



ZIPPY TECHNOLOGY CORP.

10F, NO.50, MIN CHYUAN ROAD,
SHIN-TIEN CITY, TAIPEI COUNTY,
TAIWAN, R.O.C

TEL: 886-2-2918-8512 / 886-2-2918-0603
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[Http://www.zippy.com.tw](http://www.zippy.com.tw)



APPROVED DATA SHEET

Model: 1000840516(VM-P1S-00D0-Z)

ISSUED DATE: 2023.07.24

APPROVED NO.: 1000840516.F

PAGE: 1/4

The undersigned guarantee of the model switches is meets the following specifications.

1.Operation Characteristics

Operating Force (OF)	:	Max. 200 gf
Releasing Force (RF)	:	Min. 71 gf
Operating Position (OP)	:	14.7±0.5 mm
Movement Differential (MD)	:	Max. 0.4 mm
Over-travel (OT)	:	Min. 0.8 mm
Pre-travel (PT)	:	Max. 1.3 mm

2. Specifications

Initial Contact Resistance	:	Max. 100 mΩ . (Measured by ohm meter –Open Voltage<1VDC, Driver current -100mA) Before measure the switch contact resistance, please press the switch three times on and off.
Initial Dielectric Strength	:	1,000VAC(50-60HZ)/minute between contacts. 1,500VAC(50-60HZ)/minute between Live-parts and dead metal parts.
Insulation Resistance	:	Min. 100 MΩ (500 VDC/ minute) between Live-parts and dead metal parts.
Circuit Arrangement	:	SPDT (Single pole double throw)
Rating	:	0.1A 125/250VAC
Service Life	:	Min. 1,000,000 operations.
Rating Load	:	Resistive Load.
Operating Frequency	:	120 operations per minute.

Mechanical Service Life : Min. 10,000,000 operations.

Operating Frequency : Max. 120 operations per minute.

Operating application of the switch : Set the switch pushing distance from 60% to 90% of the specified OT value.



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3. Environments

Operating Temperature : -40°C~85°C (with no icing)
Vibration Resistance : 10~55Hz, displacement 0.75mm(p-p)
Shock Resistance : Destruction: 1,000 m/s² {approx. 100G} max.
Malfunction: 300 m/s² {approx. 30G} max.

(For the pin plunger models, the vibration & shock condition apply for use at the free position and total travel position)
(For the lever models, the vibration & shock condition apply for use at the total travel position)

Soldering by hand : 350°C maximum within 5 seconds.



4. Caution:

or click the link→ https://www.zippy.com/ecmodelcautions/micro_switch_cautions.pdf

ZIPPY TECHNOLOGY CORP.

卓妍蓁

PREPARED

簡永鎮

CHECKED

沈俊榮

APPROVED

Technical drawing of a 3-pin relay showing three views: top, side, and front views. Dimensions are in mm.

Top View Dimensions:

- Overall width: 27.8
- Distance from left edge to center of mounting hole: 20.2
- Distance from center of mounting hole to right edge: 10.0
- Distance from left edge to center of terminal hole: 12.2
- Overall length: 22.2 ± 0.15
- Distance from left edge to center of terminal hole: 10.3 ± 0.15
- Distance from center of terminal hole to right edge: 7.15 ± 0.4
- Distance from center of terminal hole to center of mounting hole: 3.1 ± 0.1
- Distance from center of mounting hole to right edge: 2.8
- Distance from left edge to center of mounting hole: 2.8 ± 0.1
- Distance from center of mounting hole to right edge: 0.5 ± 0.05
- Distance from center of mounting hole to right edge: (2.7)

Side View Dimensions:

- Overall height: 15.9
- Distance from top edge to center of mounting hole: 10.3
- Distance from center of mounting hole to bottom edge: 4.2
- Distance from center of mounting hole to center of terminal hole: 4.7 ± 0.1
- Distance from center of terminal hole to bottom edge: 6.3

