

## Preliminary Datasheet

### Dimensions

### Layout 12D Pitch 2.54 / Top View

### Marking

Type - Layout  
 Production-Code  
 EN60062

MEDER electronic  
 DIP12-1A31-12D YW

unspecified tolerances ± 0.1mm  
 nicht spezifizierte Toleranzen ± 0.1mm

Coil Data at 20 °C	Conditions	Min	Typ	Max	Unit
Coil resistance		360	400	440	Ohm
Coil voltage			12		VDC
Rated power			360		mW
Coil current			30		mA
Thermal resistance	max. Relay temperature = operating temperature + self heating		105		K/W
Inductance			32		mH
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	1,5			TOhm
Breakdown voltage	according to IEC 255-5	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		0,4		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	40 °C, 95% R.H.	5			TOhm
Capacity Coil/Contact	@ 10 kHz		0,8		pF
Case colour			black		
Housing material			epoxy resin		
Connection pins			Copper alloy tin plated		
Magnetic Shield			no		
Reach / RoHS conformity			no		
Approval			UL File No. NRNT2.E156887		
Approval			UL File No. NRNT8.E156887		

Modifications in the sense of technical progress are reserved

Designed at: 13.09.07    Designed by: THAUKE  
 Last Change at: 20.07.10    Last Change by: WKOVACS

Approval at: 13.09.07    Approval by: RRIPL  
 Approval at:                      Approval by:

Version: 04



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Item No.:  
**3212131112**  
Item:  
**DIP12-1A31-12D**

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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		-35		95	°C
Soldering temperature	wave soldering max. 5 sec.			260	°C
Washability					fully sealed

General data	Conditions	Min	Typ	Max	Unit
Total weight			2		g
Packaging					Tube per 25 piece

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Version: 04