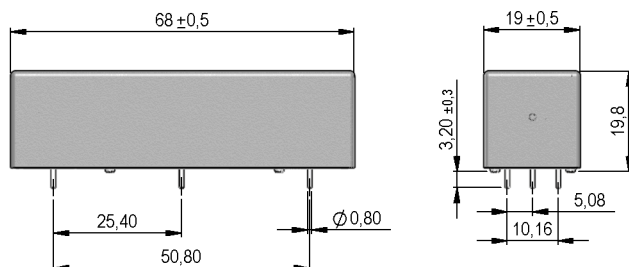


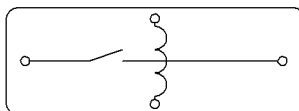
### Dimensions mm[inch]

tolerances acc. to DIN ISO 2768-m  
Toleranzen gem. DIN ISO 2768-m



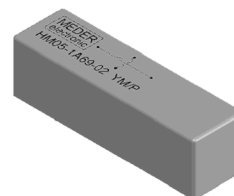
### Layout

Top view  
Draufsicht



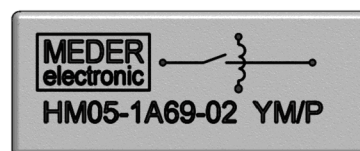
### Isometric

Scale 1:2  
Maßstab 1:2



### Marking

according to EN60062/factory code  
gem. EN60062/Fertigungsstätte



| Coil Data at 20 °C | Conditions                                                       | Min | Typ | Max | Unit |
|--------------------|------------------------------------------------------------------|-----|-----|-----|------|
| Coil resistance    |                                                                  | 27  | 30  | 33  | Ohm  |
| Coil voltage       |                                                                  |     | 5   |     | VDC  |
| Rated power        |                                                                  |     | 833 |     | mW   |
| Coil current       |                                                                  |     | 165 |     | mA   |
| Thermal resistance | max. Relay temperature<br>= operating temperature + self heating |     | 20  |     | K/W  |
| Inductance         |                                                                  |     | 25  |     | mH   |
| Pull-In voltage    |                                                                  |     |     | 3,8 | VDC  |
| Drop-Out voltage   |                                                                  | 0,5 |     |     | VDC  |

| Contact data 69           | Conditions                                                           | Min | Typ | Max    | Unit  |
|---------------------------|----------------------------------------------------------------------|-----|-----|--------|-------|
| Contact rating            | Any DC combination of V & A<br>not to exceed their individual max.'s |     |     | 50     | W     |
| Switching voltage         | DC or Peak AC                                                        |     |     | 10.000 | V     |
| Switching current         | DC or Peak AC                                                        |     |     | 3      | A     |
| Carry current             | DC or Peak AC                                                        |     |     | 5      | A     |
| Contact resistance static | Measured with 40% overdrive<br>Start Value                           |     |     | 150    | mOhm  |
| Insulation resistance     | RH <45 %, 100 V test voltage                                         | 10  |     |        | TOhm  |
| Breakdown voltage         | according to IEC 255-5                                               | 15  |     |        | kV DC |
| Operate time incl. bounce | measured with 40% overdrive                                          |     |     | 3      | 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  |
| Capacity Coil/Contact              | @ 10 kHz                       |     | 2,5                     |     | pF    |
| Case colour                        |                                |     | gray                    |     |       |
| Housing material                   |                                |     | Polycarbonat            |     |       |
| Sealing compound                   |                                |     | Polyurethan             |     |       |
| Connection pins                    |                                |     | Copper alloy tin plated |     |       |
| Magnetic Shield                    |                                |     | no                      |     |       |
| Reach / RoHS conformity            |                                |     | yes                     |     |       |



*Products for  
Homomax...*

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| Email: salesasia@meder.com

Item No.:

**8405169002**

Item:

**HM05-1A69-02**

| 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 |     |     |      |

Modifications in the sense of technical progress are reserved

Designed at: 30.06.03 Designed by: EBUNKE

Approval at: 26.09.08 Approval by: KOLBRICH

Last Change at: 14.12.12 Last Change by: DRUDOLF

Approval at: 14.12.12 Approval by: DRUDOLF

Rev. No.: 12