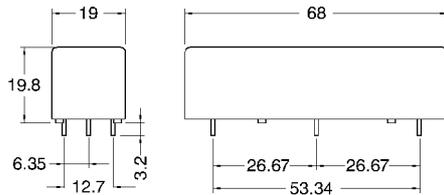
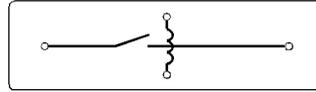
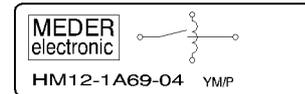


**DIMENSIONS (mm)**

**PINS**

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


**LAYOUT**

Top view


**MARKING**

**MARKING**

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

| Coil Data at 20 °C | Conditions | Min | Typ | Max | Unit |
|--------------------|------------|-----|-----|-----|------|
| Coil resistance    |            | 135 | 150 | 165 | Ohm  |
| Coil voltage       |            |     | 12  |     | VDC  |
| Rated power        |            |     | 960 |     | mW   |
| Pull-In voltage    |            |     |     | 9   | VDC  |
| Drop-Out voltage   |            | 1   |     |     | VDC  |

| Contact data 69           | 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   |     |     | 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 Start Value                           |     |     | 150    | mOhm  |
| Insulation resistance     | RH <45 %, 100 V test voltage                                      | 10  |     |        | TOhm  |
| Breakdown voltage         | according to EN 60255-5   | 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 EN 60255-5       | 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                          |       |
| Magnetic Shield                    |                               |     |     | no   |       |
| Reach / RoHS conformity            |                               |     |     | yes  |       |
| Remark                             |                               |     |     | High voltage relay for PCB-mounting (04=PIN OUT) |       |



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Item:

**HM12-1A69-04**

| 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: 17.07.08 Designed by: WKOVACS

Approval at: 03.12.10 Approval by: CRUF

Last Change at: 06.07.15 Last Change by: DRUDOLF

Approval at: 06.07.15 Approval by: DRUDOLF

Rev. No.: 04