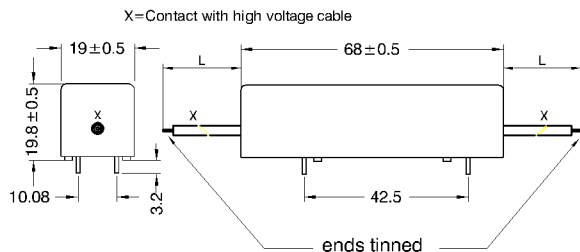
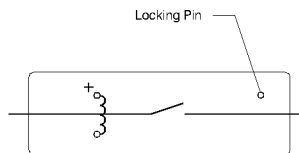


**DIMENSIONS (mm)**

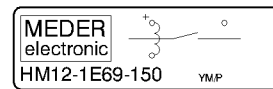


**LAYOUT**

Top view



**MARKING**



**PINS**

Pins: Ø0.8 mm  
 L = 3.2±0.3 mm  
 Material: Cu-alloy tinned

**CABLE**

High Voltage silicon cable AWG20  
 UL-Style 3239  
 P/N 4001101015  
 L = 150 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		24		K/W
Pull-In voltage				9	VDC
Drop-Out voltage				9	VDC

Contact data 69	Conditions	Min	Typ	Max	Unit
Contact-form		E - bistable NO			
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	1			TOhm
Breakdown voltage	according to IEC 255-5	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		
Dielectric Strength Coil/Contact	according to IEC 255-5	15			kV DC
Insulation resistance Coil/Contact	RH <45%, 200 VDC test voltage	1			TOhm
Case colour			gray		
Housing material			Polycarbonat		
Sealing compound			Polyurethan		
Connection pins			Copper alloy tin plated		
Reach / RoHS conformity			yes		



*Products for tomorrow...*

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Item No.:  
**8412669150**  
Item:  
**HM12-1E69-150**

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
Remarks		in the operation of this latching relay the contact			
Remarks 1.		is closed by using a positive pulse (>2ms) to the "+"			
Remarks 2.		pole of the coil. This condition is maintained			
Remarks 3.		□ □ until the coil receives a negative pulse (>2ms)			
Total weight			40		g
Packaging		10 pcs HM-relay box - cable version			

Modifications in the sense of technical progress are reserved

Designed at: 24.04.09    Designed by: MPOTUZAK  
Last Change at: 20.04.10    Last Change by: WKOVACS

Approval at: 24.04.09    Approval by: DSTASTNY  
Approval at: 22.04.10    Approval by: KOLBRICH

Version: 04