

ISOLATION TRANSFORMERS

SERIES

10-1200 kVA **3**
PHASE

1-10 kVA **1**
PHASE



HIGHLIGHTS

- Reliable, Electrical Isolation
- Suppresses Electrical Noise
- Ensures Complete Safety of Equipment

Excellent Protection & High Level of Isolation

- An isolation transformer is the best way to establish a new neutral-ground bond, in order to correct common mode and other grounding problems.
- Isolation transformer provides excellent protection from all types of N-G disturbances (impulses, RMS voltage, and high frequency noise).
- Makelsan isolation transformers can be used reliably in following areas:

Medical devices, CNC machines, UPS systems, Ships and boats, Shipyards, Metal processing plants, Rectifier and battery chargers, Industrial machines power supply units

CERTIFICATES



FEATURES

- Standards : TS EN 61558-2-4
- Input Voltage : 230 VAC Ph+N / 400 VAC Ph-Ph (Three Phase)
220 VAC Ph+N (Single Phase)
- Output Voltage : 230 VAC Ph+N / 400 VAC Ph-Ph (Three Phase)
110 VAC Ph+N (Single Phase)
- Frequency : 50 - 60 Hz
- Windings : Aluminum or Copper Foil*
- Magnetic Circuit : 0,50 mm Transformer Steel w/ 1,8 W/kg Loss
- Connections : Star, Delta, Zig-Zag
- Protection Class : Standard**
- Isolation Class : Isolation Class B (120°C) (Standard)***
Varnish Under Vacuum According to Isolation Class
- Cooling : Natural**
- Ambient Temperature : -10°C...+40°C
- Storage Conditions : -20°C...+70°C
- Connections : As Per to Customer Requirements:
All Types of Terminals and Lugs



* 'Copper Foil' or 'Enameled Copper Wire' can be used upon request.

** Can be changed upon request.

*** Can be produced in F (155°C) or H (180°C) classes upon request.

3 PHASE ISOLATION TRANSFORMERS

Power	Model Code	Chassis Dims (WxHxD)	Chassis Weight	Connection	Wire
10kVA	MTIC010HV1	667 x 768 x 330	110	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
10kVA	MTIC010HV4	883 x 1048 x 431	172	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
10kVA	MTIC010HV5	805 x 700 x 665	231	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
12kVA	MTIC012HV1	650 x 370 x 564	115	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
15kVA	MTIC015HV1	800 x 800 x 647	170	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
18kVA	MTIC018HV1	800 x 800 x 647	180	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
20kVA	MTIC020HV1	805 x 700 x 665	190	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
24kVA	MTIC024HV1	600 x 700 x 638	200	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
30kVA	MTIC030HV1	800 x 800 x 647	230	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
30kVA	MTIC030HV2	883 x 1048 x 431	247	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
30kVA	MTIC030HV4	625 x 800 x 495	210	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
30kVA	MTIC030HV5	805 x 700 x 665	234	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
36kVA	MTIC036HV1	600 x 700 x 638	157	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
40kVA	MTIC040HV1	800 x 800 x 647	285	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
45kVA	MTIC045HV1	800 x 800 x 647	289	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
60kVA	MTIC060HV1	800 x 800 x 647	355	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
60kVA	MTIC060HV4	883 x 1048 x 431	357	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
60kVA	MTIC060HV5	800 x 800 x 647	339	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
72kVA	MTIC072HV1	905 x 874 x 792	320	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
80kVA	MTIC080HV1	905 x 1000 x 792	400	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
150kVA	MTIC150HV4	906 x 1000 x 792	530	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
180kVA	MTIC180HV1	1120 x 1000 x 842	589	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
250kVA	MTIC250HV3	1120 x 1000 x 842	765	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
300kVA	MTIC300HV2	976 x 1005 x 655	806	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM
375kVA	MTIC375HV1	1200 x 1100 x 800	1083	Y-Y/Δ-Y/Y-Δ/Δ-Δ	COPPER/ALUMINIUM

1 PHASE ISOLATION TRANSFORMERS

Power	Model Code	Chassis Dims (WxHxD)	Chassis Weight	Connection	Wire
2kVA	MTIC002HV2	312 x 341 x 295	24	1 Phase	COPPER/ALUMINIUM
6kVA	MTIC006HV1	625 x 800 x 495	75	1 Phase	COPPER/ALUMINIUM
10kVA	MTIC007HV2	625 x 800 x 495	105	1 Phase	COPPER/ALUMINIUM

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