



● Vibration Resistance

.....Malfunction: 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°C ~ +85°C

● Relative Humidity.....85% at 40°C

● Unit Weight.....Approx. 30g

**ORDERING INFORMATION**

953 - 1C - 12      D      A      F - S  
 1      2      3      4      5      6      7

Enclosure.....Nil = Open Type  
 .....S = Sealed Type

Type of Insulation.....Nil = Class A  
 .....F = Class F

Enclosure Connect Type ...A = Double Connect I 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°C)**

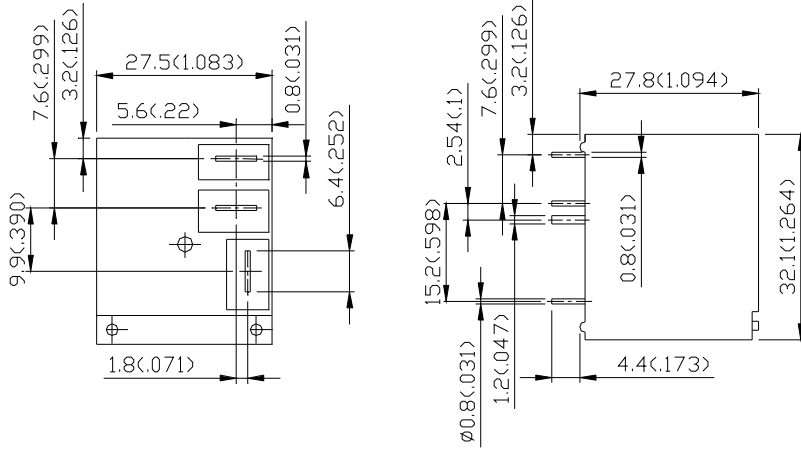
COIL TYPE	Coil Nominal Voltage (V)	Coil Resistance ( $\Omega \pm 10\%$ )	Pick-Up Voltage (V) $\leq$	Drop-Out Voltage (V) $\geq$	Nominal Current (mA)
DC Standard Coils	5	27	3.75	0.5	185
	6	40	4.5	0.6	150
	9	97	6.75	0.9	93
	12	155	9	1.2	77
	18	380	13.5	1.8	47
	24	660	18	2.4	36
	36	1440	27	3.6	25
AC	48	2560	36	4.8	19
	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°C: 110% of Coil Nominal Voltage.

