

## Preliminary Datasheet

**Dimensions mm[inch]**  
tolerances acc. to DIN ISO 2768-m  
 Toleranzen gem. DIN ISO 2768-m

**Isometric**  
Scale 1:1  
 Maßstab 1:1

**Test circuit**

**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		450	500	550	Ohm
Coil voltage			5		VDC
Rated power			50		mW
Pull-In voltage				3,8	VDC
Drop-Out voltage		1			VDC

Contact Data 85	Conditions	Min	Typ	Max	Unit
Contact-form			A		
Contact rating	Any DC combination of V & A not to exceed their individual max.'s			100	W
Switching voltage	DC or Peak AC			1.000	V
Switching current	DC or Peak AC			1	A
Carry current	DC or Peak AC 100% Duty Cycle			2,5	A
Pulsed carry current	DC or Peak AC 5ms after coil excitation for 50ms max.			3	A
Contact resistance static	Measured with 40% overdrive			150	mOhm
Insulation resistance	RH <45 %, 100 V test voltage	10			GOhm
Breakdown voltage	acc.to EN 60255-5	1.500			VDC
Operate time incl. bounce	measured with 40% overdrive			1,1	ms
Release time	measured with no coil suppression			0,1	ms
Capacitance	@ 10 kHz across open switch		0,5		pF

Special Product Data	Conditions	Min	Typ	Max	Unit
Number of contacts			2		
Contact - form			A - NO		
Dielectric Strength Coil/Contact	according to EN 60255-5	1,5			kV DC
Insulation resistance Coil/Contact	RH <45%, 200 VDC Measuring Voltage	100			GOhm
Dielectric Strength Contact/Contact	according to EN 60255-5	1,5			kV DC
Insulating voltage Case/Contact	at 2 sec.	1,5			kV DC
Thermal offset voltage				1	µV
Case colour			silver metallic		
Housing material			Metal		
Sealing compound			Polyurethan		
Connection pins			Copper alloy tin plated		
Magnetic Shield			no		
Reach / RoHS conformity			yes		

Environmental data	Conditions	Min	Typ	Max	Unit
--------------------	------------	-----	-----	-----	------

Modifications in the sense of technical progress are reserved

Designed at: 20.07.17    Designed by: WKOVACS  
 Last Change at:                      Last Change by:

Approval at:                              Approval by:  
 Approval at:                              Approval by:

Version: 01



Europe: +49 / 7731 8399 0 | Email: info@standexmeder.com  
USA: +1 / 508 295 0771 | Email: salesusa@standexmeder.com  
Asia: +852 / 2955 1682 | Email: salesasia@standexmeder.com

Item No.:  
**8805285856**  
Item:  
**BT05-2A85-M**

### Preliminary Datasheet

Environmental data	Conditions	Min	Typ	Max	Unit
Shock	1/2 sine, duration 11ms, in 3 axis			50	g
Vibration	from 10 - 2000 Hz			20	g
Operating temperature		-20		70	°C
Storage temperature		-35		95	°C
Soldering temperature	wave soldering max. 5 sec.			260	°C
Washability					fully sealed

Modifications in the sense of technical progress are reserved

Designed at: 20.07.17 Designed by: WKOVACS

Approval at:

Approval by:

Last Change at: Last Change by:

Approval at:

Approval by:

Version: 01