

# **BSTRW-114M**

## Series Electromagnetic Rely

## 1. Product Overview

The product is a sensitive electromagnet relay with small size. It has excellent electrical properties and environmental indicators, so it is very suitable for high-density installation of PCB boards. The product can be used for signal and line switching in the aviation, aerospace and other industries.

Adopted military standard: MIL-R-5757.

## 2. Product Features

| No. | Item          | Performance                                |
|-----|---------------|--------------------------------------------|
| 1   | Contacts type | 2Z                                         |
| 2   | Weight        | ≤ 5g                                       |
| 3   | Leakage rate  | ≤ 1×10 <sup>-1</sup> Pa·cm <sup>3</sup> /s |

## 3. Environment Characteristics

| No. | Item                                                   | Performance                                              |            |
|-----|--------------------------------------------------------|----------------------------------------------------------|------------|
| 1   | Environment grade                                      | I                                                        | II         |
| 2   | Temperature range(°C)                                  | -55~+85                                                  |            |
| 3   | Humidity                                               | +40°C up 98%                                             |            |
| 4   | Low atmospheric range(kPa)                             | 1                                                        | 0.27~0.013 |
| 5   | Vibration                                              | Acceleration(m/s <sup>2</sup> )                          | 10~2000    |
|     |                                                        | Pulse lasting time(ms)                                   | 150        |
| 6   | Shock                                                  | Frequency range(Hz)                                      | 500        |
|     |                                                        | Acceleration root-mean-square values (m/s <sup>2</sup> ) | 6          |
| 7   | Acceleration (m/s <sup>2</sup> )                       | 500                                                      | 500        |
| 8   | Random Vibration((m/s <sup>2</sup> ) <sup>2</sup> /Hz) | 20                                                       |            |

## 4. Product Specifications

| No. | Item                                                     | Performance                                                                              |
|-----|----------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1   | Coil consumption(W)                                      | 0.08~0.3                                                                                 |
| 2   | Contact resistance(Ω)                                    | Initial Value                                                                            |
|     |                                                          | After life                                                                               |
| 3   | Operating time(ms)                                       | ≤ 5                                                                                      |
| 4   | Releasing time(ms)                                       | ≤ 5                                                                                      |
| 5   | Insulation resistance(MΩ)<br>Test voltage:500V(1±10)d.c. | Under normal condition                                                                   |
|     |                                                          | Under high temperature and high humidity and afterlife                                   |
| 6   | Dielectric withstanding voltage<br>Vr.m.s(50Hz)          | Under normal condition                                                                   |
|     |                                                          | Under low atmospheric                                                                    |
| 7   | Contact load                                             | Resistive:<br>High level:1A,28Vd.c.<br>0.5A,28Vd.c. Low level:10~50μA<br>10~50mVd.c.     |
| 8   | Life                                                     | High level:1A:2×10 <sup>4</sup><br>0.5A:1×10 <sup>5</sup><br>Low level:1×10 <sup>5</sup> |

## 5. Coil Characteristics

| No. | Coil voltage    |             | 25°C                     |                               |                             | Full temperature range        |                              |
|-----|-----------------|-------------|--------------------------|-------------------------------|-----------------------------|-------------------------------|------------------------------|
|     | Nominal (Vd.c.) | Max (Vd.c.) | Coil Resistance (1±10%)Ω | Operating voltage Max (Vd.c.) | Release voltage Min (Vd.c.) | Operating voltage Max (Vd.c.) | Drop out voltage Min (Vd.c.) |
| 003 | 3               | 4           | 100                      | 2.1                           | 0.18                        | 2.7                           | 0.10                         |
| 005 | 5               | 6           | 300                      | 3.5                           | 0.3                         | 4.4                           | 0.15                         |
| 006 | 6               | 8           | 300                      | 4.0                           | 0.6                         | 5.0                           | 0.18                         |
| 009 | 9               | 11          | 600                      | 6.0                           | 0.54                        | 7.5                           | 0.27                         |
| 012 | 12              | 14          | 1100                     | 7.8                           | 0.72                        | 9.7                           | 0.36                         |
| 015 | 15              | 17          | 1700                     | 9.8                           | 0.9                         | 12.2                          | 0.45                         |
| 018 | 18              | 20          | 1700                     | 11.7                          | 1.1                         | 14.5                          | 0.55                         |
| 020 | 20              | 22          | 2900                     | 13.0                          | 1.2                         | 16.1                          | 0.60                         |

