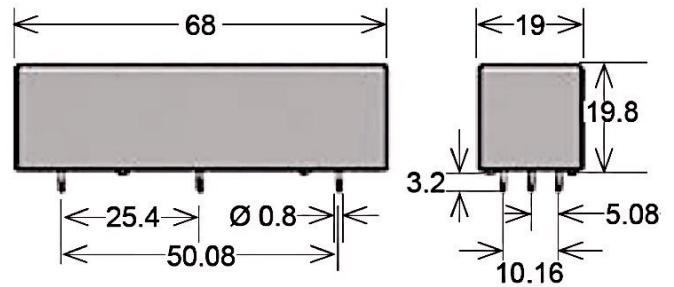


# HM Series Reed Relays



- Features: High Voltage Relay, Through-Hole / Axial Wire Option, Latching Version, Special Pin-Outs
- Applications: High Voltage Test Sets, Cable Testers, Medical Equipment & Others
- Markets: Medical, Test and Measurement & Others

Part-Description: **HM 00-0X00-000**

| Nominal Voltage | Contact QTY | Contact Form | Switch Model | Pin Out                               |
|-----------------|-------------|--------------|--------------|---------------------------------------|
| 05, 12, 24      | 1           | A, B         | 69, 83       | 02, 03, 06, 08, 26,<br>20-6, 150, 300 |

| Customer Options   | Switch Model     |                  | Unit |
|--|------------------|------------------|------|
|  | 69               | 83               |      |
| <b>Contact Data</b>  |                  |                  |      |
| <b>Rated Power (max.)</b><br>Any DC combination of V&A not to exceed their individual max.'s | 50               | 50               | W    |
| <b>Switching Voltage (max.)</b><br>DC or peak AC   | 10,000           | 7,500            | V    |
| <b>Switching Current (max.)</b><br>DC or peak AC   | 3.0              | 3.0              | A    |
| <b>Carry Current (max.)</b><br>DC or peak AC   | 5.0              | 5.0              | A    |
| <b>Contact Resistance (max.)</b><br>@ 0.5V & 50mA  | 150              | 150              | mOhm |
| <b>Breakdown Voltage (min.)</b><br>According to EN60255-5                                    | 15               | 10               | kVDC |
| <b>Operating Time (max.)</b><br>Incl. Bounce; Measured with w/ Nominal Voltage               | 3.0              | 3.0              | ms   |
| <b>Release Time (max.)</b><br>Measured with no Coil Excitation                               | 1.5              | 1.5              | ms   |
| <b>Insulation Resistance (typ.)</b><br>Rh<45%, 100V Test Voltage                             | 10 <sup>12</sup> | 10 <sup>12</sup> | Ohm  |
| <b>Capacitance (typ.)</b><br>@ 10kHz across open Switch                                      | 1                | 1                | pF   |

| Coil Data    |              | Coil Voltage<br>(nom.) | Coil Resistance<br>(typ.) | Pull-In Voltage<br>(max.) | Drop-Out Voltage<br>(min.) | Nominal Coil Power<br>(typ.) |
|--------------|--------------|------------------------|---------------------------|---------------------------|----------------------------|------------------------------|
| Contact Form | Switch Model |                        |                           |                           |                            |                              |
| Unit         |              | VDC                    | Ohm                       | VDC                       | VDC                        | mW                           |
| 1A           | 69           | 05                     | 30                        | 3.8                       | 0.5                        | 833                          |
|              |              | 12                     | 150                       | 9                         | 1                          | 960                          |
|              |              | 24                     | 600                       | 18                        | 2                          | 960                          |
|              | 83           | 05                     | 45                        | 3.8                       | 0.5                        | 556                          |
|              |              | 12                     | 250                       | 9                         | 1                          | 576                          |
|              |              | 24                     | 1,000                     | 18                        | 2                          | 576                          |
| 1B           | 69           | 05                     | 60                        | 3.8                       | 0.5                        | 556                          |
|              |              | 12                     | 150                       | 9                         | 1                          | 960                          |
|              |              | 24                     | 1,000                     | 18                        | 2                          | 576                          |
|              | 83           | 05                     | 45                        | 3.8                       | 0.5                        | 556                          |
|              |              | 12                     | 250                       | 9                         | 1                          | 576                          |
|              |              | 24                     | 1,000                     | 18                        | 2                          | 576                          |

The Pull-In / Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °C.

| Environmental Data                                     |           | Unit |
|--|-----------|------|
| Shock Resistance (max.)<br>1/2 sine wave duration 11ms | 50        | g    |
| Vibration Resistance (max.)                            | 20        | g    |
| Operating Temperature                                  | -20 to 70 | °C   |
| Storage Temperature                                    | -35 to 95 | °C   |
| Soldering Temperature (max.)<br>5 sec. max.            | 260       | °C   |

#### Handling & Assembly Instructions

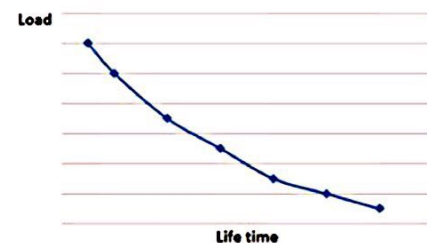
- Switching inductive and/or capacitive loads create voltage and/or current peaks, which may damage the relay. Protective circuits need to be used.
- External magnetic fields needs to be taken into consideration, including a too high packing density. This may influence the relays' electrical characteristics.
- Mechanical shock impacts e.g. dropping the relays may cause immediate or post-installation failure.
- Wave soldering: maximum 260°/5 seconds.
- Reflow soldering: Recommendations given by the soldering paste manufacturer need to be considered as well as the temperature limits of other components/processes.

