

NO. A31005

Edition

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EV 16 SERIES MICRO SWITCH

1. FEATURES:

- 1-1 High applicability for general industrial equipment and home appliances.
- 1-2 High precision mechanism design offering durable acute operation and long life.
- 1-3 Heavy/Light operation force specifications.
- 1-4 Three Kinds of terminal available #187 quick connect/solder, #187 quick connect and #250 quick connect type.

2. APPLICATION:

- 2-1 Home appliances
- 2-2 Vending machines
- 2-3 Amusement and communication equipment
- 2-4 Office automation appliances
- 2-5 General industrial machines

2. SPECIFICATIONS:

Ratings: 16A 1/2HP 125/250VAC

0.6A 125VDC; 0.3A 250VDC

Circuit arrangement: SPST(1a), snap action

SPST(1b), snap action SPDT(1c), snap action

3.1 ELECTRICAL

3-1-1 Insulation resistance: 100 M Ω Min. at 500 VDC

3-1-2 Dielectric Strength

Between non-continuous terminal: AC 1000Vrms
Between each terminal and other: AC 2000Vrms

Exposed metal parts

Between each terminal and ground: AC 2000Vrms

3-1-3 Initial contact resistance: $100m\Omega$ Max.



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AC 250V(50/60)Hz 20A 0.75~0.8 power

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3-1-5 Temperature rise: After AC 250V 16A 6000 cycles,

DC 250V 0.45A

16A current, terminal 30°C Max.

N.O. 40 A 3-1-6 Surge current: (AC50/60Hz 110V) N.C. 40 A

3.2 MECHANICAL

3-2-1 Operating Force (OF):

Release Force (RF):

3-1-4 Overload current:

Pre-travel (PT):

Operating Position (OP):

Overtravel (OT):

Movement Differential (MD):

see attached drawing.

3-2-2 Shock Resistance: $300m/s{30G}Max$.

(Without lever)

10 to 55 Hz amplitude of 1.5mm

3-2-3 Vibration Resistance: (Without lever)

3-2-4 Terminal strength

2.3Kg (1 minute) in the

direction of the axis of

terminals

3.3 ENVIRONMENTAL

3-3-3 Humidity:

3-3-1. Ambient Temperature: -25°C to +80°C

(without dew condensation)

-25°C ~ +65°C 3-3-2 Storage temperature:

(without dew condensation)

93% RH Max., 40°C for 96 Hrs.

 -40° C $\pm 3^{\circ}$ C for 96 hrs 3-3-4 Low temperature

85±2°C for 96 hrs 3-3-5 High temperature

3-3-6 Unit weight Approx: 6.5g



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3.4 DURABILITY

3-4-1 Allowable Operation speed: 0.1 to

0.1 to 1,000 mm/sec

(without lever)

3-4-2 Max.operating cycle rate: Mechanical 600 cycles/min.

Electrical 60 cycles/min.

3-4-3 Mechanical Life: 50,000,000 cycles Operations

3-4-4 Electrical Life: 100,000 cycles Operations

4. MATERIALS:

COMPONENT		MATERIAL	SPECIFICATION
4-1	Cover:	PBT+30%GF	Black
4-2	Case:	PBT+30%GF	Black
4-3	Button:	PBT+30%GF)	Red
4-4	Contact:	AgNi	AgNi
4-5	Leaf Spring:	Brass Copper	C2680R-1/2H
4-6	Moving Spring:	Beryllium Copper	C1720R-1/2HM
4-7	Terminal A:	Brass Copper	C2680R-1/2H
4-8	Terminal B:	Brass Copper	C2680R-1/2H
4-9	Terminal C:	Brass Copper	C2680R-1/2H
4-10	Guide:	Brass Copper	C2680R-1/2H
4-11	Lever:	Stainless	SU301CSP Hor3/4H

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An ISO 9001 Company				

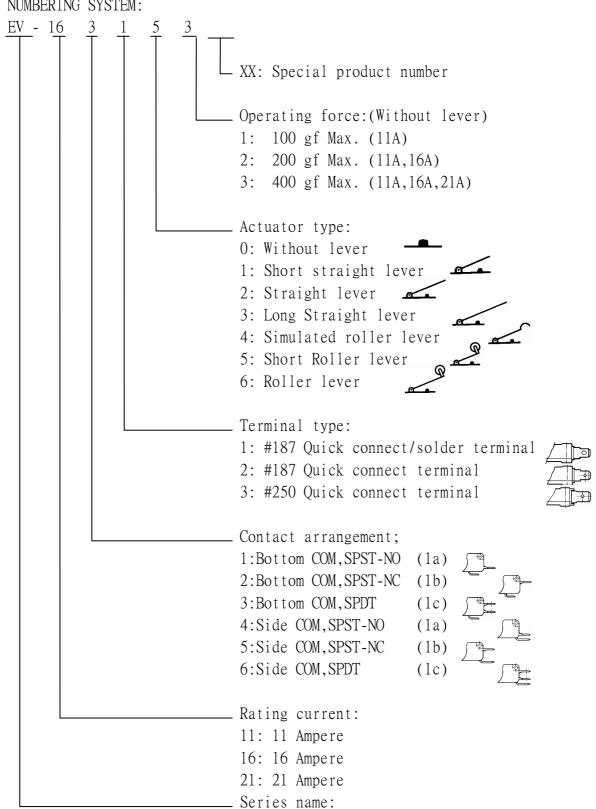
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5. PART NUMBERING SYSTEM:



EV: V type micro switches



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6. PACKING

6-1 PACKING METHOD

Micro Switches are packed into tray and then packed into boxes.

6-2 INFORMATION ON LABEL (stuck to each box).

(1) DESCRIPTION.

(8) DATE.

(2) LOT NO.

(9) MANUFACTURERS NAME.

(3) REPROCESS NO.

(10) ELECTRICAL.

(4) QUANTITY.

(11) RATING.

(5) TESTER NO.

(12) TEMPERATURE.

(6) ECE MARK.

(13) CONDUCTOR SIZE.

(7) QC STAMP.

(14) TORQUE.

7. DRAWINGS

Micro Switch dimensions: see attached drawing.

