

Enclosed Switch

SHL-Q55-01

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Image

Enclosed Limit switches, Micro load, IP67, SPDT, Panel mount plunger, Panel mounting/Side mounting

Shape/Structure	Enclosed Limit switches
Actuator	Panel mount plunger
Contact form	SPDT
Degree of protection	IP67

Ratings / Performance

As of April 9, 2020

Shape/Structure	Enclosed Limit switches
ctuator	Panel mount plunger 7.8 dia. Stainless-steel plunger
Frequency	50/60 Hz
Contact form	SPDT
Load	Micro load
Ratings (AC): Non-Inductive load	Resistive load: 0.1 A at 125 VAC
Ratings (DC): Non-Inductive load	Resistive load: 0.1 A at 8 VDC/0.1 A at 14 VDC/0.1 A at 30 VDC
Ambient temperature	Operating: -10 to 80 °C (with no icing)
Ambient humidity	35 to 95% RH

Permissible operating frequency	Electrical: 30 operations / 1 minute max. Mechanical: 120 operations / 1 minute max.
Contact resistance (Initial value)	15 mΩ max. (initial value for the built-in switch whentested alone)
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	Between each terminal of the same polarities: 1,000 VAC 50/60 Hz 1 min Between each terminal and non-live-metallic part: 2,000 VAC 50/60 Hz 1 min
Impulse withstand voltage	Between each terminal and non-live-metallic part: 2.5 kV
Durability	Electrical: 500,000 operations min. Mechanical: 10 million operations min.
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5 mm double amplitude
Shock resistance	Destruction: 1,000 m/s ² max. Malfunction: 300 m/s ² max.
Pollution degree	3 (EN60947-5-1)

Degree of protection	IP67
Classification of protection against electric shock	Class II (Grounding not required with double) insulation

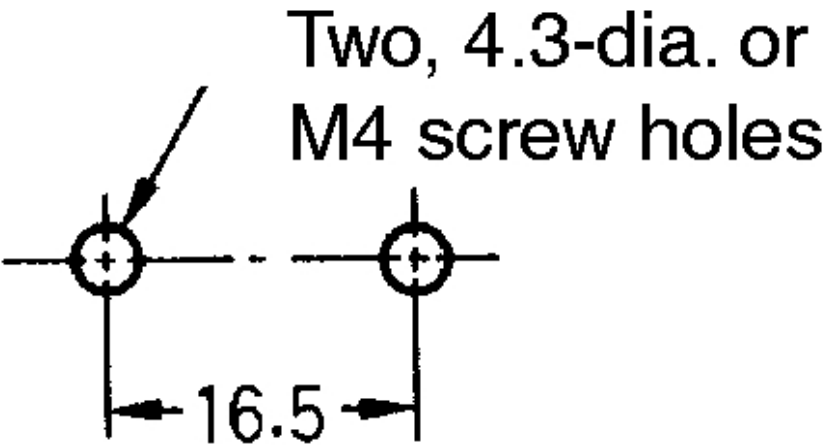
Operating Force (OF)	Standard value 9.81 N max.
Release Force (RF)	Standard value 1.96 N min.
Pre-Travel (PT)	Standard value 1.5 mm max.
Movement Differential (MD)	Standard value 0.5 mm max.
Over-Travel (OT)	Standard value 2 mm min.
Operating Position (OP)	Standard value 34±0.8 mm

As of April 9, 2020

Dimensions

As of April 9, 2020

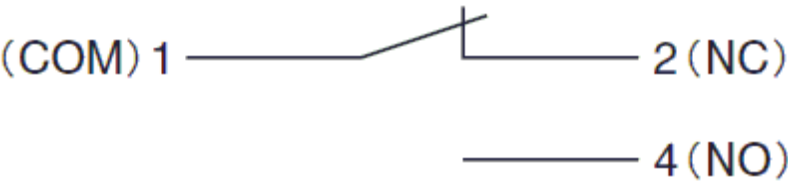
Mounting hole dimensions



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Circuits configuration

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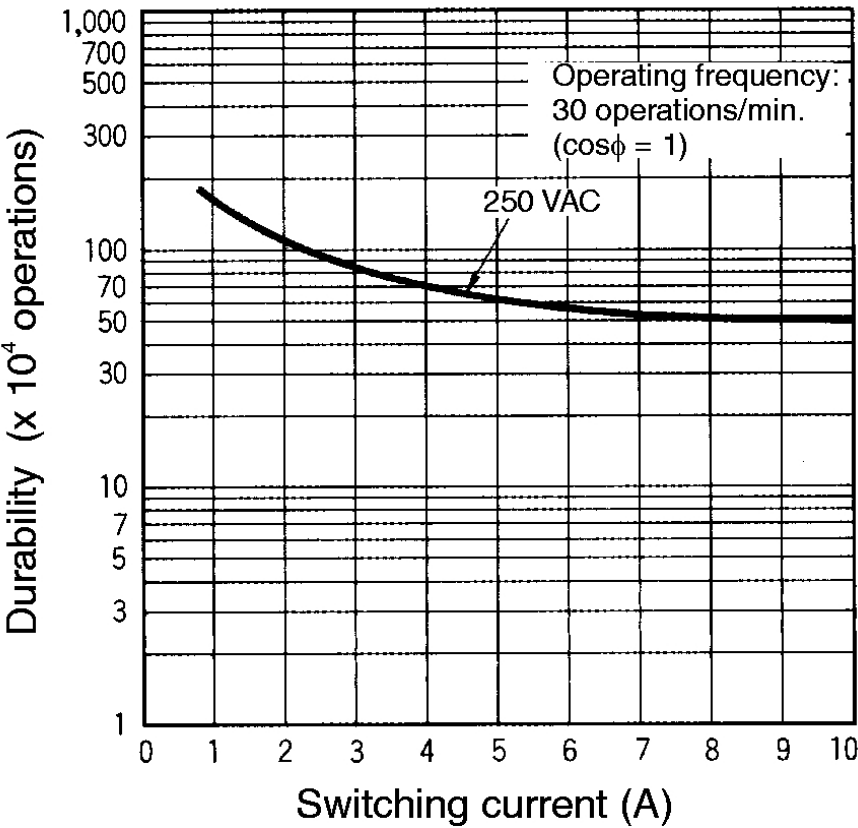
Characteristic chart

As of April 9, 2020

Durability curve

Electrical

Ambient temperature: 5°C to 35°C
Ambient humidity: 40% to 50%



Applicable load diagram

