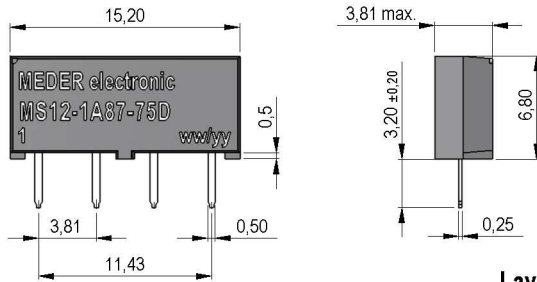
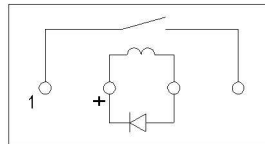


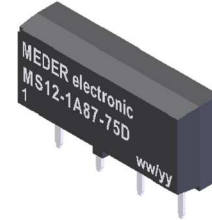
Dimensions mm[inch]
 tolerances acc. to DIN ISO 2768-m
 Toleranzen gem. DIN ISO 2768-m



Layout
 Top view
 Draufsicht



Isometric
 Scale 1:2
 Maßstab 1:2



Marking
 according to EN60062/factory code
 gem. EN60062/Fertigungsstätte



| Coil Data at 20 °C | Conditions | Min | Typ | Max | Unit |
|--------------------|------------|-----|-----|-----|------|
| Coil resistance | | 630 | 700 | 770 | Ohm |
| Coil voltage | | | 12 | | VDC |
| Rated power | | | 205 | | mW |
| Pull-In voltage | | | | 8,4 | VDC |
| Drop-Out voltage | | 1,8 | | | VDC |

| Contact data 87 | Conditions | Min | Typ | Max | Unit |
|----------------------------|---|-----|-----|-----|------|
| Contact rating | Any DC combination of V & A 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 Start Value | | | 150 | mOhm |
| Contact resistance dynamic | Maximum value 1,5 ms after excitation Start Value | | | 200 | mOhm |
| Contact resistance dynamic | Difference value 1,5 ms after excitation | | | 20 | mOhm |
| Insulation resistance | RH <45 %, 100V - to all points | 1 | 100 | | GOhm |
| Breakdown voltage | according to EN 60255-5 | 230 | | | VDC |
| Operate time incl. bounce | measured with 40% overdrive | | | 0,6 | ms |
| Release time | measured with no coil excitation | | | 0,1 | ms |
| Capacitance | @ 10 kHz across open switch | | 0,2 | | 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 | 1,5 | | | kV DC |
| Insulation resistance Coil/Contact | RH <45%, 200 VDC Measuring Voltage | 10 | | | TOhm |
| Case colour | | | | black | |
| Housing material | | | | epoxy resin | |
| Connection pins | | | | FeNi-alloy tin plated | |
| Magnetic Shield | | | | no | |
| Reach / RoHS conformity | | | | yes | |



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Item No.:

4212187175

Item:

MS12-1A87-75D

| 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 |
|--------------|------------|-----|-----|-----|--------------|
| Packaging | | | | | Plastic tube |

Modifications in the sense of technical progress are reserved

Designed at: 27.01.11 Designed by: CRUF

Approval at: 18.01.16 Approval by: DSTASTNY

Last Change at: Last Change by:

Approval at: Approval by:

Version: 02

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