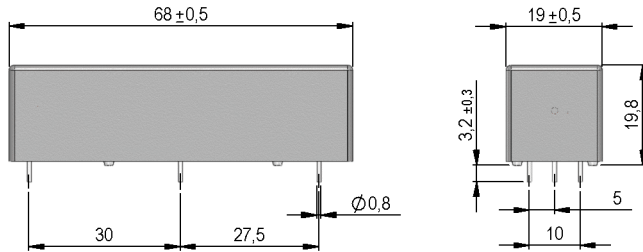
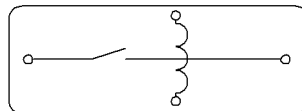


**Dimensions mm[inch]**  
 tolerances acc. to DIN ISO 2768-m  
 Toleranzen gem. DIN ISO 2768-m



**Layout**  
 Top view  
 Draufsicht

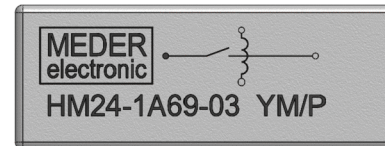


**Isometric**  
 Scale 1:2  
 Maßstab 1:2



**Marking**

according to EN60062/factory code  
 gem. EN60062/Fertigungsstätte



| Coil Data at 20 °C | Conditions   | Min | Typ | Max | Unit |
|--------------------|--|-----|-----|-----|------|
| Coil resistance    |  | 540 | 600 | 660 | Ohm  |
| Coil voltage       |  |     | 24  |     | VDC  |
| Rated power        |  |     | 960 |     | mW   |
| Coil current       |  |     | 40  |     | mA   |
| Thermal resistance | max. Relay temperature<br>= operating temperature + self heating |     | 27  |     | K/W  |
| Inductance         |  |     | 600 |     | mH   |
| Pull-In voltage    |  |     |     | 18  | VDC  |
| Drop-Out voltage   |  | 2   |     |     | 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                      |     | 1,2                     |     | pF    |
| Case colour                        |                               |     |                         |     |       |
| Housing material                   |                               |     | Polycarbonat            |     |       |
| Sealing compound                   |                               |     | Polyurethan             |     |       |
| Connection pins                    |                               |     | Copper alloy tin plated |     |       |
| Magnetic Shield                    |                               |     | no                      |     |       |
| Reach / RoHS conformity            |                               |     | yes                     |     |       |



*Products for tomorrow...*

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Item No.:  
**8424169003**  
Item:  
**HM24-1A69-03**

| 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   |                             | -35          |     | 105 | °C   |
| Soldering temperature | wave soldering max. 5 sec.  |              |     | 260 | °C   |
| Washability           |                             | fully sealed |     |     |      |

| General data | Conditions | Min                      | Typ | Max | Unit |
|--------------|------------|--------------------------|-----|-----|------|
| Total weight |            |                          | 42  |     | g    |
| Packaging    |            | carton box, 10 pcs./each |     |     |      |

Modifications in the sense of technical progress are reserved

Designed at: 13.04.04    Designed by: EBUNKE  
Last Change at: 27.06.11    Last Change by: WKOVACS

Approval at: 26.09.08    Approval by: KOLBRICH  
Approval at: 27.06.11    Approval by: CRUF

Version: 06