

83118 Reduced force 83118 S1 Part number made to order



- Reduced actuation force
- Very short differential travel
- Choice of actuators

Part numbers

	Type	Function	Connections
MADE TO ORDER	Reduced force 83118 S1	I (Changeover)	W3

Specifications

Electrical characteristics

Rating nominal / 250 VAC (A)	5
Rating thermal / 250 VAC (A)	17

Mechanical characteristics

Maximum operating force (N)	3
Min. Release force (N)	30
Operating position (mm)	16 ^{±0,4}
Min. overtravel (mm)	0,3
Mechanical life (operations)	5x10 ⁶
Maximum total travel force (N)	3
Max. permitted overtravel force (N)	30
Maximum rest position (mm)	16,6
Differential travel (mm)	0,03 → 0,09
Ambient operating temperature (°C)	- 40 → +125
Contact gap (mm)	0,5
Weight (g)	21

Additional specifications

Components

Material

- Case : thermoset UL94V0
- Contacts : pure silver

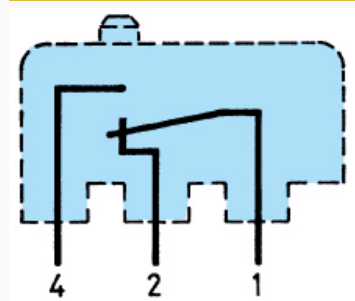
Levers

- Flexible stainless steel

Other levers

- Passivated mild steel (zinc), self-retaining screws

Principles



Dimensions (mm)

Product

831180 / 83118 S1

Dimensions (mm)

Connections

W1 screw

Dimensions (mm)

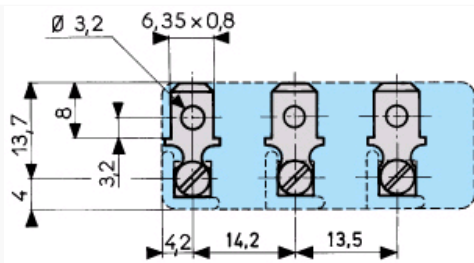
Connections

W2 solder

Dimensions (mm)

Connections

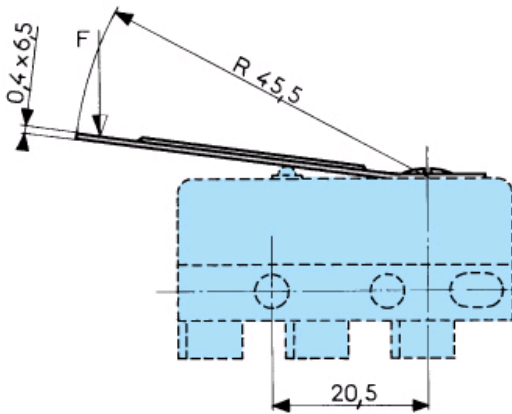
W3 for 6.35 mm clips



Dimensions (mm)

Actuators

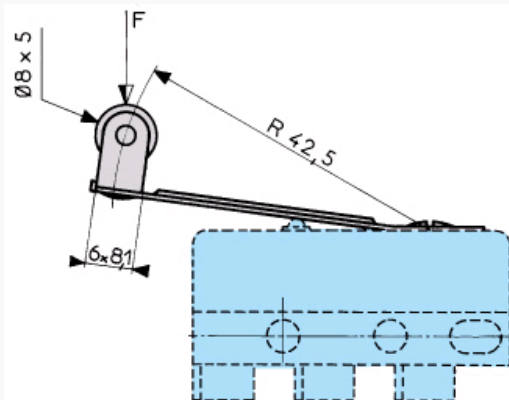
52A



Dimensions (mm)

Actuators

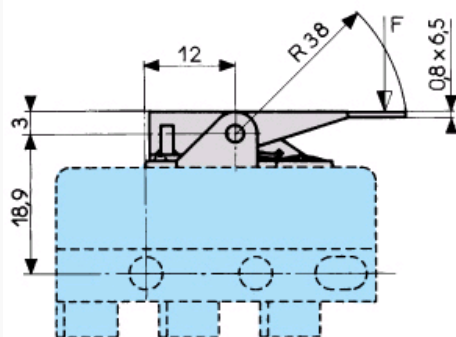
52B



Dimensions (mm)

Actuators

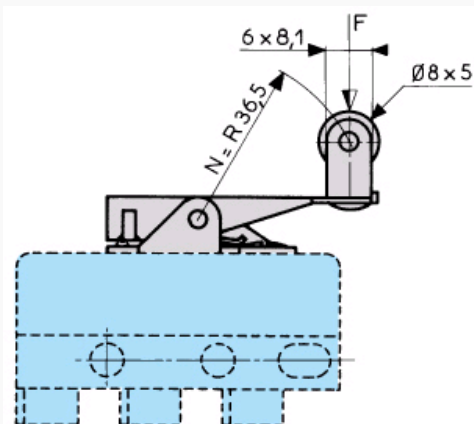
52M



Dimensions (mm)

