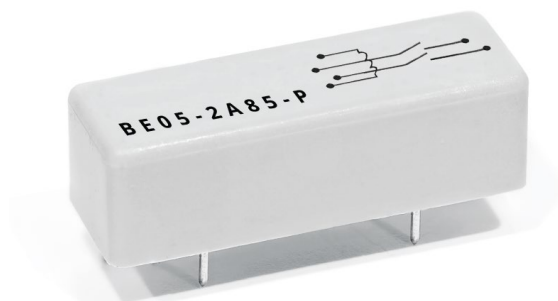


BE Series Reed Relays

- **Features:** Latching or High IR $10^{13}\Omega$, Plastic or Metal Housing, High Life Expectancy, Variety of Pin Out Schemes
- **Applications:** General purpose, Test Equipment, Medical equipment & Others
- **Markets:** Telecommunications, Medical, Test & Measurement & Others


Part Description: **BE00-0X00-X**

Nominal Voltage	Contact Quantity & Contact Form	Switch Model	Housing Option
05, 12, 24	1-5A, 1-2B, 1-2C, 1E (Latching), 2A+2B	66, 85, 90	P = Plastic, M = Metal, V = High Insulation *Option (V) = 4.5kVDC dielectric coil to contact

Customer Options	Switch Model			Unit
Contact Data	66	85	90	
Rated Power (max.) Any DC combination of V&A not to exceed their individual max.'s	10	100	10	W
Switching Voltage (max.) DC or peak AC	180	1000	175	V
Switching Current (max.) DC or peak AC	0.5	1.0	0.5	A
Carry Current (max.) DC or peak AC	1.25	2.5	1.0	A
Contact Resistance (max.) @ 0.5V & 10mA	150	150	150	mOhm
Breakdown Voltage (min.) According to EN60255-27	0.25	1.5	0.2	kVDC
Operating Time (max.) Including Bounce, Measured w/40% Pull-In Overdrive	0.7	1.1	0.7	ms
Release Time (max.) Measured without Coil Suppression	0.05	0.05	1.5	ms
Insulation Resistance (typ.) Rh<45%, 100V Test Voltage	10^{10}	10^{10}	10^9	Ohm
Capacitance (typ.) @ 10kHz across open Switch	0.3	0.5	1.5	pF

BE Series Reed Relays

Coil Data (at 20°C)		Coil Voltage (VDC)		Coil Resistance (Ohm)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Coil Power (mW)
Contact Form	Switch Model	Nominal	Max.	Typical (± 10 %)	Max.	Min.	Nominal
1A	66	5		140 (345)	3.5	0.75	179 (72)
		12		855 (2,145)	8.4	1.8	168 (67)
		24		3,285 (7,845)	16.8	3.6	175 (73)
	85	5		105 (140)	3.5	0.75	238 (179)
		12		620 (1,000)	8.4	1.8	232 (144)
		24		1,400 (2,300)	16.8	3.6	411 (250)
1B	66	12		-1,1	8.4	1.8	131
		24		-4,24	16.8	3.6	136
1C	90	12		2,145	8.4	1.8	67
		24		7,845	16.8	3.6	73
2A	66	12		445 (1,100)	8.4	1.8	324 (131)
		24		1,700 (4,240)	16.8	3.6	339 (136)
	85	5		70 (110)	3.5	0.75	357 (227)
		12		420 (600)	8.4	1.8	343 (240)
		24		1,080 (1,600)	16.8	3.6	533 (360)
2A + 2B	85	5		49	3.5	0.25	510
		12		303	8.4	0.7	475
		24		1,14	16.8	1.4	505

The Pull-In, Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °K The figures in parentheses are for relays in metal casing.

BE Reed Relay Dimensions/Pin-Out Options

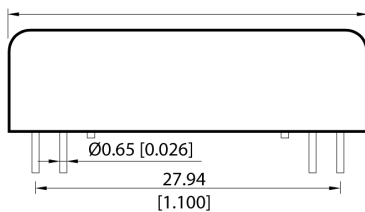
P = PLASTIC CASE, M = METAL CASE VERSION

Dimensions in mm [inch] / Tolerances acc. to ISO 2768-m

*View from top of component 2.54mm [0.10"] pitch grid

P = Plastic Housing, M = Metal housing, V = High Voltage Isolation

P = 33 [1.299], M = 32.4 [1.276]



1A / 1C

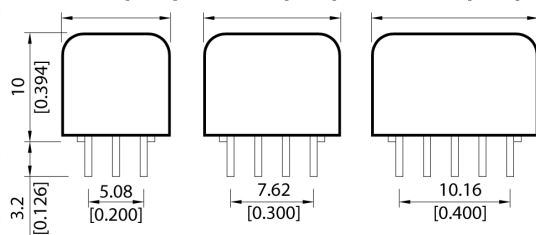
P = 10 [0.394]
M = 9.5 [0.374]

2A / 1B / 1E

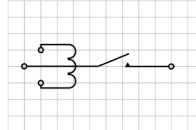
P = 12.6 [0.496]
M = 12.0 [0.472]