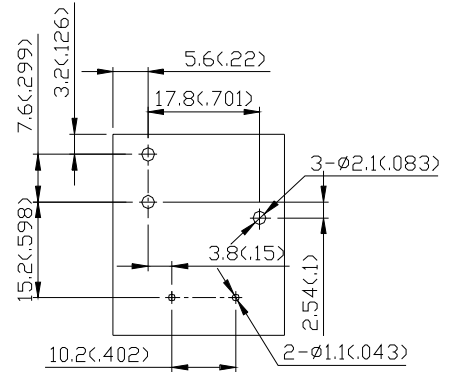
# OUTLINE DIMENSIONS

## SEALED TYPE

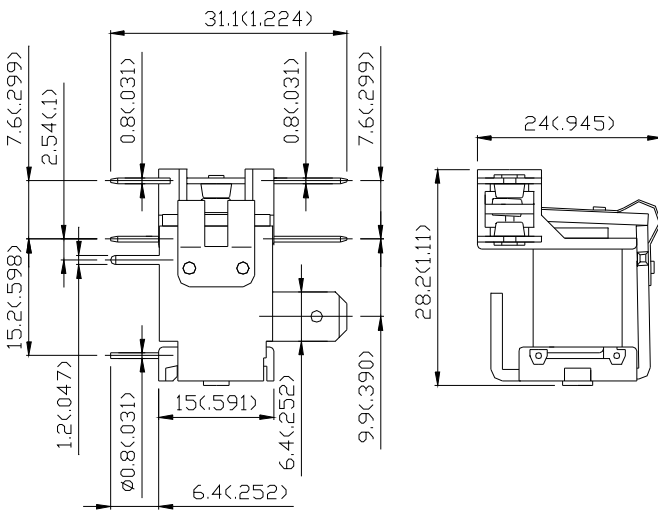
**Dimensions**



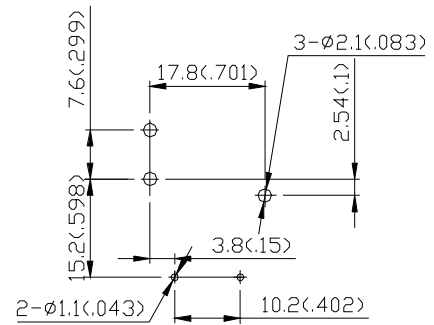
**Drilling Plan  
(Bottom View)**



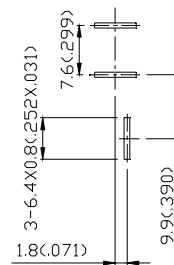
## OPEN TYPE



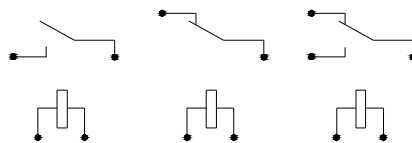
**(Bottom View)**



**(Top View)**



**Internal Connections  
(Bottom View)**



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

UNIT: mm (inch)

## SAFETY APPROVAL

### ● UL APPROVAL

Contact Rating	1 Form A (SPST-NO)	1 Form B (SPST-NC)	1 Form C (SPDT)	
			NO	NC
Resistive Load	20A / 277VAC 19.8A / 277VAC 30A / 240VAC 20A / 30VDC	15A / 277VAC 10A / 30VDC	20A / 277VAC 20A / 30VDC	15A / 277VAC 10A / 30VDC
General Purpose Load	10A / 277VAC	8A / 277VAC	10A / 277VAC	8A / 277VAC
Motor Load (Cos $\phi$ : 0.4 ~ 0.5)	2HP / 250VAC 1HP / 125VAC	1/2HP / 250VAC 1/4HP / 125VAC	2HP / 250VAC 1HP / 125VAC	1/2HP / 250VAC 1/4HP / 125VAC
Horse Power	FLA 10.3 LRA 61.8 / 277VAC FLA 11.2 LRA 67.2 / 240VAC FLA 12 / 250VAC FLA 16 LRA 96 / 240VAC FLA 16 LRA 96 / 120VAC FLA 16 / 125VAC	FLA 4.9 / 250VAC FLA 5.8 / 125VAC	FLA 12 / 250VAC FLA 16 / 125VAC	FLA 4.9 / 250VAC FLA 5.8 / 125VAC
Ballast	20A / 277VAC		20A / 277VAC	

### I TUV APPROVAL

Contact Rating	1 Form A (SPST-NO)	1 Form B (SPST-NC)	1 Form C (SPDT)	
			NO	NC
Resistive Load	30A / 250VAC 20A / 30VDC	15A / 250VAC 15A / 30VDC	20A / 250VAC 20A / 30VDC	10A / 250VAC 10A / 30VDC
Inductive Load (Cos $\phi$ : 0.4, L/R: 7ms)	15A / 250VAC 15A / 30 VDC	8A / 250VAC 8A / 30VDC	10A / 250VAC 10A / 30VDC	8A / 250VAC 8A / 30VDC
Motor Load (Cos $\phi$ : 0.6)	2HP / 250VAC 1HP / 125VAC	1/2HP / 250VAC 1/4HP / 125VAC	2HP / 250VAC 1HP / 125VAC	1/2HP / 250VAC 1/4HP / 125VAC
Pilot Duty Load (Rate 6000 Operations)	720VA / 240VAC 800VA / 125VAC	360VA / 240VAC 290VA / 125VAC	470VA / 240VAC 470VA / 125VAC	360VA / 240VAC 290VA / 125VAC

### I CQC APPROVAL

Contact Rating	1 Form A (SPST-NO)	1 Form B (SPST-NC)	1 Form C (SPDT)	
			NO	NC
Resistive Load	30A / 240VAC	20A / 240VAC	30A / 240VAC	20A / 240VAC

### I CE DECLARATION OF COFORMITY

In conformity with the Low Voltage Directive 73/23/EEC

Test Report No.: E9967734E02 (TUV)

Test Specification: EN61810-1 、 EN61810-5 、 EN60255-23