

FEATURES

- Single contact 953 series relay offers 30A switching capacity for various kinds of applications.
- Up to 30A switching in SPST-NO and 20A switching in SPDT-NC arrangement.
- Nominal power 930mW.
- Operating power 520mW.
- Both PCB terminal & Quick Connect Terminal for contacts.

CONTACT RATINGS

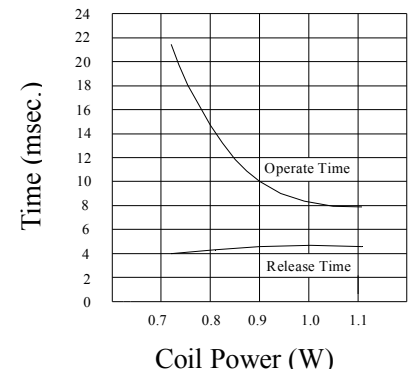
- Contact Arrangement..... 1 Form A (SPST-NO)
 1 Form B (SPST-NC)
 1 Form C (SPDT)
- Max. Switching Power
 1 Form A.....7500VA 600W
 1 Form B.....5000VA 300W
 1 Form C.....7500VA 600W
- Max. Switching Voltage.....277VAC 30VDC
- Max. Switching Current
 1Form A.....30A
 1 Form B.....20A
 1Form.C.....30A
- Contact Resistance..... $\leq 50m\Omega$
- Resistive Load
 1Form A.....30A/250VAC , 20A/277VAC 30VDC
 1Form B.....20A/240VAC , 15A/277VAC, 10A/30VDC
 1FormC..... NO: 30A/240VAC 、 20A/277VAC 30VDC
 NC: 20A/240VAC 、 15A/277VAC、 10A/30VDC
- Contact Material.....Ag Alloy

CHARACTERISTICS

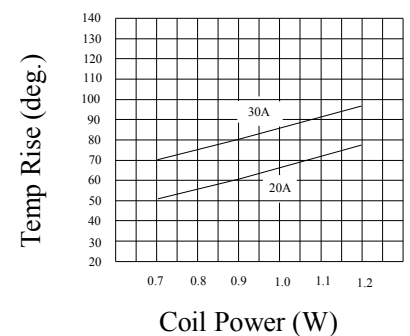
- Electrical Life..... 1×10^5
- Mechanical Life..... 1×10^7
- Initial Insulation Resistance.....Min. 500M Ω 500VDC
- Contact Resistance (Initial)..... $\leq 50m\Omega$
- Operate Time..... $\leq 15ms$
- Release Time..... $\leq 15ms$



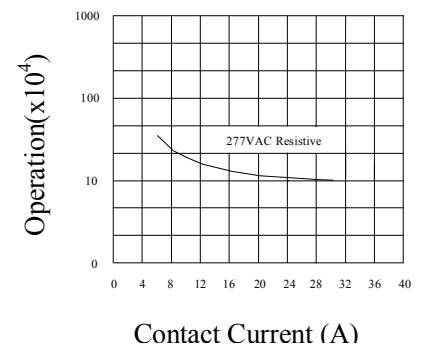
953K Referential Data Timing



Coil Temperature Rise



Life Curves



- Initial Dielectric Strength50/60Hz 1500VAC 1 min. (between open contact)
.....50/60Hz 2500VAC 1 min. (between all conductors)
- Vibration ResistanceMalfunction: 10 to 55Hz at Double Amplitude of 1.5mm
.....Destructive: 10 to 55Hz at Double Amplitude of 1.5mm
- Shock Resistance.....Malfunction: 10G (11ms) / Destructive: 100G (6ms)
- Ambient Temperature-55℃~+85℃
- Relative Humidity.....85% at 40℃
- Unit Weight.....Approx. 30g

