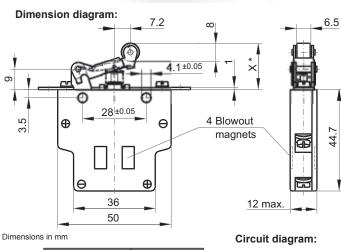


#### PRODUCT INFORMATION



Dimension diagram, Circuit diagram



Actuator position	Dimension X
Free position	$20.40~\text{mm}\pm0.5~\text{mm}$
Operating position	15.60 mm ± 0.5 mm
Reset position	18.85 mm ± 0.5 mm
End of positive opening operation	13.60 mm
Total travel position	$12.25~\text{mm}\pm0.5~\text{mm}$

### Schaltbau GmbH Hollerithstrasse 6 81829 Munich Germany S1781/0403/0.5 Printed in Germany by Schaltbau GmbH

# Snap-action switch with

positive opening operation

Compared to our standard snap-action switch series the S820 Series switches are equally well-tried 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 switchgear 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**.

## **Technical Data**

Series	S820
Conventional thermal current I <sub>th</sub>	20 A at $T_u = 85^{\circ}C$
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 <sub>imp</sub>	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°C+85℃
Vibration resistance 10 500 Hz, all directions	Plunger 25 g Roller lever 20 g
Shock resistance	50 g, half sinus
Dimensions	50 x 45 x 12 mm
Weight	47 g

+49 89 93005-0 Phone +49 89 93005-350 Fax e-mail contact@schaltbau.de Internet www.schaltbau.com

We reserve the right to make technical alterations without prior notice. For updated product information visit www.schaltbau-gmbh.com. Issued 02-2011