Actuators

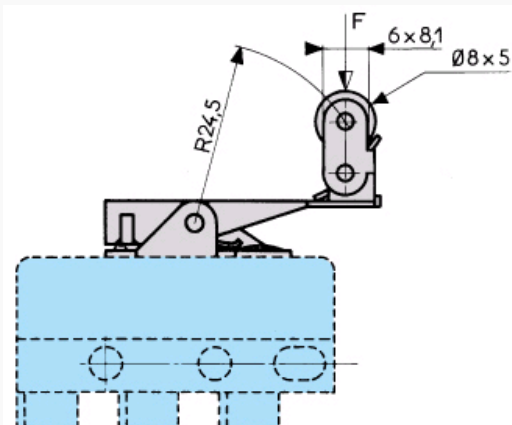
52N



Dimensions (mm)

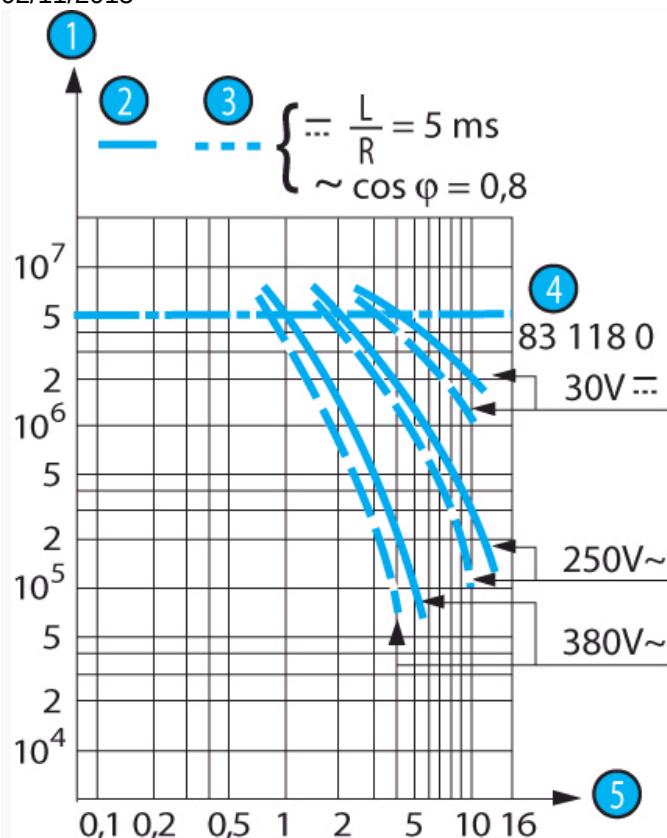
Actuators

52V



Curves

Operating curve for types 831180 - 83118 S1



N°	Legend
1	Number of cycles
2	Resistive circuit
3	Inductive circuit
4	Mechanical life limit
5	Current in Amps

Connections

Actuators and fixing positions

Part numbers for actuators

Flexible direct-acting actuators: 52A - 52B	52A R45.5	52B R42.5	52M R38	52N R36.5	52V R24.5	70 520 029	
Hinged reverse-action actuators: 52M - 52N - 52V							
							
Operating force - max.	N	83 118 0 2.5	83 118 S1 1.4	83 118 0 0.85	83 118 S1 1.5	83 118 0 1.4	83 118 S1 2.5
Release force - min.	N	0.8	0.55	0.27	0.4	0.4	0.6
Pre-travel - max.	mm	4.5		2		1.5	
Differential travel	mm	0.45 ^{+0.21}		0.3 ^{+0.15}		0.16 ^{+0.08}	
Total travel max.	mm	7		10		5	

Other information

Mounting - Operation

See basic technical concepts

Product adaptations



- Special levers
- Special connections, temperatures
- Approvals : UL - cUL

Mouser Electronics

Authorized Distributor

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Crouzet:

[831180C1.N](#) [831180C2.0](#) [831180C2.B](#) [831180C3.M](#) [831181C1.D](#) [831181C1.M](#) [831194C1.0](#) [831200C3.E](#)
[831180C2.N](#) [831180C3.0](#) [831180C3.B](#) [831181C1.0](#) [831181C1.N](#) [831181C1.P](#) [831200C1.T](#) [831200C3.0](#)
[831200C3.T](#) [831180C1.0](#) [831180C1.A](#) [831180C1.V](#) [831180C1.M](#) [831190C1.0](#) [831194C3.0](#) [831200C1.0](#)
[831200C1.E](#) [831200C1.J](#) [831181C1.V](#) [831180C1.B](#) [831180C1.E](#) [831180C1.F](#) [831180C1.J](#) [831180C1.L](#) [83118030](#)
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