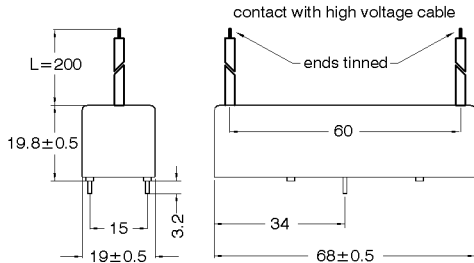
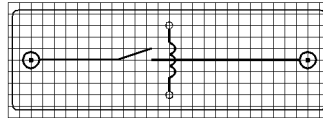


DIMENSIONS (mm)



LAYOUT

pitch 2.5 mm/Top view



MARKING



PINS

Pins: Ø0.8 mm  
 L<sub>pin</sub> = 3.2±0.3 mm  
 Material: Cu-alloy tinned



CABLE

AWG20  
 High-voltage silicone wire  
 UL-Style 3239  
 p/n 4001101015  
 L = 200 mm

MARKING

MEDER-Label  
 Type/Layout  
 Production code,  
 EN60062/Factory code

Coil Data at 20 °C	Conditions	Min	Typ	Max	Unit
Coil resistance		135	150	165	Ohm
Coil voltage			12		VDC
Rated power			960		mW
Coil current			80		mA
Thermal resistance			24		K/W
Inductance			200		mH
Pull-In voltage				9	VDC
Drop-Out voltage		1			VDC

Contact data 69	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			10,000	V
Switching current	DC or Peak AC			3	A
Carry current	DC or Peak AC			5	A
Contact resistance static	measured with nominal voltage at 20 °C			150	mOhm
Insulation resistance	RH <45 %, 100 V test voltage	10			TOhm
Breakdown voltage	according to IEC 255-5	15			kV DC
Operate time incl. bounce	measured with nominal voltage at 20 °C			3	ms
Release time	measured with no coil excitation			1,5	ms
Capacity			0,5		pF

Special Product Data	Conditions	Min	Typ	Max	Unit
Number of contacts					
Contact - form					
Insulation resistance Coil/Contact	RH <45%, 200 VDC test voltage	10			TOhm
Insulation voltage Coil/Contact	according to IEC 255-5	20			kV DC
Capacity Coil/Contact	@ 10 kHz		2,5		pF
Case colour					
Housing material				Polycarbonat	
Sealing compound				Polyurethan	
Connection pins				Copper alloy tin plated	
Magnetic Shield					
Reach / RoHS conformity				yes	



*Products for tomorrow...*

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Asia: +852 / 2955 1682 | Email: salesasia@meder.com

Item No.:  
**8412169206**  
Item:  
**HM12-1A69-20-6**

Environmental data	Conditions	Min	Typ	Max	Unit
Shock	1/2 sine wave duration 11ms			50	g
Vibration	from 10 - 2000 Hz			20	g
Ambient temperature		-20		70	°C
Storage temperature		-35		105	°C
Soldering temperature	wave soldering max. 5 sec.			260	°C

General data	Conditions	Min	Typ	Max	Unit
Total weight			50		g
Packaging					

Modifications in the sense of technical progress are reserved

Designed at: 06.07.04    Designed by: EBUNKE    Approval at: 27.01.09    Approval by: KOLBRICH  
Last Change at: 11.11.09    Last Change by: SERVICES\_EUROPE    Approval at: 12.11.09    Approval by: KOLBRICH

Version: 05