

*Products for tomorrow...*

**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**  
**SIL12-1A31-71L** 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 31	Conditions	Min	Typ	Max	Unit
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
Insulation resistance	RH <45 %, 100 V test voltage	100			GOhm
Breakdown voltage	according to EN 60255-5	2			kV DC
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
Number of contacts				1	
Contact - form				A - NO	
Dielectric Strength Coil/Contact	according to EN 60255-5	2			kV DC
Insulation resistance Coil/Contact	40°C, 95% R.H.	1			TOhm
Housing material				epoxy resin	
Connection pins				FeNi-alloy tin plated	
Reach / RoHS conformity				no	
Approval				UL File No. NRNT2.E156887	
Approval				UL File No. NRNT8.E156887	

Environmental data	Conditions	Min	Typ	Max	Unit
Shock	1/2 sine wave duration 11ms			50	g
Vibration	from 10 - 2000 Hz			20	g

Modifications in the sense of technical progress are reserved

Designed at: 06.09.07 Designed by: THAUKE  
 Last Change at: 14.09.12 Last Change by: NMIHAI

Approval at: 06.09.07 Approval by: RRIPLL  
 Approval at: 18.09.12 Approval by: CRUF



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Item No.:  
**3312131071**  
Item:  
**SIL12-1A31-71L**

Environmental data	Conditions	Min	Typ	Max	Unit
Operating temperature		-20		70	°C
Storage temperature		-35		95	°C
Soldering temperature	wave soldering max. 5 sec.			260	°C
Washability			fully sealed		

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