



3SE4 Miniature Limit Switches Selection

Non-safety
3SE4 miniature limit switches

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Additional Information



- Complete Switches, see page 9/159.
- Technical Data, see page 9/160
- Dimensions and Operating Characteristics, see page 9/160.

Features

- UL Recognized, CSA Certified.
Meets or Exceeds Other International Standards.
- Miniature Size, Best Suited in Limited Space Applications.
- Four Contact Configurations for Application Flexibility.
- Plunger Actuation.
- NEMA B300, P300 Contact Ratings.

Design

Miniature open type position switches can be used in applications such as automatic control functions and automatic door interlocking. **3SE4105** and **3SE4145** versions have direct opening action to DIN VDE 0113/2.86 and Publications 204-1 and 2. The NC contact is mechanically forced open by the plunger if the contact is slightly welded.

Contact arrangements include 1 NO, 1 NC, 1 NC + 1 NC and 2 NO (slow action only).

Contacts are of the bridge construction.

Selector and ordering data

Contact configuration	Minimum operation force along plunger axis lb. (N)	Tab connector In. (mm)	Snap-action contacts	Slow-action contacts
			Catalog no.	Catalog no.
1 NO 	1.1 (5) 1.1 (5) 1.4 (6)	0.24-0.03 (6.3-0.8) 0.11-0.03 (2.8-0.8) 0.24-0.03 (6.3-0.8)	- - 3SE4006	3SE4005 3SE4045 -
1 NC 	0.7 (3) 0.7 (3) 1.4 (6)	0.24-0.03 (6.3-0.8) 0.11-0.03 (2.8-0.8) 0.24-0.03 (6.3-0.8)	- - 3SE4106	3SE4105 3SE4145 -
1 NO + 1 NC 	1.1 (5) 1.1 (5) 1.4 (6)	0.24-0.03 (6.3-0.8) 0.11-0.03 (2.8-0.8) 0.24-0.03 (6.3-0.8)	- - 3SE4206	3SE4205 3SE4245 -
2 NO 	1.6 (7)	0.24-0.03 (6.3-0.8)	-	3SE4305

All dimensions shown in inches and (millimeters).

For reference purposes only. Not to be used for design for construction purposes.

3SE4 Miniature Limit Switches

General Information



**Non-safety
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Technical data

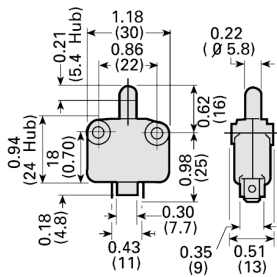
Type	3SE4005, 3SE4006, 3SE4105, 3SE4106, 3SE4205, 3SE4206, 3SE4305		3SE4045, 3SE4145, 3SE4245	
Insulation rating	AC 400V, DC 450V			
Mechanical life	1 + 10 ⁶ make-break operations			
Electrical life	1 + 10 ⁶ make-break operations			
Temperature Range	-20 to +85° C, -4 to +185° F			
Degree of Protection	IP00/IP40			
Terminals/Compartment				
Connection	6.3–0.8 mm tab connectors suitable for push-on sleeves 6.3–1 (up to 1 mm ²) or 6.3–2.5 (up to 2.5 mm ²) to DIN 46 247		2.8–0.8 mm tab connectors suitable for push-on sleeves 2.8–0.25 (up to 0.25 mm ²) 2.8–0.5 (up to 0.5 mm ²) or 2.8–1 (up to 1 mm ²) to DIN 46 247	
Conductor Size	14 AWG			
NEMA Ratings	DC, NEMA P300		AC, NEMA B300	
Maximum current at	125V	250V	120V	240V
Make	1.1A	0.55A	30A	15A
Break	1.1A	0.55A	3A	1.5A
Maximum volt-ampere				
Make	138V	138V	3600VA	3600VA
Break	138V	138V	360VA	360VA
Rated thermal current / Rated operating voltage	AC12, 16A, AC15, 6A max. DC13, 10A max.		AC12/15, 6A max. DC13, 5A max.	

Dimensions and operating characteristic

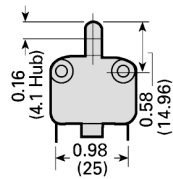
With slow-action contacts

With snap-action contacts

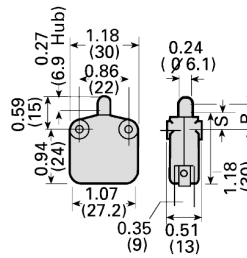
3SE4005, 3SE4045



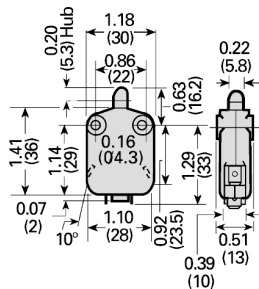
3SE4105, 3SE4145



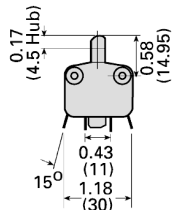
3SE4006



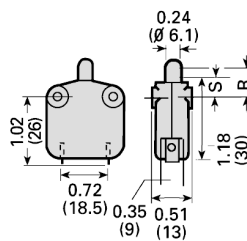
3SE4305



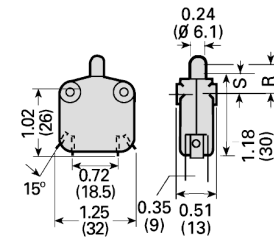
3SE4205, 3SE4245



3SE4006



3SE4006



Slow-action contact		
Type	Contact closes after (mm)	Opens
3SE4 005, 3SE4 045	2.7+0.6	—
3SE4 105, 3SE4 145	—	immediately
3SE4 205, 3SE4 245	2+0.5	immediately
3SE4 305	1.75+0.75	—

Snap-action contact		
Type	Switching S	Resetting point R
3SE4 006	12.3 ± 0.5	14 ± 0.5
3SE4 106	12.3 ± 0.5	14 ± 0.5
3SE4 206	12.6 ± 0.5	14 ± 0.5

} Contact gap ≥ 3 mm

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