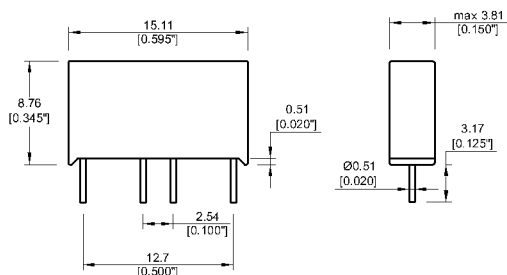


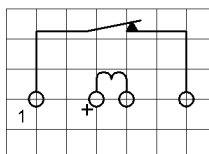
### DIMENSIONS (mm)

Unspecified Tolerances +/- 0.127mm



### LAYOUT 78L

Pitch 2.54mm [0.100"] / Top View



### MARKING

Top View

 MEDER ww/yy  
 1 MS12-1B87-78L

| Coil Data at 20 °C | Conditions | Min | Typ | Max | Unit |
|--------------------|------------|-----|-----|-----|------|
| Coil resistance    |            | 630 | 700 | 770 | Ohm  |
| Coil voltage       |            |     | 12  |     | VDC  |
| Rated power        |            |     | 205 |     | mW   |
| Pull-In voltage    |            |     |     | 8,4 | VDC  |
| Drop-Out voltage   |            | 1,8 |     |     | VDC  |

| Contact data 87            | Conditions                                                        | Min | Typ | Max | Unit |
|----------------------------|-------------------------------------------------------------------|-----|-----|-----|------|
| Contact rating             | Any DC combination of V & A not to exceed their individual max.'s |     |     | 10  | W    |
| Switching voltage          | DC or Peak AC                                                     |     |     | 200 | V    |
| Switching current          | DC or Peak AC                                                     |     |     | 0,4 | A    |
| Carry current              | DC or Peak AC                                                     |     |     | 1   | A    |
| Contact resistance static  | Measured with 40% overdrive Start Value                           |     |     | 150 | mOhm |
| Contact resistance dynamic | Maximum value 1,5 ms after excitation Start Value                 |     |     | 200 | mOhm |
| Insulation resistance      | RH <45 %, 100V - to all points                                    | 1   |     |     | TOhm |
| Breakdown voltage          | according to IEC 255-5                                            | 230 |     |     | VDC  |
| Operate time incl. bounce  | measured with nominal voltage                                     |     |     | 0,5 | ms   |
| Release time               | measured with no diode suppression                                |     |     | 0,1 | ms   |
| Capacitance                | @ 10 kHz across open switch                                       |     | 0,2 |     | pF   |

| Special Product Data           | Conditions             | Min                      | Typ | Max | Unit  |
|--------------------------------|------------------------|--------------------------|-----|-----|-------|
| Isolation voltage Coil/Contact | according to IEC 255-5 | 1,5                      |     |     | kV DC |
| Connection pins                |                        | FeNi-alloy tin plated    |     |     |       |
| Magnetic Shielding             |                        | Internal mu-metal shield |     |     |       |
| Remarks                        |                        |                          |     |     |       |

| Environmental data    | Conditions                  | Min          | Typ | Max | Unit |
|-----------------------|-----------------------------|--------------|-----|-----|------|
| Shock                 | 1/2 sine wave duration 11ms |              |     | 50  | g    |
| Vibration             | from 10 - 2000 Hz           |              |     | 20  | g    |
| Operating temperature |                             | -20          |     | 70  | °C   |
| Storage temperature   |                             | -20          |     | 95  | °C   |
| Soldering temperature | wave soldering max. 5 sec   |              |     | 260 | °C   |
| Washability           |                             | fully sealed |     |     |      |