ORDERING INFORMATION

953 - 1C - 12 D K F
1 2 3 4 5 6

Type of Insulation..... Nil = Class A ; F = Class F
Enclosure Connect Type.....K= Double Connect IV Type
Coil Type.....D: DC ; A: AC
Coil Voltage..... DC: 5~48V; AC: 6~277V
Contact Arrangement.....1A = 1 Form A (SPST-NO)
.....1B = 1 Form B (SPST-NC)
.....1C = 1 Form C (SPDT)
Model Number.....953

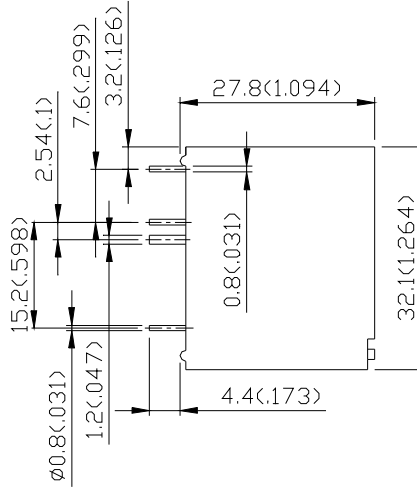
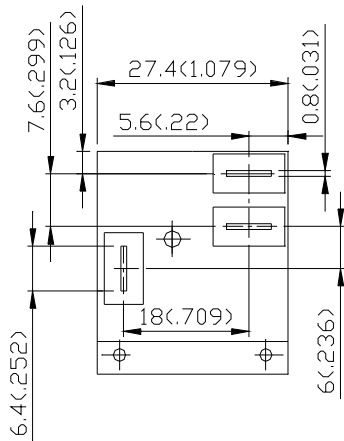
COIL RATINGS(at 20℃)

COIL TYPE	Coil Nominal Voltage (V)	Coil Resistance ($\Omega \pm 10\%$)	Pick-Up Voltage (V) \leq	Drop-Out Voltage (V) \geq	Nominal Current (mA)
DC Standard Coils	5	27	3.75	0.5	185
	6	40	4.5	0.6	150
	9	97	6.75	0.9	93
	12	155	9	1.2	77
	18	380	13.5	1.8	47
	24	660	18	2.4	36
	36	1440	27	3.6	25
	48	2560	36	4.8	19
AC	6	10	5.1	0.6	
	12	43	10.2	1.2	
	24	160	20.4	2.4	
	110	3160	93.5	11	
	220	13490	187	22	
	277	19900	235.4	27.7	

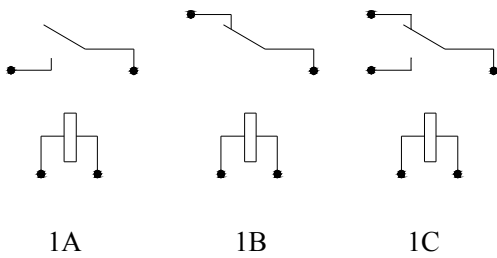
* Max Continuous Voltage at 20℃: 110% of Coil Nominal Voltage.

OUTLINE DIMENSIONS

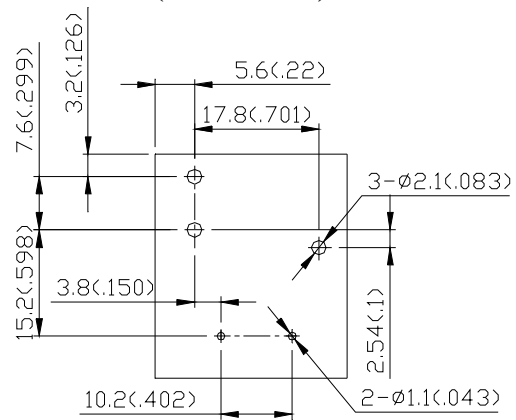
Dimensions



Internal Connections (Bottom View)



Drilling Plan (Bottom View)



REMARK: Tolerance of outline dimensions: $\pm 0.2(.008)$.

UNIT: mm (inch)