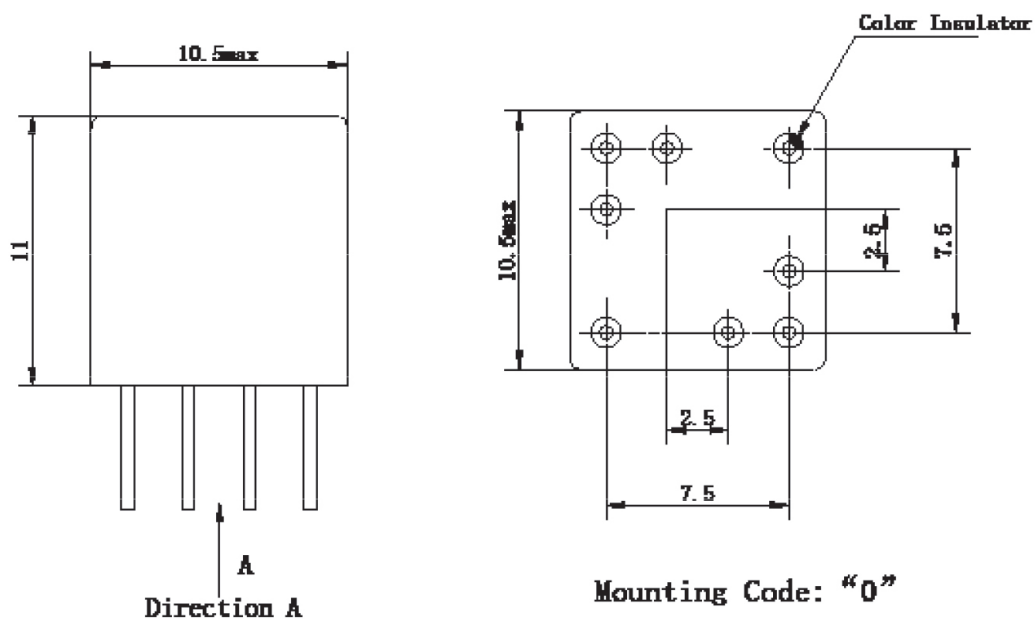
Special coil types available upon to request

## 6. Product Ordering information

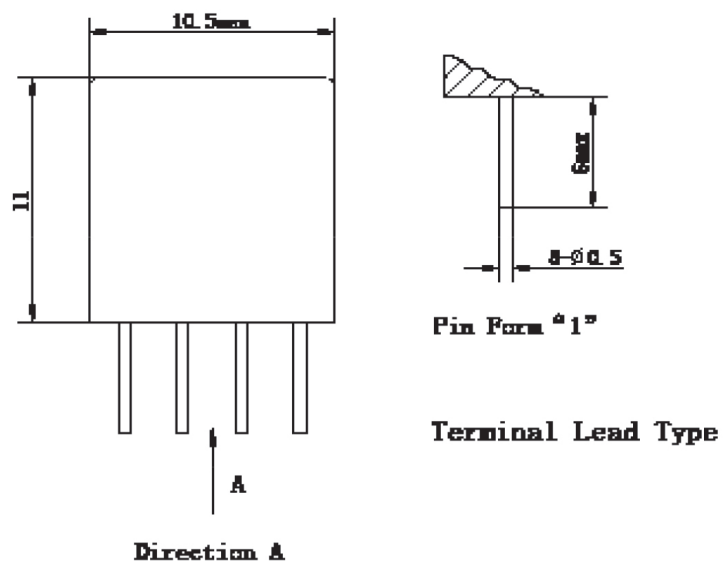
BSTRW-114M / 028 - 0 1 - II  
 ①                      ②                      ③ ④                      ⑤

- ① Basic series
- ② Coil voltage
- ③ Mounting style
- ④ Terminal type
- ⑤ Environmental grade

## 7. Mounting types



## 8. Terminal types



## 9. Bottom View

