



PRODUCT INFORMATION

S820

Snap-action switch with positive opening operation

Compared to our standard snap-action switch series the S820 Series switches are equally well-ried but feature a higher current-carrying capacity and an even more ruggedized design.

Application:

- Suitable for use under adverse ambient conditions that require increased shock and vibration resistance
- In high demand with e.g. medium-voltage switch-gear and controlgear

Features:

- High electrical rating
- Increased resistance to shock and vibration
- Positive opening operation with long overtravel
- Changeover contacts (NO + NC)
- Galvanically isolated double-break contacts
- Degree of protection IP40 (IEC 60529)

Approvals:

- Following VDE 0660, part 200
- Following EN 60947-5-1, IEC 60947-5-1

For more detailed information about this series please refer to our catalogue **D20e**.

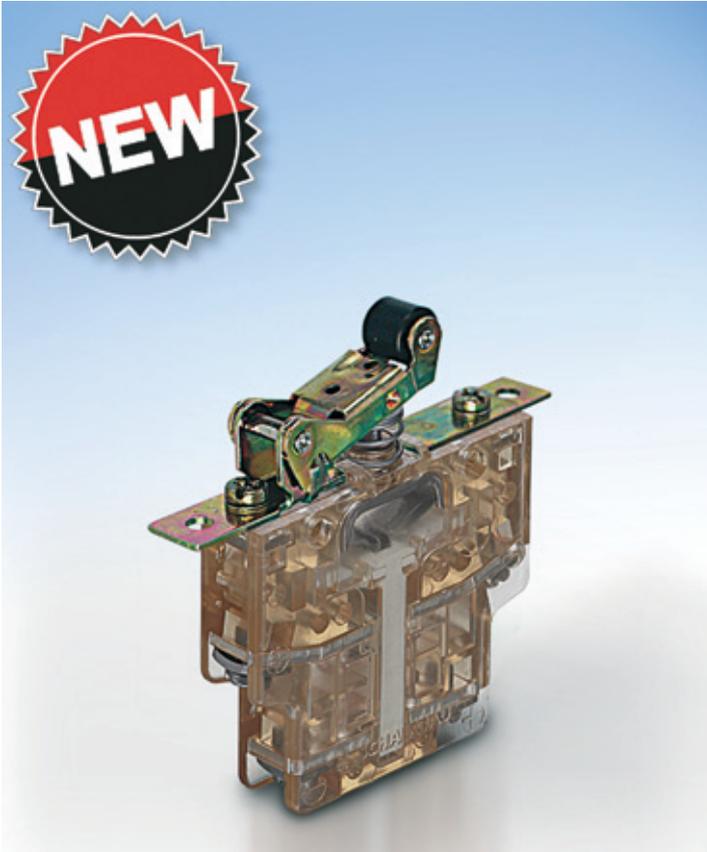
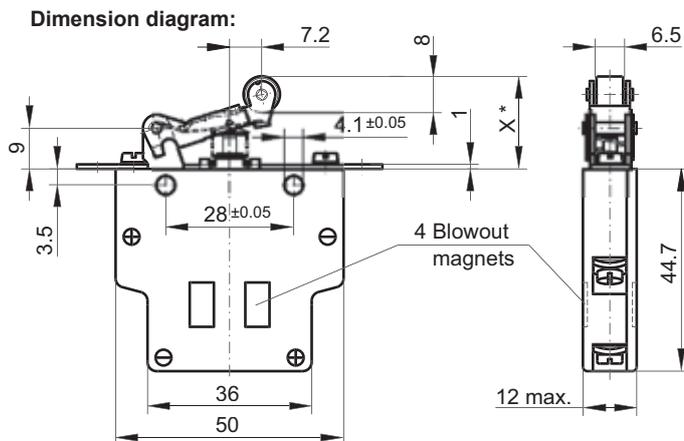
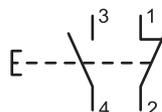


Photo: S820, version IP40 with roller lever and fixing brackets

Dimension diagram, Circuit diagram



Circuit diagram:



Technical Data

Series	S820
Conventional thermal current I_{th}	20 A at $T_u = 85^\circ\text{C}$
Utilization category for silver contacts*	AC 15, 230 V AC / 1.5 A DC 13, 110 V DC / 1.0 A
Rated impulse withstand voltage U_{imp}	4 kV
Pollution degree	3
Degree of protection (IEC 60529)	IP40
Actuating force	18.0 N max.
Reset force	2.0 N min.
Total actuator travel	4.0 mm
Contact type	NO + NC
Contact material	AgCu3 / AgSnO2
Mechanical endurance	1 million operations
Temperature range	$-40^\circ\text{C} \dots +85^\circ\text{C}$
Vibration resistance	Plunger 25 g Roller lever 20 g
Shock resistance	50 g, half sinus
Dimensions	50 x 45 x 12 mm
Weight	47 g

* Data for gold contacts upon request