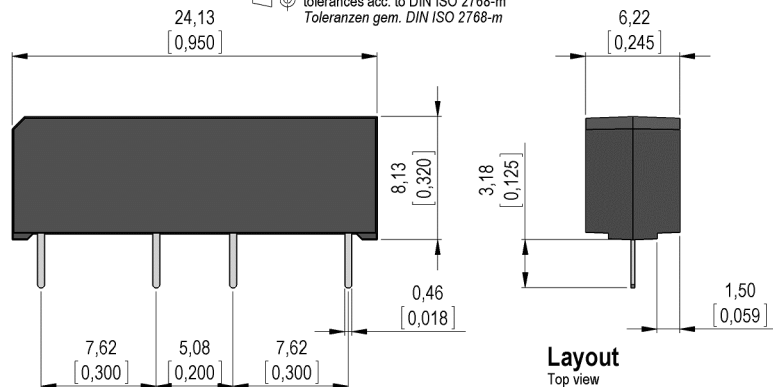
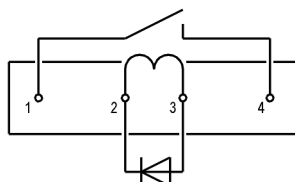


# Dimensions mm[inch]

tolerances acc. to DIN ISO 2768-m  
Toleranzen gem. DIN ISO 2768-m



Layout  
Top view  
Draufsicht



# Isometric

Scale 1:1  
Maßstab 1:1



# Marking

according to EN60062/factory code  
gem. EN60062/Fertigungsstätte

Standex-Meder  
SHV12-1A85-78D4K  
1

YW/P

| Coil Data at 20 °C | Conditions | Min | Typ | Max | Unit |
|--------------------|------------|-----|-----|-----|------|
| Coil resistance    |            | 450 | 500 | 550 | Ohm  |
| Coil voltage       |            |     | 12  |     | VDC  |
| Rated power        |            |     | 288 |     | mW   |
| Pull-In voltage    |            |     |     | 8,4 | VDC  |
| Drop-Out voltage   |            | 1,8 |     |     | VDC  |

| Contact Data 85            | Conditions                                                           | Min | Typ | Max   | Unit  |
|----------------------------|----------------------------------------------------------------------|-----|-----|-------|-------|
| Contact rating             | Any DC combination of V & A<br>not to exceed their individual max.'s |     |     | 100   | W     |
| Switching voltage          | DC or Peak AC                                                        |     |     | 1.000 | V     |
| Switching current          | DC or Peak AC                                                        |     |     | 1     | A     |
| Carry current              | DC or Peak AC<br>100% Duty Cycle                                     |     |     | 2,5   | A     |
| Pulsed carry current       | DC or Peak AC<br>5ms after coil excitation for 50ms max.             |     |     | 3     | A     |
| Contact resistance static  | Measured with 40% overdrive                                          |     |     | 150   | mOhm  |
| Contact resistance dynamic | Maximum value 1,5 ms after excitation                                |     |     | 200   | mOhm  |
| Insulation resistance      | RH <45 %, 100 V test voltage                                         | 10  |     |       | GOhm  |
| Breakdown voltage          |                                                                      | 4   |     |       | kV DC |
| Operate time incl. bounce  | measured with 40% overdrive                                          |     |     | 1,1   | ms    |
| Release time               | measured with no coil suppression                                    |     |     | 0,1   | ms    |
| Capacitance                | @ 10 kHz across open switch                                          |     | 0,5 |       | pF    |

| Special Product Data             | Conditions              | Min                      | Typ | Max | Unit  |
|----------------------------------|-------------------------|--------------------------|-----|-----|-------|
| Dielectric Strength Coil/Contact | according to EN 60255-5 | 4                        |     |     | kV DC |
| Housing material                 |                         | epoxy resin              |     |     |       |
| Connection pins                  |                         | FeNi42, tin plated       |     |     |       |
| Magnetic Shield                  |                         | Internal Mu Metal Shield |     |     |       |
| Reach / RoHS conformity          |                         | yes                      |     |     |       |



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Item No.:

**3312185778**

Item:

**SHV12-1A85-78D4K**

**SIL12-1A85-78D4K**

| 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 |                                    | -40          |     | 105 | °C   |
| Storage temperature   |                                    | -40          |     | 125 | °C   |
| Soldering temperature | wave soldering max. 5 sec.         |              |     | 260 | °C   |
| Washability           |                                    | fully sealed |     |     |      |

| General data | Conditions | Min              | Typ | Max | Unit |
|--------------|------------|------------------|-----|-----|------|
| Packaging    |            | Tube per 20 pcs. |     |     |      |

Modifications in the sense of technical progress are reserved

Designed at: 09.09.13 Designed by: ABURGESS

Approval at: 04.09.14 Approval by: DSTASTNY

Last Change at: 05.06.15 Last Change by: THAUKE

Approval at: 09.06.15 Approval by: JHEYDER

Version: 2

# Mouser Electronics

Authorized Distributor

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