



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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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
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