

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		234	260	286	Ohm
Coil voltage			12		VDC
Rated power			554		mW
Coil current			46		mA
Thermal resistance	max. Relay temperature = operating temperature + self heating		26		K/W
Inductance			240		mH
Pull-In voltage				9	VDC
Drop-Out voltage		1			VDC

Contact data 83	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			7.500	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	10			kV DC
Operate time incl. bounce	measured with 40% overdrive			3,2	ms
Release time	measured with no coil excitation			1,5	ms
Capacitance	@ 10 kHz across open switch		0,7		pF

Special Product Data	Conditions	Min	Typ	Max	Unit
Number of contacts				1	
Contact - form				A - NO	
Dielectric Strength Coil/Contact	according to IEC 255-5	7,5			kV DC
Insulation resistance Coil/Contact	RH <45%, 200 VDC test voltage	1			TOhm
Capacity Coil/Contact	@ 10 kHz		3,1		pF
Case colour				gray	
Housing material				Polycarbonat	
Sealing compound				Polyurethan	
Connection pins				Copper alloy tin plated	
Magnetic Shield				no	
Reach / RoHS conformity				yes	

Modifications in the sense of technical progress are reserved

Designed at: 11.02.08 Designed by: WKOVACS
 Last Change at: 07.06.10 Last Change by: KOLBRICH

Approval at: 06.03.08 Approval by: KOLBRICH
 Approval at: 07.06.10 Approval by: KOLBRICH

Version: 05



Products for tomorrow...

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Item No.:
8512183003
Item:
HE12-1A83-03

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
Total weight			27		g
Packaging		styrofoam tray ESD neutral per 25 piece			

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