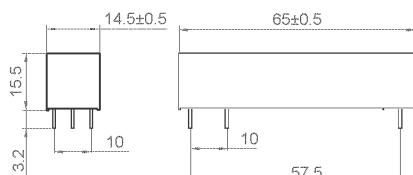


### DIMENSIONS (mm)



### LAYOUT

pitch 2.5 mm/Top view



### MARKING



### PINS

Pins: Ø0.8 mm  
 L = 3.2±0.3 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
Thermal resistance	max. Relay temperature = operating temperature + self heating		26		K/W
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 40% overdrive Start Value			150	mOhm
Insulation resistance	RH <45 %, 100 V test voltage	10			GOhm
Breakdown voltage	according to EN 60255-5	15			kV DC
Operate time incl. bounce	measured with 40% overdrive			3	ms
Release time	measured with no coil excitation			1,5	ms
Capacitance	@ 10 kHz across open switch		0,8		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	10			kV DC
Insulation resistance Coil/Contact	RH <45%, 200 VDC test voltage	1			TOhm
Housing material			Polycarbonat		
Sealing compound			Polyurethan		
Connection pins			Copper alloy tin plated		
Reach / RoHS conformity			yes		

Modifications in the sense of technical progress are reserved

Designed at: 24.08.09 Designed by: WKOVACS  
 Last Change at: 02.12.10 Last Change by: KSTOPPEL

Approval at: 17.09.09 Approval by: KOLBRICH  
 Approval at: 23.09.11 Approval by: CRUF

Version: 03



Products for  
tomorrow...

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

Item No.:

**8512169000**

Item:

**HE12-1A69**

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
Packaging				VPE	

Modifications in the sense of technical progress are reserved

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Version: 03