1A+1B

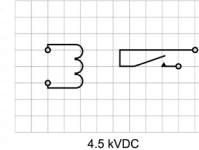
P = 15.3 [0.602]
M = 14.6 [0.575]



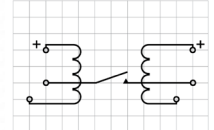
P(M) Form 1A



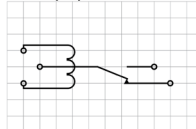
V Form 1A



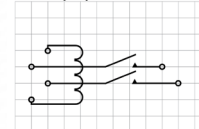
M Form 1E



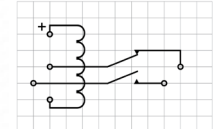
P(M) Form 1C



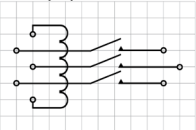
P(M) Form 2A



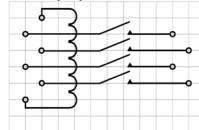
M Form 1A+1B



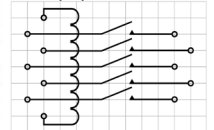
P(M) Form 3A



P(M) Form 4A

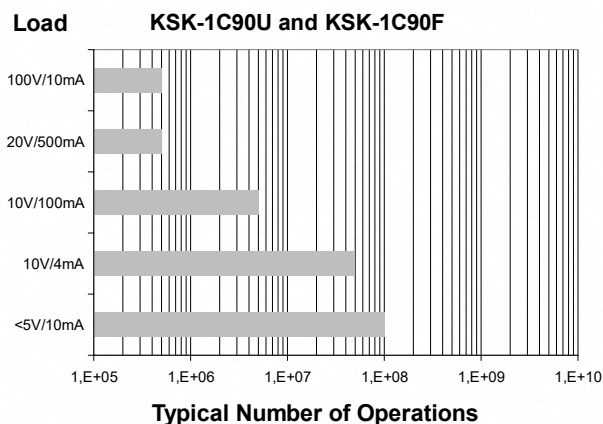
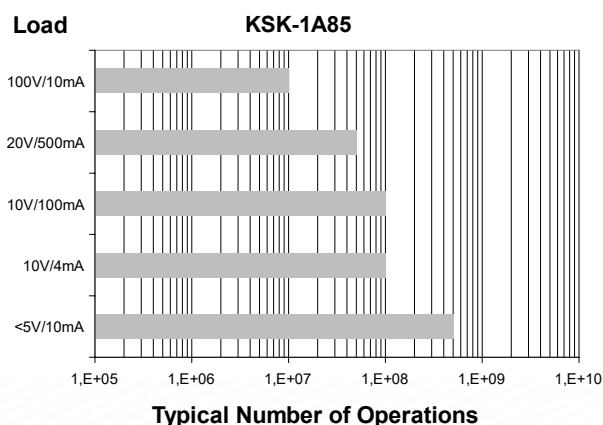
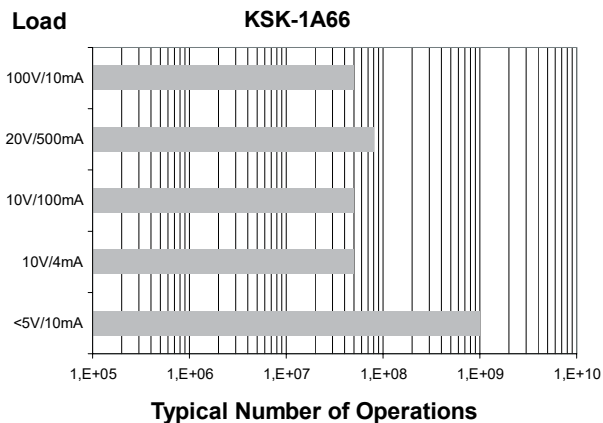


P(M) Form 5A



BE Series Reed Relays

Life Test Data (*Load increase reduces life expectancy of Reed Switches)



Environmental Data		Unit
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.) 10 – 2,000 Hz	20	g
Operating Temperature (max.) Surrounding of the relay's housing	-20 to 70	°C
Storage Temperature (max.) Surrounding of the relay's housing	-35 to 95	°C
Soldering Temperature (max.) 5 sec. max.	260	°C

Glossary Contact Form		
Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw	
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw	
Form C	Changeover SPDT = Single Pole Double Throw	

Handling & Assembly Instructions

- Switching inductive and/or capacitive loads create voltage and/or current peaks, which may damage the relay. Protective circuits need to be used.
- External magnetic fields need to be taken into consideration, including a too high packing density. This may influence the relays' electrical characteristics.
- Mechanical shock impacts e.g. dropping the relays may cause immediate or post-installation failure.
- Wave soldering: maximum 260°/5 seconds.

Please note: All technical specifications on this series datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

This series datasheet could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These changes will be incorporated in future revisions.

For deviating values, most current specifications and products please contact your nearest sales office.