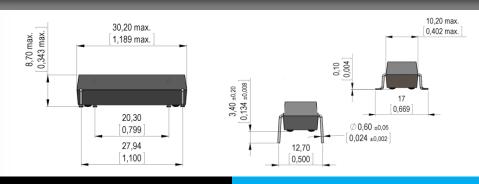


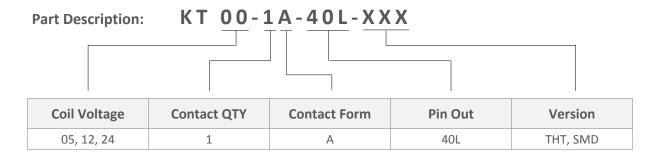
Series Datasheet – KT Reed Relays

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KT Series Reed Relays



- Features: High Voltage Through-Hole or SMD Relay, High Dielectric Strength, AEC-Q200 Certified
- Applications: Inverters in Photovoltaic Collectors, Automotive, Battery Management Systems & Others
- Markets: E-Cars, Solar & Others, Test & Measurement & Others



Customer Options	Switch Model	l lm:h	
Contact Data	85	Unit	
Rated Power (max.) Any DC combination of V&A not to exceed their individual max.'s	100	W	
Switching Voltage (max.) DC or peak AC	1,000	V	
Switching Current (max.) DC or peak AC	1.0	А	
Carry Current (max.) DC or peak AC	2.5	А	
Contact Resistance (max.) @ 0.5V & 50mA	150	mOhm	
Breakdown Voltage (min.) According to EN60255-5	3.0	kVDC	
Operating Time (max.) Incl. Bounce; Measured with w/ Nominal Voltage	1.1	ms	
Release Time (max.) Measured with no Coil Excitation	0.1	ms	
Insulation Resistance (typ.) Rh<45%, 100V Test Voltage	10 ¹⁰	Ohm	
Capacitance (typ.) @ 10kHz across open Switch	0.5	pF	



USA: +1.866.782.6339 Europe: +49.7731.8399.0 Asia: +86.21.37820625 | salesusa@standexmeder.com | info@standexmeder.com | salesasia@standexmeder.com



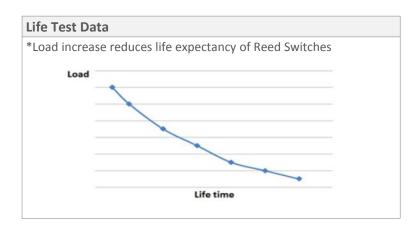
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Coil Data		Coil Voltage	Coil Resistance	Pull-In Voltage	Drop-Out Voltage	Nominal Coil Power
Contact Form	Switch Model	(nom.)	(typ.)	(max.)	(min.)	(typ.)
Unit		VDC	Ohm	VDC	VDC	mW
1A	85	05	80	3.5	0.6	313
		12	475	8.4	1.4	303
		24	1,800	16	2.9	320

The Pull-In / Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °C.

Relay Data		
Dielectric Strength Coil/Contact (min.) according to EN60255-5	7	kVDC
Insulation Resistance Coil/Contact (typ.) Rh<45%, 200V Test Voltage	10 ¹³	Ohm
Capacitance Coil/Contact (typ.) @ 10 kHz	1.2	pF
Shock Resistance (max.) 1/2 sine wave duration 11ms	30	g
Vibration Resistance (max.)	20	g
Operating Temperature	-40 to 100	°C
Storage Temperature	-40 to 125	°C
Soldering Temperature (max.) 5 sec. max.	260	°C
Washability	Fully Sealed	



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 needs 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.
- Reflow soldering: Recommendations given by the soldering paste manufacturer need to be considered as well as the temperature limits of other components/processes.









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