

TSO - THREE-PHASE ISOLATING AND SAFETY ISOLATING TRANSFORMERS



General characteristics

Isolating transformer rated power 0.5 KVA – 630 KVA
Safety isolating transformer rated power 0.5 KVA – 15 KVA
Input phase-phase voltage < 1000 VAC
Output phase-phase voltage of isolating transformer 51 V – 1000 VAC
Output phase-phase voltage of safety isolating transformer < 50 VAC
Operation continuous
Frequency 50-60 Hz
Protection class I
Insulation class B 130 °C
Degree of protection IP 00
Cooling method natural air circulation
Maximum ambient temperature 40 °C
Type dry

Advantages

Small size in relation to power due to the high quality of materials
High performance due to the heat dissipation achieved through special air vents
Safe and simple cable connection achieved through the use of special terminals
Easy installation using special mounting supports that permit the comfortable use of tools
Reliability achieved through high standards of quality control carried out by state-of-the-art, calibrated instruments at all stages of production, from receipt of raw materials to inspection of final products, one by one



STANDARDS:

EN 61558-2-4 / IEC 61558-2-4
EN 61558-2-6 / IEC 61558-2-6
EN 60076-1 / IEC 60076-1

ISOLATING TRANSFORMERS CAN BE USED:

- When galvanic isolation of the load and the user from the power source (e.g. power grid) is required for protective purposes. The supply voltage can be transformed to a different value at the same time.
- Where there is a need to supply large loads, such as in industry or shipping.
- When the transformer is incorporated as a component of a circuit/configuration (e.g. electrical control panel).

SAFETY ISOLATING TRANSFORMERS CAN BE USED:

- When safe extra low voltage (SELV) is required, in addition to isolation.
- In industry and shipping where there is a need to supply large loads.
- To supply SELV rectifying circuits.
- When the transformer is incorporated as a component of a circuit/configuration (e.g. electrical control panel).

MECHANICAL SPECIFICATIONS

POWER (KVA)	TERMINALS	MOUNT TYPE	MOUNT-ING SCREWS	WEIGHT (kg)	DIMENSION DIAGRAM	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
0,5	RAIL CLAMP	BASE ANGLES	M6	8,2	1	177	114	204	129	69
1	RAIL CLAMP	BASE ANGLES	M6	13,8	1	236	124	254	129	84
1,5	RAIL CLAMP	BASE ANGLES	M6	17,2	1	236	134	254	129	94
2	RAIL CLAMP	BASE ANGLES	M8	20,4	1	236	144	254	129	104
2,5	RAIL CLAMP	BASE ANGLES	M8	26,2	1	298	149	302	200	104
3	RAIL CLAMP	BASE ANGLES	M8	29,8	1	298	159	302	200	114
4	RAIL CLAMP	BASE ANGLES	M8	35,4	1	298	169	302	200	124
5	RAIL CLAMP	BASE ANGLES	M8	43,9	1	358	164	346	260	118
6,3	RAIL CLAMP	BASE ANGLES	M8	51,3	1	358	174	346	260	128
8	RAIL CLAMP	U-SHAPED FOOT MOUNT	M12	61,0	2	358	208	346	260	138
10	RAIL CLAMP	U-SHAPED FOOT MOUNT	M12	77,7	2	450	280	435	280	250
12	RAIL CLAMP	U-SHAPED FOOT MOUNT	M12	90,1	2	450	280	435	280	250
15	RAIL CLAMP	U-SHAPED FOOT MOUNT	M12	101	2	450	280	435	280	250
20	RAIL CLAMP	U-SHAPED FOOT MOUNT	M12	129	2	480	300	486	350	270
25	RAIL CLAMP	U-SHAPED FOOT MOUNT	M12	153	2	480	300	486	350	270
30	RAIL CLAMP	U-SHAPED FOOT MOUNT	M12	169	2	480	300	486	350	270
40	RAIL CLAMP-M10 SCREW	U-SHAPED FOOT MOUNT	M12	237	2	600	350	620	480	320
50	RAIL CLAMP-M10 SCREW	U-SHAPED FOOT MOUNT	M12	268	2	600	350	620	480	320
63	RAIL CLAMP-M10 SCREW	U-SHAPED FOOT MOUNT	M12	321	2	600	350	620	480	320

TSO - THREE-PHASE ISOLATING AND SAFETY ISOLATING TRANSFORMERS

MECHANICAL SPECIFICATIONS

POWER (KVA)	TERMINALS	MOUNT TYPE	MOUNT-ING SCREWS	WEIGHT (kg)	DIMENSION DIAGRAM	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
80	M10 SCREW	U-SHAPED FOOT MOUNT	M12	391	2	900	610	725	500	580
100	M10 SCREW	U-SHAPED FOOT MOUNT	M12	441	2	900	610	725	500	580
125	M10 SCREW	U-SHAPED FOOT MOUNT	M12	505	2	900	610	725	500	580
160	M12 SCREW	U-SHAPED FOOT MOUNT	M12	618	2	1000	600	835	580	570
200	M12 SCREW	U-SHAPED FOOT MOUNT	M12	722	2	1000	600	835	580	570
250	M12 SCREW	U-SHAPED FOOT MOUNT	M14	918	2	1200	680	965	660	650
315	M12 SCREW	U-SHAPED FOOT MOUNT	M14	1067	2	1200	680	965	660	650
350	M12 SCREW	U-SHAPED FOOT MOUNT	M14	1170	2	1200	680	965	660	650
400	M16 SCREW	U-SHAPED FOOT MOUNT	M14	1391	2	1300	700	1130	760	670
500	M16 SCREW	U-SHAPED FOOT MOUNT	M14	1751	2	1300	700	1130	760	670
630	M16 SCREW	U-SHAPED FOOT MOUNT	M14	2108	2	1500	800	1225	800	770

* Dimensions may vary for safety isolating transformers, depending on power rating and output voltage.

DIMENSION DIAGRAMS

