

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

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

**Layout**  
Top view  
 Draufsicht

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

**MEDER electronic**  
 SIL05-1A31-71D  
 + YW

Coil Data at 20 °C	Conditions	Min	Typ	Max	Unit
Coil resistance		72	80	88	Ohm
Coil voltage			5		VDC
Rated power			312		mW
Thermal resistance	max. Relay temperature = operating temperature + self heating		109		K/W
Pull-In voltage				3,5	VDC
Drop-Out voltage		0,75			VDC

Contact data 31	Conditions	Min	Typ	Max	Unit
Contact-material	independent on position	Hg			
Switching suitability		bounce free			
Contact rating	Any DC combination of V & A up to 500V max. 50W, with 1000V max. 5W			50	W
Switching voltage	DC or Peak AC			500	V
Switching current	DC or Peak AC			2	A
Carry current	DC or Peak AC			2	A
Contact resistance static	Measured with 40% overdrive Start Value			80	mOhm
Contact resistance dynamic	Maximum value 1,5 ms after excitation Start Value			130	mOhm
Insulation resistance	RH <45 %, 100 V test voltage	100			GOhm
Breakdown voltage	according to IEC 255-5	1.500			VDC
Operate time incl. bounce	measured with 40% overdrive			1,2	ms
Release Time	measured with no coil excitation			1	ms
Capacity	@ 10 kHz across open switch		0,3		pF

Special Product Data	Conditions	Min	Typ	Max	Unit
Contact - form		A - NO			
Dielectric Strength Coil/Contact	according to IEC 255-5	2			kV DC
Insulation resistance Coil/Contact	RH <45%, 200 VDC measuring voltage	1			TOhm
Case colour		black			
Housing material		epoxy resin			
Connection pins		FeNi-alloy tin plated			

Environmental data	Conditions	Min	Typ	Max	Unit
Shock	1/2 sine, duration 11 ms, in 3 axis			50	g



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Item No.:  
**3305131171**  
Item:  
**SIL05-1A31-71D**

Environmental data	Conditions	Min	Typ	Max	Unit
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			1,7		g
Packaging		25 pcs. per tube			

Modifications in the sense of technical progress are reserved

Designed at: 11.09.07    Designed by: THAUKE  
Last Change at: 03.03.11    Last Change by: THAUKE

Approval at: 03.03.11    Approval by: CRUF  
Approval at:                    Approval by:

Version: 3