

TTR 6x. xx

Indoor bushing current transformers

Highest voltage for equipment	[kV]	24 (25)
Power frequency test voltage, 1 min.	[kV]	50 (55)
Lighting impulse test voltage	[kV]	125
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 6x.xx current transformers are cast in epoxy resin and designed for insulation voltages up to 25 kV. The TTR 6x.xx transformers are configured as bar-type, with either one or more transformer ratios (possibility to change over the secondary side) 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 voltages ... 17.5 kV to 25 kV

Rated primary current

100;150;200;300;400;500;600;750;1000;1250;1500;2000;2500 A

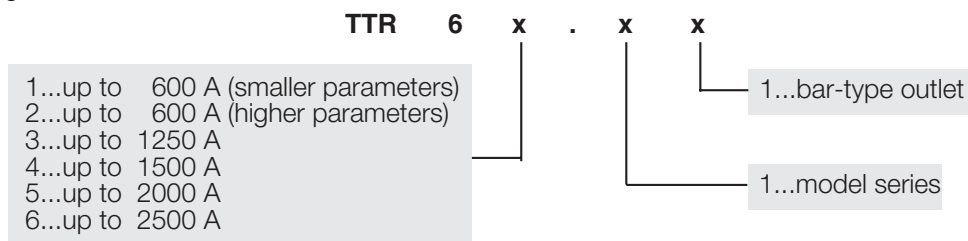
Primary currents different from the above can also be agreed upon with the customer.

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



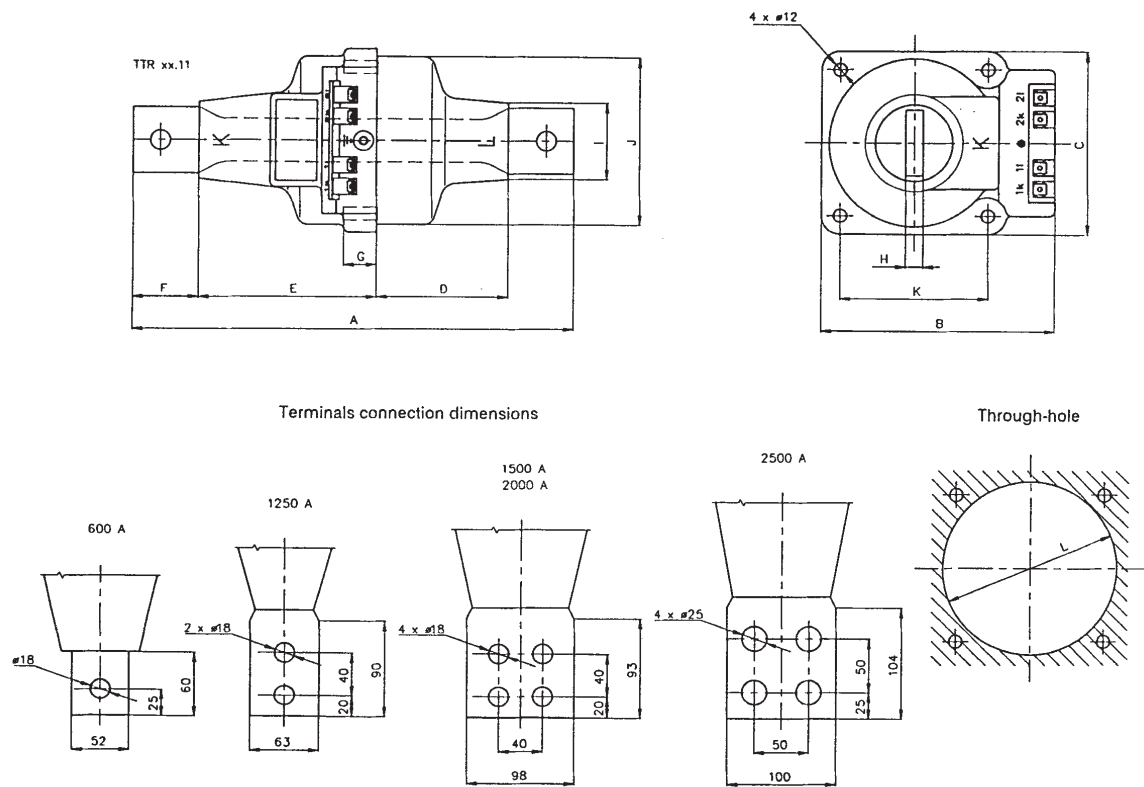
Insulation levels of TTR 6x.xx transformer

