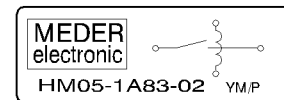
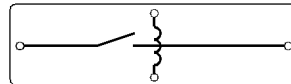
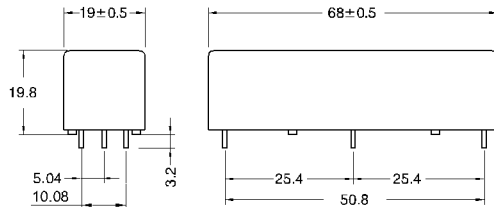


LAYOUT  
 Top view



Pins: Ø0.8 mm  
 L = 3.2±0.3 mm  
 Material: Cu-alloy tinned

MARKING

MEDER-Label  
 Type/Layout  
 Production code,  
 EN60062/Factory code

Abmessungen / dimensions ( mm )  
 tolerances according to DIN ISO 2768 m

| Coil Data at 20 °C | Conditions | Min | Typ | Max | Unit |
|--------------------|------------|-----|-----|-----|------|
| Coil resistance    |            | 40  | 45  | 50  | Ohm  |
| Coil voltage       |            |     | 5   |     | VDC  |
| Rated power        |            |     | 556 |     | mW   |
| Pull-In voltage    |            |     |     | 3,8 | VDC  |
| Drop-Out voltage   |            | 0,5 |     |     | VDC  |

| Contact data 83           | Conditions  | Min | Typ | Max   | Unit  |
|---------------------------|---|-----|-----|-------|-------|
| Contact rating            | Any DC combination of V & A not to exceed their individual max.'s |     |     | 50    | W     |
| Switching voltage         | DC or Peak AC   |     |     | 7.500 | V     |
| Switching current         | DC or Peak AC   |     |     | 3     | A     |
| Carry current             | DC or Peak AC   |     |     | 5     | A     |
| Contact resistance static | Measured with 40% overdrive Start Value                           |     |     | 150   | mOhm  |
| Insulation resistance     | RH <45 %, 100 V test voltage                                      | 10  |     |       | TOhm  |
| Breakdown voltage         | according to IEC 255-5  | 10  |     |       | kV DC |
| Operate time incl. bounce | measured with 40% overdrive                                       |     |     | 3,2   | ms    |
| Release time              | measured with no coil excitation                                  |     |     | 1,5   | ms    |
| Capacitance               | @ 10 kHz across open switch                                       |     | 0,8 |       | pF    |

| Special Product Data               | Conditions                    | Min | Typ | Max                     | Unit  |
|------------------------------------|-------------------------------|-----|-----|-------------------------|-------|
| Number of contacts                 |                               |     |     | 1                       |       |
| Contact - form                     |                               |     |     | A - NO                  |       |
| Dielectric Strength Coil/Contact   | according to IEC 255-5        | 15  |     |                         | kV DC |
| Insulation resistance Coil/Contact | RH <45%, 200 VDC test voltage | 10  |     |                         | TOhm  |
| Case colour                        |                               |     |     | gray                    |       |
| Housing material                   |                               |     |     | Polycarbonat            |       |
| Sealing compound                   |                               |     |     | Polyurethan             |       |
| Connection pins                    |                               |     |     | Copper alloy tin plated |       |
| Reach / RoHS conformity            |                               |     |     | yes                     |       |

Modifications in the sense of technical progress are reserved

Designed at: 13.10.08 Designed by: ALICHTENSTEIN Approval at: 15.10.08 Approval by: KOLBRICH  
 Last Change at: 18.03.11 Last Change by: WKOVACS Approval at: 18.03.11 Approval by: CRUF

Version: 07



*Products for tomorrow...*

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Item No.:  
**8405183002**  
Item:  
**HM05-1A83-02**

| 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   |                             | -25          |     | 85  | °C   |
| Soldering temperature | wave soldering max. 5 sec.  |              |     | 260 | °C   |
| Washability           |                             | fully sealed |     |     |      |

| General data | Conditions | Min                     | Typ | Max | Unit |
|--------------|------------|-------------------------|-----|-----|------|
| Total weight |            |                         | 50  |     | g    |
| Packaging    |            | carton box 10 pcs./each |     |     |      |

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Last Change at: 18.03.11    Last Change by: WKOVACS

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Approval at: 18.03.11    Approval by: CRUF

Version: 07