.5/5P	5/5
43.11	1250//5	100	120	0.5	5
43.11	1250//5	100	30	5P	15
43.11	1250//5/5	100	30/15	0.5/5P	5/10
43.11	1250//5/5	100	30/30	0.5/5P	5/5
44.11	1500//5	150	120	0.5	10
44.11	1500//5	150	60	5P	10
44.11	1500//5/5	150	60/30	0.5/5P	5/10
44.11	1500//5/5	150	60/60	0.5/5P	5/5
45.11	2000//5	200	120	0.5	10
45.11	2000//5	200	60	5P	10
45.11	2000//5/5	200	60/30	0.5/5P	5/10
45.11	2000//5/5	200	60/60	0.5/5P	5/5
46.11	2500//5	250	120	0.5	10
46.11	2500//5	250	60	5P	15
46.11	2500//5/5	250	60/30	0.5/5P	5/15
46.11	2500//5/5	250	60/60	0.5/5P	5/5

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