17.5 / 38 / 95 kV

24 / 50 / 125 kV

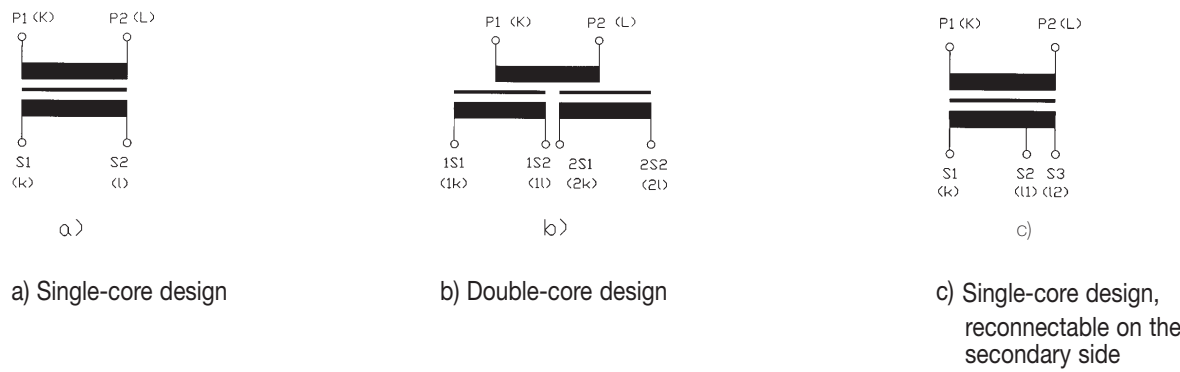
25 / 55 / 125 kV

Dimensions



Insulation voltage [kV]	Type	Rated current [A]	Dimensions													Weight [kg]
			A	B	C	D	E	F	G	H	H	I	J	K	L	
25	TTR 61.11	to 600	620	224	180	238	262	60	30	16	6	71	166	146	170	14.0
	TTR 62.11	to 300	680	224	180	298	262	60	30	16	6	71	166	146	170	21.0
	TTR 63.11	750-1250	690	224	180	238	262	95	30	20	10	71	166	146	170	15.0
	TTR 64.11	1500	700	274	230	238	262	100	30	16	20	110	216	190	220	23.0
	TTR 65.11	2000	700	274	230	238	262	100	30	20	20	110	216	190	220	32.0
	TTR 66.11	2500	720	274	230	238	262	110	30	20	20	110	216	190	220	35.0

Marking of current transformer outlets



Standartized transformers

Type	Ratio [A]	I _{thn} [kA]	Burden [VA]	accuracy	FS/ALF
61.11	100//5	60	5	1	5
61.11	100//5	60	15	3	5
61.11	100//5	60	10	10P	5
61.11	125//5	60	5	1	5
61.11	125//5	60	15	3	5
61.11	125//5	60	5	10P	10
61.11	125//5	60	10	10P	5
61.11	150//5	60	10	0,5	5
61.11	150//5	60	15	3	5
61.11	150//5	60	5	10P	10
61.11	150//5	60	10	10P	5
61.11	200//5	60	15	0,5	5
61.11	200//5	60	30	3	5
61.11	200//5	60	5	10P	15
61.11	200//5	60	15	10P	5
61.11	200//5/5	60	10/10	3/10P	5/5
61.11	200//5/5	60	5/10	0.5/10P	5/5
61.11	250//5	60	15	0.5	5
61.11	250//5	60	45	3	5
61.11	250//5	60	10	10P	10
61.11	250//5	60	15	10P	5
61.11	250//5/5	60	5/5	0.5/10P	5/10
61.11	250//5/5	60	5/10	0.5/10P	5/5
61.11	250//5/5	60	10/5	3/10P	5/10
61.11	250//5/5	60	10/10	3/10P	5/5
61.11	300//5	60	30	0.5	5
61.11	300//5	60	60	3	5
61.11	300//5	60	5	5P	25
61.11	300//5	60	15	5P	10
61.11	300//5/5	60	5/5	0.5/10P	5/10
61.11	300//5/5	60	5/10	0.5/10P	5/5
61.11	300//5/5	60	10/5	3/10P	5/10
61.11	300//5/5	60	10/10	3/10P	5/5
61.11	400//5	60	30	0.5	5
61.11	400//5	60	60	1	5
61.11	400//5	60	15	5P	10
61.11	400//5	60	30	5P	5
61.11	400//5/5	60	10/5	0.5/10P	5/15
61.11	400//5/5	60	10/15	0.5/10P	5/5
61.11	400//5/5	60	15/5	3/10P	5/15
61.11	400//5/5	60	15/15	3/10P	5/5
61.11	500//5	60	30	0.5	5
61.11	500//5	60	90	1	5
61.11	500//5	60	15	5P	15
61.11	500//5	60	30	5P	5
61.11	500//5/5	60	15/5	0.5/5P	5/20
61.11	500//5/5	60	15/10	0.5/5P	5/10
61.11	500//5/5	60	15/15	0.5/5P	5/5
61.11	500//5/5	60	15/5	3/5P	10/20
61.11	500//5/5	60	15/10	3/5P	10/10
61.11	500//5/5	60	15/15	3/5P	10/5
61.11	600//5	60	30	0.5	5
61.11	600//5	60	120	1	5
61.11	600//5	60	15	5P	15
61.11	600//5	60	30	5P	10
61.11	600//5/5	60	15/5	0.5/5P	10/20
61.11	600//5/5	60	15/10	0.5/5P	10/10
61.11	600//5/5	60	15/30	0.5/5P	10/5
61.11	600//5/5	60	30/5	3/5P	5/20
61.11	600//5/5	60	30/10	3/5P	5/10
61.11	600//5/5	60	30/30	3/5P	5/5

