



Wires: 2 x light blue  
primary thermoswitch 140°C.

Wires: 2 x black  
secondary thermoswitch 80°C.

Wires: 2 x yellow  
rectifier thermoswitch 65°C.

Wires: 1 x brown; 1 x white –secondary toroid  
current monitor 150 mV/kA ± 3% at  
1kΩ ohmic resistance.

Earthing: if the earth connection MP is removed  
another suitable kind of protective  
measure is to be installed.

| Type                                     | Turns ratio      | Rated supply voltage<br>$U_{1n}$ [V] | Frequency<br>$f$ [Hz]                               | Permanent input current<br>$I_{1p}$ [A] | Cooling water<br>min. 6 L/min,<br>max. 30°C                   |
|--|------------------|--------------------------------------|---|---|---|
| MIT-100-H-500/8.3 TM                     | 55:1             | 500                                  | 1000  | 98                                      |   |
| Rectified voltage, $U_{2d}$ [V]          | 8.3              |                                      |   |   | Normative references:<br>ISO 5826, ISO 10656,<br>ISO/CD 22829 |
| Output current [kA]                      | 5.4              |                                      |   |   |   |
| Permanent, $I_{2P}$                      | 12               |                                      |   |   |   |
| Nominal @x = 20%                         | 25               |                                      |   |   |   |
| On 200 μΩ load, $I_{2R}$                 | See diagram      |                                      |   |   | MF Transformer<br>Rectifier<br>$S_n$ : 100 kW @x = 20%        |
| Admissible                               | 50               |                                      |   |   |   |
| Surge $I_{FSM}$ (10ms, $T_{jmax}$ 170°C) |                  |                                      |   |   |   |
| Protection class                         | Insulation class | Mass [Kg]                            | Tel.: +359-2-8774-596                               |   | 2003 Name Date Issue 1  |
| Transformer                              | IP65             | F                                    | Fax: +359-2-9753-032                                |   |   |
| Terminals                                | IP00             | 17.5                                 | e-mail isomatic @ isomatic.com<br>www.isomatic.com. |   |   |
|  |                  |                                      |   |   | Drawn TT 20.06  |
|  |                  |                                      |   |   | Checked GN 30.06  |