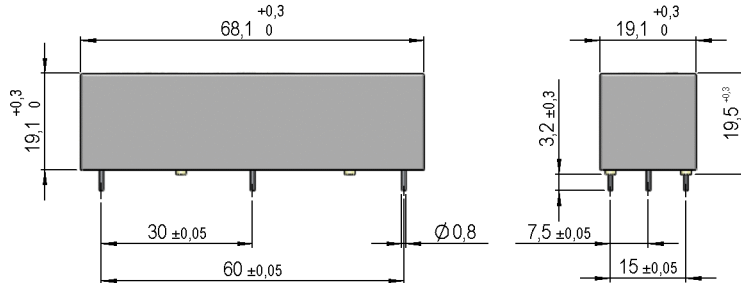


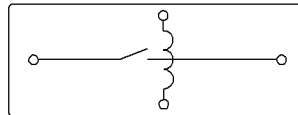
**Dimensions (mm)**

tolerances according to DIN ISO 2768-m  
 Toleranzen gem. DIN ISO 2768-m



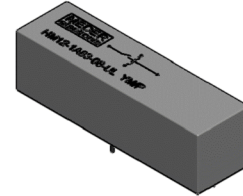
**Layout**

Top View  
 Draufsicht



**Isometric**

Scale 1:2  
 Masstab 1:2



**Marking**

according to EN60062/factory code  
 gem. EN60062/Fertigungsstätte



Coil Data at 20 °C	Conditions	Min	Typ	Max	Unit
Coil resistance		225	250	275	Ohm
Coil voltage			12		VDC
Rated power			576		mW
Thermal resistance	max. Relay temperature = operating temperature + self heating		24		K/W
Pull-In voltage				9	VDC
Drop-Out voltage		1			VDC

Contact data 83	Conditions	Min	Typ	Max	Unit
Contact rating	Any DC combination of V & A not to exceed their individual max.'s			50	W
Switching voltage	DC or Peak AC			7.500	V
Switching current	DC or Peak AC			3	A
Carry current	DC or Peak AC			5	A
Contact resistance static	Measured with 40% overdrive Start Value			150	mOhm
Insulation resistance	RH <45 %, 100 V test voltage	10			TOhm
Breakdown voltage	according to IEC 255-5	10			kV DC
Operate time incl. bounce	measured with 40% overdrive			3,2	ms
Release time	measured with no coil excitation			1,5	ms
Capacitance	@ 10 kHz across open switch		1		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	15			kV DC
Insulation resistance Coil/Contact	RH <45%, 200 VDC test voltage	10			TOhm
Case colour				gray	
Housing material				Lexan 141R / GE	
Sealing compound				Polyurethan	
Mounting or coil material				CELANEX PBT	
Connection pins				Copper alloy, tin plated	
Magnetic Shield				no	
Reach / RoHS conformity				yes	



*Products for tomorrow...*

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.:  
**8412183806**  
Item:  
**HM12-1A83-06-UL**

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		105	°C
Soldering temperature	wave soldering max. 5 sec.			260	°C
Washability					fully sealed

General data	Conditions	Min	Typ	Max	Unit
Total weight			50		g
Packaging					carton pallet, 10 pcs./each

Modifications in the sense of technical progress are reserved

Designed at: 21.03.03    Designed by: EBUNKE  
Last Change at: 06.05.11    Last Change by: WKOVACS

Approval at: 14.06.10    Approval by: KOLBRICH  
Approval at: 06.05.11    Approval by: CRUF

Version: 06