Type	Ratio [A]	I _{thn} [kA]	Burden [VA]	accuracy	FS/ALF
62.11	100//5	60	10	10P	10
62.11	100//5	60	15	10P	5
62.11	100//5/5	60	5/5	1/10P	5/10
62.11	100//5/5	60	5/10	1/10P	5/5
62.11	100//5/5	60	15/5	3/10P	5/10
62.11	100//5/5	60	15/10	3/10P	5/5
62.11	125//5	60	10	10P	10
62.11	125//5	60	15	10P	5
62.11	125//5/5	60	5/5	1/10P	5/10
62.11	125//5/5	60	5/10	1/10P	5/5
62.11	125//5/5	60	15/5	3/10P	5/10
62.11	125//5/5	60	15/10	3/10P	5/5
62.11	150//5	60	15	10P	10
62.11	150//5	60	30	10P	5
62.11	150//5/5	60	10/5	0.5/10P	5/15
62.11	150//5/5	60	10/15	0.5/10P	5/5
62.11	150//5/5	60	15/5	3/10P	5/15
62.11	150//5/5	60	15/15	3/10P	5/5
62.11	200//5	60	15	10P	15
62.11	200//5	60	30	10P	5
62.11	200//5/5	60	15/10	0.5/10P	5/10
62.11	200//5/5	60	15/15	0.5/10P	5/5
62.11	200//5/5	60	15/10	3/10P	10/10
62.11	200//5/5	60	15/15	3/10P	10/5
62.11	250//5	60	15	10P	15
62.11	250//5	60	30	10P	10
62.11	250//5/5	60	15/10	0.5/10P	10/10
62.11	250//5/5	60	15/15	0.5/10P	10/5
62.11	250//5/5	60	15/10	3/10P	10/10
62.11	250//5/5	60	15/15	3/10P	10/5
62.11	300//5	60	15	10P	20
62.11	300//5	60	30	10P	10
62.11	300//5/5	60	30/10	0.5/10P	5/15
62.11	300//5/5	60	30/15	0.5/10P	5/10
62.11	300//5/5	60	15/10	3/10P	10/15
62.11	300//5/5	60	15/15	3/10P	10/10
63.11	750//5	100	60	1	10
63.11	750//5	100	30	5P	10
63.11	750//5/5	100	15/30	0.5/5P	5/5
63.11	1000//5	100	60	0.5	10
63.11	1000//5	100	30	5P	10
63.11	1000//5/5	100	30/15	0.5/5P	5/10
63.11	1000//5/5	100	30/30	0.5/5P	5/5
63.11	1250//5	100	120	0.5	5
63.11	1250//5	100	30	5P	15
63.11	1250//5/5	100	30/15	0.5/5P	5/10
63.11	1250//5/5	100	30/30	0.5/5P	5/5
64.11	1500//5	150	120	0.5	10
64.11	1500//5	150	60	5P	10
64.11	1500//5/5	150	60/30	0.5/5P	5/10
64.11	1500//5/5	150	60/60	0.5/5P	5/5
65.11	2000//5	200	120	0.5	10
65.11	2000//5	200	60	5P	10
65.11	2000//5/5	200	60/30	0.5/5P	5/10
65.11	2000//5/5	200	60/60	0.5/5P	5/5
66.11	2500//5	250	120	0.5	10
66.11	2500//5	250	60	5P	15
66.11	2500//5/5	250	60/30	0.5/5P	5/15
66.11	2500//5/5	250	60/60	0.5/5P	5/5

ABB s.r.o.

PPMV Brno

Videnska 117

619 00 Brno, Czech Republic

Tel.: +420 547 152 602

+420 547 152 614

Fax: +420 547 152 626

E-mail: info.ejf@cz.abb.com

www.abb.com

The data and illustrations in this catalogue are not binding. We reserve the right to make changes of the content, in the course of technical development of the product.

1VLC000522 - Rev 1, en 2010.xx.xx