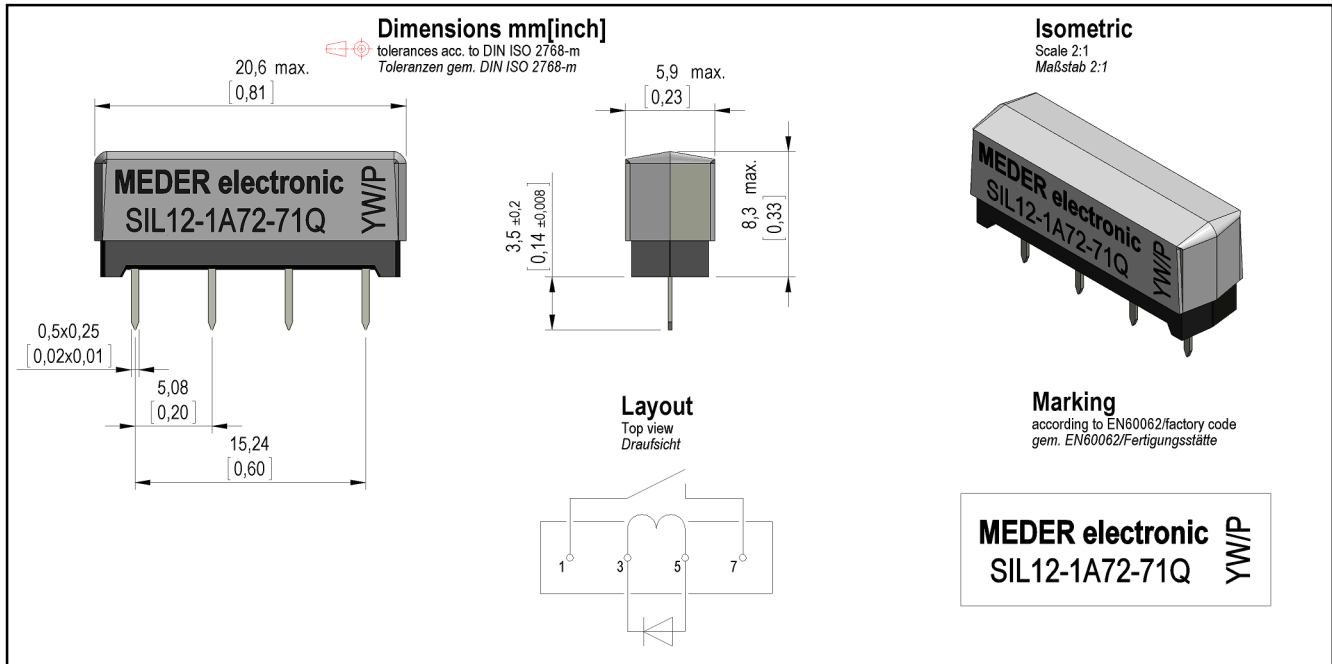


*Products for tomorrow...*

## Preliminary Datasheet



| Coil Data at 20 °C | Conditions   | Min | Typ   | Max   | Unit |
|--------------------|--|-----|-------|-------|------|
| Coil resistance    |  | 990 | 1.000 | 1.100 | Ohm  |
| Coil voltage       |  |     | 12    |       | VDC  |
| Rated power        |  |     | 144   |       | mW   |
| Thermal resistance | max. Relay temperature<br>= operating temperature + self heating |     | 109   |       | K/W  |
| Pull-In voltage    |  |     |       | 8,4   | VDC  |
| Drop-Out voltage   |  | 1,8 |       |       | 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   | 10  |     |      | GOhm |
| Breakdown voltage         | 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  |     | 0,3 |      | pF   |

| Special Product Data               | Conditions                         | Min                                       | Typ | Max | Unit  |
|------------------------------------|------------------------------------|---|-----|-----|-------|
| Dielectric Strength Coil/Contact   | according to EN 60255-5            | 1,5                                       |     |     | kV DC |
| Insulation resistance Coil/Contact | RH <45%, 200 VDC measuring voltage | 100                                       |     |     | GOhm  |
| Capacity Coil/Contact              | @ 10 kHz                           |   | 0,7 |     | pF    |
| Housing material                   |                                    | epoxy resin                               |     |     |       |
| Connection pins                    |                                    | CuFe2P, tin plated                        |     |     |       |
| Magnetic Shield                    |                                    | yes                                       |     |     |       |
| Approval                           |                                    | UL-File No. NRNT2.E156887 / NRNT8.E156887 |     |     |       |
| Reach / RoHS conformity            |                                    | yes                                       |     |     |       |

Modifications in the sense of technical progress are reserved

Designed at: 08.03.04    Designed by: SCHELLHORN    Approval at: 25.07.11    Approval by: CRUF  
 Last Change at: 22.09.11    Last Change by: THAUKE    Approval at:    Approval by:



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Item No.:  
**3312172371**  
Item:  
**SIL12-1A72-71Q**

## Preliminary Datasheet

| 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   |                                    | -35 |     | 95  | °C           |
| Soldering temperature | wave soldering max. 5 sec.         |     |     | 260 | °C           |
| Washability           |                                    |     |     |     | fully sealed |

| General data | Conditions | Min | Typ | Max | Unit             |
|--------------|------------|-----|-----|-----|------------------|
| Total weight |            |     | 2,4 |     | g                |
| Packaging    |            |     |     |     | tube per 25 pcs. |

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Last Change at: 22.09.11    Last Change by: THAUKE

Approval at: 25.07.11    Approval by: CRUF  
Approval at:                      Approval by:

Version: 2