#### HM Reed Relay



#### Life Test Data

\*Load increase reduces life expectancy of Reed Switches



| Glossary Contact Form |  |  |
|-----------------------|--|--|
| Form A                | NO = Normally Open Contacts<br>SPST = Single Pole Single Throw   |  |
| Form B                | NC = Normally Closed Contacts<br>SPST = Single Pole Single Throw |  |
| Form C                | Changeover<br>SPDT = Single Pole Double Throw                    |  |

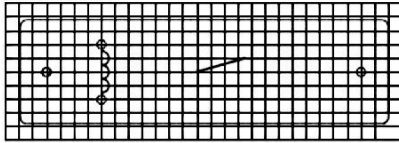


**Pin Out**

Top View

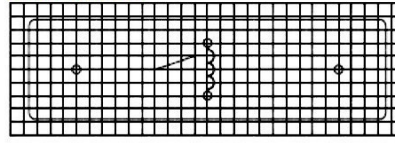
2.5mm [0.098"] pitch grid

HMxx-1Axx



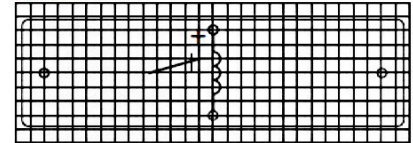
2.54mm [0.100"] pitch grid

HMxx-1Axx-02

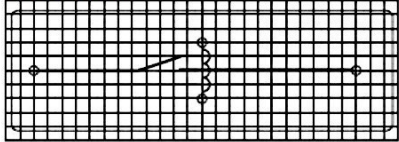


2.5mm [0.098"] pitch grid

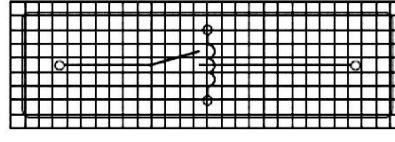
HMxx-1Bxx-06



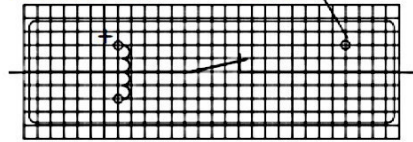
HMxx-1Axx-03



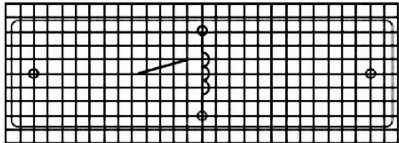
HMxx-1Axx-04



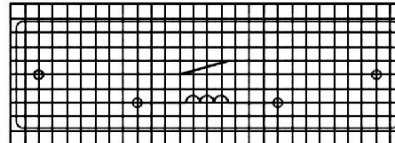
HMxx-1Bxx-105



HMxx-1Axx-06



HMxx-1Axx-08



HMxx-1Axx-150



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [standexmeder](#) manufacturer:*

Other Similar products are found below :

[HE12-1A69-02](#) [MK18-B-500W](#) [DIP05-1A72-12L](#) [CRF05-1AS](#) [HE06-1B83-150](#) [HE24-1A83](#) [SHV12-1A85-78L3K](#) [SIL05-1A72-71QHR](#)  
[NDFEB 8X15MM](#) [BE12-2A85-BV420](#) [KT12-1A-BV88589](#) [MK04-1A66B-500W](#) [DIP05-1A72-13L](#) [HM24-1A69-20-6](#) [HM12-1A83-06-UL](#)  
[MS05-1A87-75DHR](#) [H12-1B83](#) [KT12-1A-40L-THT](#) [SIL05-1A31-71L](#) [LI05-1A85](#) [NDFEB 10X5X1.9MM](#) [LS01-1A66-PP-500W](#) [M11/M8](#)  
[LS02-1A66-PP-500W](#) [NDFEB N35 4X2MM](#) [HM24-1A69-300](#) [LS02-1A66-PA-500W](#) [KT05-1A-40L-THT](#) [MK21M-1A66C-500W](#) [DIP24-](#)  
[1C90-51D](#) [SIL24-1A75-71L](#) [DIP12-1A72-12L](#) [ORD211-1015](#) [DIP12-2A72-21L](#) [H24-1A83](#) [MK17-C-3](#) [SHV12-1A85-78L4K](#) [DIP05-1C90-](#)  
[51D](#) [DIP24-1A72-12L](#) [HE24-1A83-02](#) [MK02/0-1A66-1000W](#) [DIL05-2C90-63L](#) [HM24-1A69-06](#) [HE06-1A16](#) [DIP24-1A31-16D](#) [MK03-](#)  
[1A66E-500W](#) [ALNICO500; 10X40MM](#) [LS01-1A66-PA-500W](#) [ORD228VL-2030](#) [DIP05-1C90-51L](#)