



| Coil Data at 20 °C | Conditions   | Min | Typ  | Max | Unit |
|--------------------|--|-----|------|-----|------|
| Coil resistance    |  | 200 | 220  | 240 | Ohm  |
| Coil voltage       |  |     | 5    |     | VDC  |
| Rated power        |  |     | 114  |     | mW   |
| Coil current       |  |     | 22,7 |     | mA   |
| Thermal resistance | max. Relay temperature<br>= operating temperature + self heating |     | 78   |     | K/W  |
| Inductance         |  |     | 42   |     | mH   |
| Pull-In voltage    |  |     |      | 2   | VDC  |
| Drop-Out voltage   |  | 0,5 |      |     | 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     |
| Pulsed carry current         | DC or Peak AC<br>5ms after coil excitation for 50ms max.             |     |     | 3     | A     |
| Carry current                | DC or Peak AC<br>100% Duty Cycle                                     |     |     | 2,5   | A     |
| Contact resistance static    | Measured with 40% overdrive  |     |     | 150   | mOhm  |
| Insulation resistance        | RH <45 %, 100 V test voltage   | 10  |     |       | TOhm  |
| Breakdown voltage (20-30 AT) | according to IEC 255-5   | 2   |     |       | kV DC |
| Operate time incl. bounce    | measured with 40% overdrive  |     |     | 1,1   | 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 IEC 255-5        | 2   |                       |     | kV DC |
| Insulation resistance Coil/Contact | RH <45%, 200 VDC test voltage | 5   |                       |     | TOhm  |
| Capacity Coil/Contact              | @ 10 kHz                      |     | 1                     |     | pF    |
| Case colour                        |                               |     | black                 |     |       |
| Housing material                   |                               |     | Nylon 6/6             |     |       |
| Sealing compound                   |                               |     | Polyurethan           |     |       |
| Connection pins                    |                               |     | FeNi-alloy tin plated |     |       |
| Magnetic Shield                    |                               |     | yes                   |     |       |
| Reach / RoHS conformity            |                               |     | yes                   |     |       |

Modifications in the sense of technical progress are reserved

Designed at: 04.09.08    Designed by: RPYPEC    Approval at: 04.09.08    Approval by: TLANE  
 Last Change at: 13.08.09    Last Change by: KSCHIELENSKI    Approval at: 25.08.09    Approval by: KOLBRICH    Version: 04



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Europe: +49 / 7731 8399 0 | Email: info@meder.com  
USA: +1 / 508 295 0771 | Email: salesusa@meder.com  
Asia: +852 / 2955 1682 | Email: salesasia@meder.com

Item No.:  
**3305185276**  
Item:  
**SIL05-1A85-76L2K**

| Special Product Data | Conditions | Min | Typ | Max | Unit |
|----------------------|------------|-----|-----|-----|------|
| Approval             |            |     |     |     |      |

| 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   |                             | -20          |     | 90  | °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 19 piece |     |     |      |

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