



Column-type Single-phase isolating transformers
For supply of medical locations

Series MCIM

Power from 3kVA to 10kVA
Input on request max 1000V
Output on request max 250V

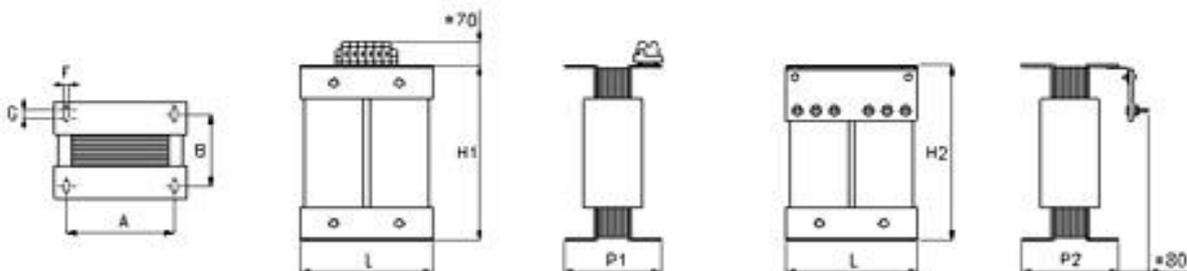
Technical features

This isolating single-phase transformers, are made under International Standard IEC 61558-2-15 VDE 0570 Teil 1 VDE 0570 Teil 2-15 CE for the supply of group II medical locations, designed to be permanently connected to the fixed wiring of IT supply system, having a rated supply voltage not exceeding 500 V a.c. and rated frequency 50/60 Hz. The rated output shall not less than 3 KVA and shall not exceeded 10 KVA.

- The no-load output voltage and the rated output voltage shall not exceeded 250 V a.c.
- Made with double or reinforced insulation between each part of the transformers (body,screen,circuits) except between the core and the body.
- Frequency 50/60 Hz
- Air-cooled Dry-type transformers class I IP00, terminal block IP20
- Material insulation system Class F
- Ambient temperatur Ta 40°C max

Dimensions and drillings

Reference number	Rated thermal output (kVA)	Dimensions			Drillings		Dissipated power (W)	Efficiency (%)	Weight (Kg)
		L	P	H	A	B			
MCIM/511	3,15	200	170	255	150	130	111	95.6	26
MCIM/512	4	240	170	305	205	130	141	96.5	34
MCIM/513	5	240	180	305	205	140	170	96.5	40
MCIM/514	6.3	240	190	305	205	150	235	96.3	45
MCIM/515	8	280	200	355	230	150	270	96.6	53
MCIM/516	10	280	210	355	230	160	319	96.8	66



The data indicated could change without notice

Technical notes

The technical choice in using a column-type instead of a shell-type core is determined by the greater heat dissipation capability needed when output power increases. Comparing it to the shell-type transformer, the winding is divided up on 2 double-height coils, thus creating a larger surface for heat exchange. The magnetic cores of the whole family are low loss grain oriented and thus with low power dispersal.

The connections, according to the transformer power and voltages, are on terminal blocks on a rail or on a panel board with silver-alloy welded screws. This feature is fundamental when high currents are used. The braze welding system ensures a good mechanical sturdiness and an excellent electrical contact.

The MCS safety isolating transformer family has the same use as the SMM shell-type, differing only in power (max. 10 KVA, as per standard requirements) and the type of usable loads.

The isolating transformers of the MCI family are used to create isolated supply lines from the mains supply, for electromedical equipment in hospital installations, operating rooms, where the presence of a tap on winding output to be connected to an isolation detector is needed. This family is also used for computer systems when the neutral line does not exist or is unstable.

Upon request, it is possible to fit, between the input and output, an electrostatic shield connected to a terminal block. When connecting it to earth, higher safety levels and filtering effects from the common mains supply interferences are obtained, thus eliminating stray capacitance effects between input and output.

The standard vertical installation has vertical coils and "L" shape brackets. In horizontal installations, transformers with "Z" shape brackets can be supplied, upon request or after contacting our Technical Service.