

Dimensions (mm)
 tolerances according to DIN ISO 2768-m
 Toleranzen gem. DIN ISO 2768-m

150, 68,1 ± 0,5, 150, 5 ± 1, 42,5 ± 0,05, locking pin, 19,1 ± 0,5, 3,2 ± 0,3, 11,5, 19,8 ± 0,5, 10,08 ± 0,05

Isometric
 Scale 1:2
 Massstab 1:2

Cable
 silicone high voltage wire AWG20
 UL-Style 3239
 colour white

Terminals
 ends tinned
 Enden verzinkt

Layout
 Top View
 Draufsicht

Marking
 according to EN60062/factory code
 gem. EN60062/Fertigungsstätte

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		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			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	
Contact - form				B - NC	
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				Polycarbonat	
Sealing compound				Polyurethan	
Connection pins				Copper alloy tin plated	
Reach / RoHS conformity				yes	



Products for tomorrow...

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Item No.:
8412569150
Item:
HM12-1B69-150

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		-25		85	°C
Soldering temperature	wave soldering max. 5 sec.			260	°C
Washability					fully sealed

General data	Conditions	Min	Typ	Max	Unit
Total weight			53		g
Packaging					Cardboard Box 10pcs/each

Modifications in the sense of technical progress are reserved

Designed at: 07.10.08 Designed by: WKOVACS
Last Change at: 06.05.11 Last Change by: WKOVACS

Approval at: 14.10.08 Approval by: KOLBRICH
Approval at: 06.05.11 Approval by: CRUF

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