



Single phase control transformer with separated windings by galvanic isolation between primary and secondary.

Economic design intended for installation in control circuits such as switches, interlocking, signaling systems... Screw fixing (for all ratings).

Reduced size and weight for easy installation in switchgear cabinets or control panels.


Open mounting IP-00 with a completely vacuum varnishing for a robust finish that protects it from moisture, dust and corrosion. It also prevents any vibration and noises.

Connection protected by connection terminals from direct contact.

For higher protection it is recommended to install fuses (not included) that could be added on request.

Wide range of primary and secondary voltages (multi-taps) available according to installation requirements.

Technical characteristics

Power rating	25 ÷ 5000 VA
Input voltage	≤ 750 V
Output voltage	≤ 750 V
Frequency	50/60 Hz
Ambient temperature	40 °C
Insulation class	F (155 °C)
Protection degree	IP-00
Safety class	Class I 
Test voltage	4 kV
Standard	IEC/UNE-EN 61558-1



IEC/UNE-EN 61558-2-2

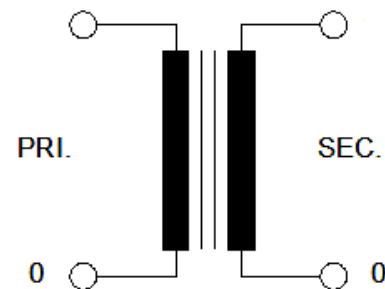


Output voltage < 50 V:
IEC/UNE-EN 61558-2-6



Output voltage > 50 V:
IEC/UNE-EN 61558-2-4

Electrical diagram



- For general applications, select output rating according to the load and power factor:

$$VA = W / \cos \varphi$$

- To be used as control transformer for relays, contactors, timers, electro-valves, etc:

1° Sum all maintenance powers of elements.

2° Multiply value by 4.

Nominal power rating **VA** is obtained.

Verify that instantaneous power of the selected transformer (see table below) is higher than the simultaneous powers of the control elements.

It is recommended a protection against short circuits via fuse, installed in series at the primary circuit.

Inrush current of a transformer can reach about 20-30 times I nominal during 5-10 ms. For this reason, fuses selected must be slow-blow or time-delay types.

It is recommended a fuse at the secondary side of the transformer according to the load to protect it against overload. Its size must be next lower than I nominal of the transformer label.

Power Rating VA		Reference	Dimensions mm						Weight kg	Type	Primary Protection T , aM , D	
Nominal	(Inst.)		A	B	C	D	E	Ø			230V	400V
25	(65)	CSSx0025	75	58	75	44	62	4x10	0,7	I	125mA	80 mA
40	(80)	CSSx0040	75	58	75	44	62	4x10	1	I	200mA	125mA
63	(135)	CSSx0063	75	58	75	44	62	4x10	1,1	I	315mA	200mA
100	(210)	CSSx0100	75	72	75	59	62	4x10	1,6	I	500mA	315mA
160	(370)	CSSx0160	84	88	82	72	70	5x11	2,5	I	800mA	500mA
200	(460)	CSSx0200	96	88	91	70	80	5x14	3	I	1A	600mA
250	(650)	CSSx0250	96	98	91	80	80	5x16	3,6	I	1,25A	800mA
315	(875)	CSSx0315	108	105	102	84	90	6x16	4,5	I	1,6A	1A
400	(1250)	CSSx0400	108	122	102	98	90	6x16	5,4	II	2A	1,25A
500	(1400)	CSSx0500	126	114	116	88	105	6X16	6,5	II	2,5A	1,6A
630	(1800)	CSSx0630	126	134	116	108	105	6X16	8	II	3,15A	2A
1000	(3200)	CSSx1000	150	145	120	116	125	8X20	12	II	5A	3,15A
1600	(5350)	CSSx1600	150	195	120	166	125	8X20	18	II	8A	5A
2000	(5600)	CSSx2000	195	150	175	120	164	10X23	21	II	10A	6,3A
2500	(7800)	CSSx2500	195	180	175	150	164	10X23	30	II	12A	8A
3150	(10100)	CSSx3150	195	200	175	170	164	10X23	33,5	II	15A	8A
4000	(12500)	CSSx4000	240	218	215	178	200	12X28	42	II	20A	12A
5000	(15000)	CSSx5000	240	248	215	208	235	12x28	49	II	25A	15A

* Other features, power, voltage, etc., on request.

* Torytrans reserves the right to modify the information in any time and without prior notice.