Front View Dimensions:

- Overall width: 10.3
- Distance from left edge to center of mounting hole: 4.2
- Distance from center of mounting hole to right edge: 4.7 ± 0.1
- Distance from center of mounting hole to center of terminal hole: 6.3
- Distance from center of terminal hole to right edge: 4.7 ± 0.1

Terminal Labels:

- NC (Normally Closed)
- NO (Normally Open)
- COM (Common)

Mounting Hole Dimensions:

- Mounting hole diameter: $\phi 3.1 \pm 0.1$
- Terminal hole diameter: $\phi 3.4 \pm 0.1$

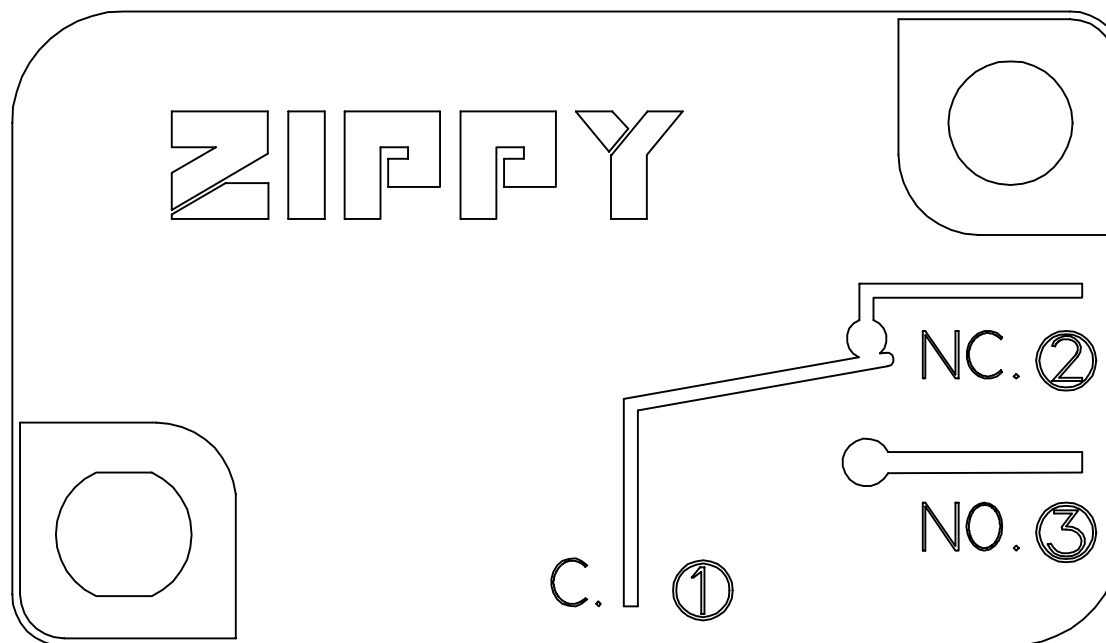
Other Dimensions:

- Distance from left edge to center of mounting hole: 2.8 ± 0.1
- Distance from center of mounting hole to right edge: 0.5 ± 0.05
- Distance from center of mounting hole to right edge: (2.7)

Tolerance	
X. X	± 0.2
XX. X	± 0.4

VIEW		SIZE	A4	UNIT	mm
DATE	APR.16.2013	VER.	1.4	FILE NAME	VM-00DO
APPROVAL	李金龍	CONFIRM	倪有庭	DESIGN	林格祥

VM-P1



COVER

This page shows switch marking only.

此頁僅顯示開關印字，外觀參照外觀圖

Marking can either be printed or molded

印字可為印刷或模刻

VIEW		SIZE	A4	UNIT	mm
DATE	2020.11.11	VER.	1.4	FILE NAME	VM-P1
APPROVAL	沈俊榮	CONFIRM	張奕鉸	DESIGN	張立人