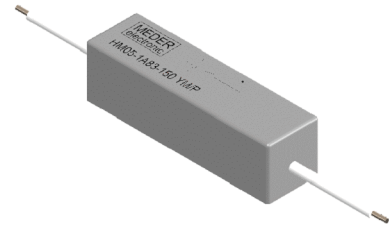
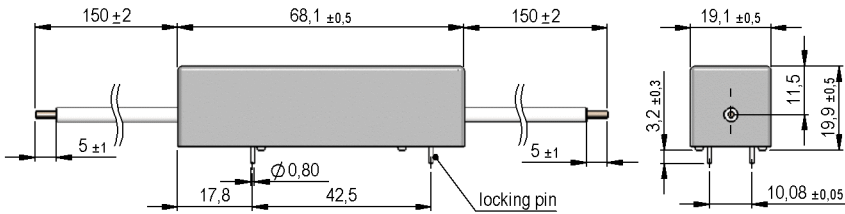


**Dimensions mm[inch]**  
 tolerances acc. to DIN ISO 2768-m  
 Toleranzen gem. DIN ISO 2768-m

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

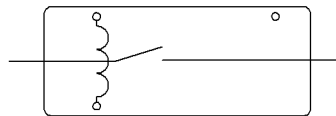


**Cable**

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

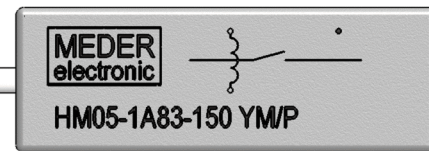
**Layout**

Top view  
 Draufsicht



**Marking**

according to EN60062/Factory code  
 gem. EN60062/Fertigungsstätte



| Coil Data at 20 °C | Conditions | Min | Typ | Max | Unit |
|--------------------|------------|-----|-----|-----|------|
| Coil resistance    |            | 40  | 45  | 50  | Ohm  |
| Coil voltage       |            |     | 5   |     | VDC  |
| Rated power        |            |     | 556 |     | mW   |
| Pull-In voltage    |            |     |     | 3,8 | VDC  |
| Drop-Out voltage   |            | 0,5 |     |     | VDC  |

| Contact data 83           | 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   |     |     | 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 Start Value                           |     |     | 150   | mOhm  |
| Insulation resistance     | RH <45 %, 100 V test voltage                                      | 1   |     |       | 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                                       |     | 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            | 10  |     |                         | kV DC |
| Insulation resistance Coil/Contact | RH <45%, 200 VDC measuring voltage | 1   |     |                         | TOhm  |
| Case colour                        |                                    |     |     | gray                    |       |
| Housing material                   |                                    |     |     | Polycarbonat            |       |
| Sealing compound                   |                                    |     |     | Polyurethan             |       |
| Connection pins                    |                                    |     |     | Copper alloy tin plated |       |
| Reach / RoHS conformity            |                                    |     |     | yes                     |       |



*Products for tomorrow...*

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Item No.:  
**8405183150**  
Item:  
**HM05-1A83-150**

| Environmental data    | Conditions                         | Min | Typ | Max | Unit         |
|-----------------------|------------------------------------|-----|-----|-----|--------------|
| Shock                 | 1/2 sine, duration 11ms, in 3 axis |     |     | 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 |            |     | 50  |     | g  |
| Packaging    |            |     |     |     | carton- box with spacing paper a 10 pcs. |

Modifications in the sense of technical progress are reserved

Designed at: 17.07.10    Designed by: SWANG  
Last Change at: 14.05.12    Last Change by: WKOVACS

Approval at: 11.05.12    Approval by: CRUF  
Approval at: 14.05.12    Approval by: CRUF

Version: 02