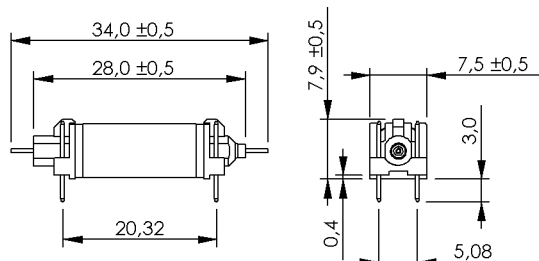
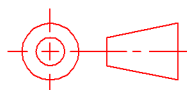


### DIMENSIONS (mm)

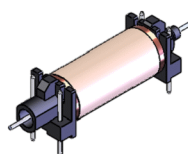
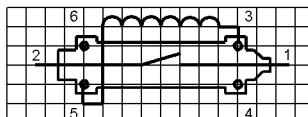


Pins:  $\varnothing$  0.5 mm  
 L = 3.0±0.3 mm  
 Material: Cu-alloy tinned



dimensions (mm)  
 tolerances according to DIN ISO 2768 m

### LAYOUT pitch 2.54 mm/Top view



### MARKING

**MEDER**  
 electronic

HI05-1A66  
 YM/P

MEDER-Label  
 Type  
 Production code,  
 EN60062/Factory code

| Coil Data at 20 °C | Conditions                                                       | Min  | Typ | Max | Unit |
|--------------------|------------------------------------------------------------------|------|-----|-----|------|
| Coil resistance    |                                                                  | 540  | 600 | 660 | Ohm  |
| Coil voltage       |                                                                  |      | 5   |     | VDC  |
| Rated power        |                                                                  |      | 42  |     | mW   |
| Coil current       |                                                                  |      | 8,3 |     | mA   |
| Thermal resistance | max. Relay temperature<br>= operating temperature + self heating |      | 93  |     | K/W  |
| Inductance         |                                                                  |      | 140 |     | mH   |
| Pull-In voltage    |                                                                  |      |     | 3,5 | VDC  |
| Drop-Out voltage   |                                                                  | 0,75 |     |     | VDC  |

| Contact data 66/3             | Conditions                                                           | Min | Typ | Max  | Unit |
|-------------------------------|----------------------------------------------------------------------|-----|-----|------|------|
| Contact rating                | Any DC combination of V & A<br>not to exceed their individual max.'s |     |     | 10   | W    |
| Switching voltage             | DC or Peak AC                                                        |     |     | 200  | V    |
| Switching current             | DC or Peak AC                                                        |     |     | 0,5  | A    |
| Carry current                 | DC or Peak AC                                                        |     |     | 1    | A    |
| Contact resistance static     | Measured with 40% overdrive<br>Start Value                           |     |     | 150  | mOhm |
| Insulation resistance         | RH <45 %, 100 V test voltage                                         | 100 |     |      | TOhm |
| Breakdown voltage ( < 20 AT ) | according to IEC 255-5                                               | 250 |     |      | VDC  |
| Operate time incl. bounce     | measured with 40% overdrive                                          |     |     | 0,7  | ms   |
| Release time                  | measured with no coil excitation                                     |     |     | 0,05 | ms   |
| Capacity                      | @ 10 kHz across open switch                                          |     | 0,2 |      | 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        | 3   |               |     | kV DC |
| Insulation resistance Coil/Contact | RH <45%, 100 VDC test voltage | 100 |               |     | TOhm  |
| Capacity Coil/Contact              | @ 10 kHz                      |     | 0,6           |     | pF    |
| Case colour                        |                               |     | black         |     |       |
| Housing material                   |                               |     | PPE + PS      |     |       |
| Sealing compound                   |                               |     | Silicon       |     |       |
| Connection pins                    |                               |     | CuSn6, tinned |     |       |
| Magnetic Shield                    |                               |     | no            |     |       |
| Reach / RoHS conformity            |                               |     | yes           |     |       |



*Products for tomorrow...*

Europe: +49 / 7731 8399 0

| Email: info@meder.com

USA: +1 / 508 295 0771

| Email: salesusa@meder.com

Asia: +852 / 2955 1682

| Email: salesasia@meder.com

Item No.:

**3905171000**

Item:

**HI05-1A66**

**HI05-1A71**

| 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 |            |                                           | 2,9 |     | g    |
| Packaging    |            | Styrofoam tray, ESD neutral 100 pcs./each |     |     |      |

Modifications in the sense of technical progress are reserved

Designed at: 12.11.08 Designed by: MPOTUZAK

Approval at: 27.11.08 Approval by: DSTASTNY

Last Change at: 08.03.10 Last Change by: KOLBRICH

Approval at: 08.03.10 Approval by: KOLBRICH

Version: 05