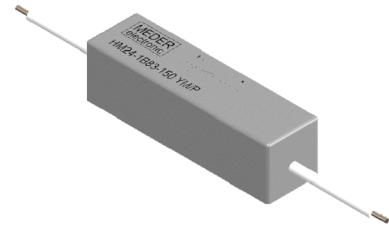
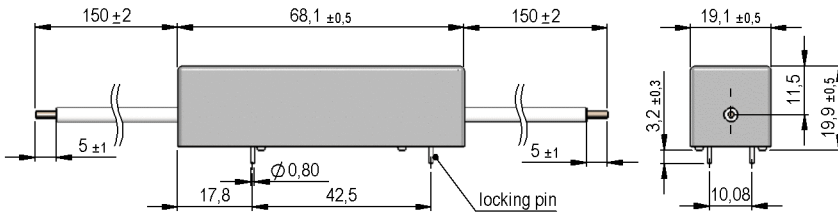


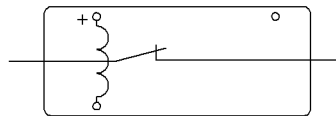
**Dimensions mm[inch]**  
 tolerances acc. to DIN ISO 2768-m  
 Toleranzen gem. DIN ISO 2768-m

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

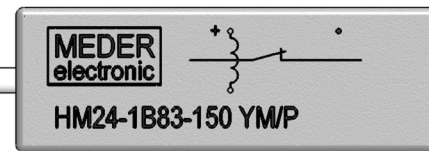


**Cable**  
 silicone high voltage wire AWG20  
 UL-Style 3239,  
 colour white  
 Hochspannung Silikonlitze AWG20  
 UL-Style 3239  
 Farbe weiss

**Layout**  
 Top view  
 Draufsicht



**Marking**  
 according to EN60062/Factory code  
 gem. EN60062/Fertigungsstätte



| Coil Data at 20 °C | Conditions   | Min | Typ   | Max   | Unit |
|--------------------|--|-----|-------|-------|------|
| Coil resistance    |  | 900 | 1.000 | 1.100 | Ohm  |
| Coil voltage       |  |     | 24    |       | VDC  |
| Rated power        |  |     | 576   |       | mW   |
| Thermal resistance | max. Relay temperature<br>= operating temperature + self heating |     | 24    |       | K/W  |
| Pull-In voltage    |  |     |       | 18    | VDC  |
| Drop-Out voltage   |  | 2   |       |       | VDC  |

| Contact data 83           | 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  |     |     | 7.500 | 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 EN 60255-5  | 10  |     |       | kV DC |
| Operate time incl. bounce | measured with 40% overdrive  |     |     | 3,2   | ms    |
| Release time              | measured with no coil excitation                                     |     |     | 1,5   | ms    |
| Capacitance               | @ 10 kHz across open switch  |     | 1   |       | pF    |

| Special Product Data               | Conditions                    | Min | Typ | Max  | Unit  |
|------------------------------------|-------------------------------|-----|-----|--|-------|
| Number of contacts                 |                               |     |     | 1  |       |
| Contact - form                     |                               |     |     | B - NC   |       |
| Dielectric Strength Coil/Contact   | according to EN 60255-5       | 15  |     |  | kV DC |
| Insulation resistance Coil/Contact | RH <45%, 200 VDC test voltage | 1   |     |  | TOhm  |
| Housing material                   |                               |     |     | Polycarbonat                                       |       |
| Sealing compound                   |                               |     |     | Polyurethan  |       |
| Connection pins                    |                               |     |     | Copper alloy tin plated                            |       |
| Reach / RoHS conformity            |                               |     |     | yes  |       |
| Cable type                         |                               |     |     | silicon high-voltage wire AWG20 Style 3239, 15kVDC |       |



*Products for tomorrow...*

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Item No.:  
**8424583150**  
Item:  
**HM24-1B83-150**

| 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                     |
|--------------|------------|-----|-----|-----|--------------------------|
| Packaging    |            |     |     |     | card board box a 10 pcs. |

Modifications in the sense of technical progress are reserved

Designed at: 27.07.04    Designed by: EBUNKE  
Last Change at: 14.08.12    Last Change by: WKOVACS

Approval at: 26.01.09    Approval by: KOLBRICH  
Approval at: 14.08.12    Approval by: CRUF

Version: 07