Dust protected Compact-sized Snap Action Switches MQS-57 Series

1/3

Features

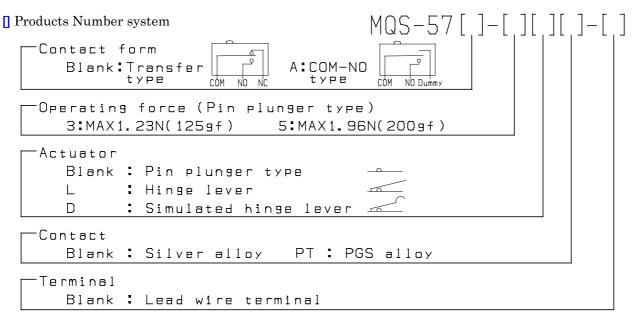
- >Flux-resistant construction with integrally molded terminals.
- Suitable for the use in the watery, dusty and corrosive gas environment.



Actual size

Applications

Cleaner , Refrigerator , Hot water pot



■ Typical Specifications

Typical Specifications Item		Specifi	cations			
Item	Specifications					
Contact	Silver alloy contact type		PGS alloy contact type			
Operating force (Pin plunger type)	MAX 1.23N (125gf)	MAX 1.96N (200gf)	MAX 1.23N (125gf)	MAX 1.96N (200gf)		
Ratings (Resistive load)	2A 12 2A 30		0.1A 125V AC 0.1A 30V DC			
Mechanical life	300,000 cycles					
Electrical life	30,000 cycles		100,000 cycles			
Contact resistance (Initial)	MAX 30 milliohm		MAX 100 milliohm			
Insulation Resistance	MIN 100 megohm 500V DC					
Withstanding voltage	Between open contacts : 600V AC 1min Between each terminal and non live metal part : 1500V AC 1min Between each terminal and each : 1500V AC 1min					
Resistibility to vibration (Pin plunger type)	double amplitude: 1.5mm, frequency: 10 to 55Hz Each direction Open contact shall be less than 1 ms at the above conditions.					
Resistibility to shock (Pin plunger type)	Open contact shall be less than 1 ms at 30G.					
Allowable operating speed (at no load)	1 to 500 mm/sec.					
Max. operating cycle rate (at no load)	120 times/min.					
Operating temperature range	-20 to +70 degree Celsius					
Ambient humidity	MAX 85%RH					

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■ Products line

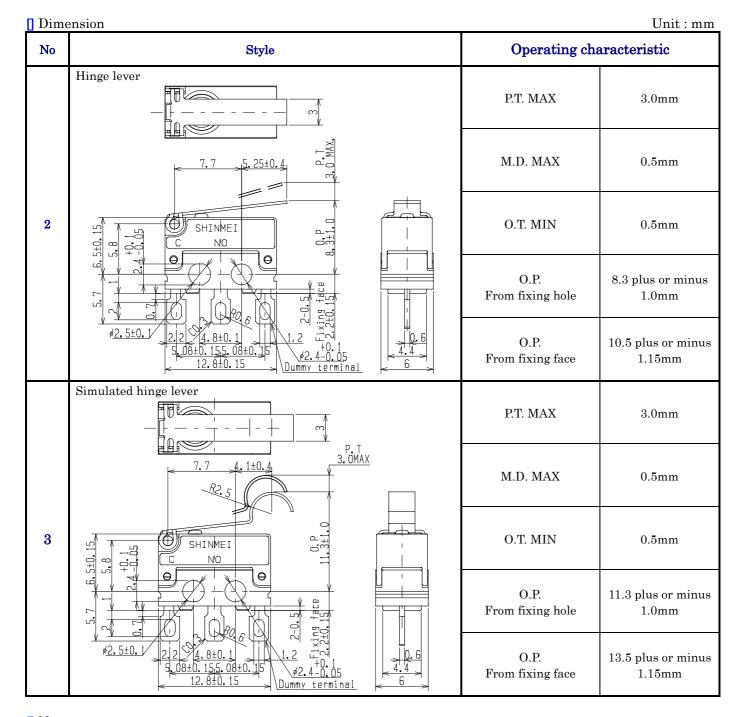
 $\begin{array}{lll} Transfer \ type & : MQS-57[\]-_-L & ([\] \ is \ blank) \\ COM-NO \ type & : MQS-57[A]-_-L & (A \ in \ [\]) \\ \end{array}$

Antonoton	NT.	Operating force	Silver alloy	PGS alloy	
Actuator	No	(MAX)	Products No.	Products No.	
Pin plunger type (Blank)	1	1.23N (125gf)	MQS-57[]-3	MQS-57[]-3PT	
		1.96N (200gf)	MQS-57[]-5	MQS-57[]-5PT	
Hinge lever (L)	2	0.39N (40gf)	MQS-57[]-3L	MQS-57[]-3LPT	
		0.64N (65gf)	MQS-57[]-5L	MQS-57[]-5LPT	
Simulated hinge lever (D)	3	0.39N (40gf)	MQS-57[]-3D	MQS-57[]-3DPT	
		0.64N (65gf)	MQS-57[]-5D	MQS-57[]-5DPT	

Operating characteristic

Actuator	Operating force code	O.F. MAX.	R.F. MIN	P.T. MAX	M.D. MAX	O.T. MIN	O.P.
Pin plunger	3	1.23N	0.147N	0.6	0.10	0.25	7.0 plus or
type (Blank)	5	1.96N	0.245N		0.12		minus 0.2
Hinge lever (L)	3	0.39N	0.029N	3.0	0.5	0.5	8.3 plus or minus 01.0
	5	0.64N	0.049N				
Simulated hinge lever (D)	3	0.39N	0.029N	3.0	0.5	0.5	11.3 plus or
	5	0.64N	0.049N				minus 01.0

Dimension Unit:mmOperating characteristic No Style Pin plunger type P.T. MAX 0.6mm M.D. MAX $0.12 \mathrm{mm}$ O.T. MIN 0.25mm 1 SHINMEI O.P. 7 plus or minus From fixing hole 0.2mm O.P. 9.2 plus or minus From fixing face $0.35 \mathrm{mm}$



Notes

- 1. The appearance and specifications of the product may be modified without prior notice to improve its performance.
- 2. This catalog shows only outline specifications. When using the product, please obtain formal specifications.
- 3. Please see appendix [Cautions in Using Switches].
- 4. Fix the switch by M2.3 screw with torque less than 29.4 N-cm(3 kg-cm) Fixing with spring washers and adhesive are recommended to avoid the loose of the screw.
- 5. Operating force applied to push button or actuator should be zero at free position and the force shall not be applied vertically to push button during the operation.
- 6. O.T. (Over travel) shall be set between 80% and 100% of O.T. specifications.
- 7. In connecting lead wires, care should be taken not to apply tension to terminal.
- 8. In case of manual-soldering, soldering should be finished within 3 seconds by soldering iron of 30 W or with maximum tip temperature of 350 degree Celsius. Please do not apply pressure for 1 minute after soldering.
- 9. Please design usage of switch in proper operation even if any standard value of operational characteristics changes by plus or minus $20\ \%$.
- 10. No dust, high humidity and organic gas should be found in the storage location.
- 11. Please confirm the performance on actual operation by simulation with actual environment environments for high reliability.

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