

A switching element has one or two current circuits arranged at the angle of 180° and equipped with contact with a double contact gap. Each of them consists of two stationary contacts and one movable contact bridge. The contact bridge is switched on (pressed) by contact springs, and opened by a cam inside the switching element. The cams in individual switching elements are firmly coupled together, ensuring practically simultaneous switching (on and off) of all contacts. Thanks to the double gap contact assembly and contact tips made of special alloy containing silver and very resistant to effects of an electric arc, high switching capabilities and contact life have been obtained. Good clicking mechanism of a motion work ensures unfailing switching of moving contacts in respective fixed positions. The power springs of the clicking mechanism are different, depending on the number of the switching elements. According to individual requirements, cam switches can be made with the switching angles given in table 2.

Table 140. CONNECTION ANGLES

Group		A0	A1	A2	A3	maximum number of handle positions
Connection angle	30°	•	•	•	•	12
	45°	•	•	•		8
	60°	•	•	•	•	6
	90°	•	•	•	•	4

Special stops are used to fix proper positions. Switching elements, driving mechanism and a rear plate (mounting plate) are connected into one unit with insulating bolts.

Special versions of cam switches can have more than 12 switching elements.

SUB-ASSEMBLIES

Front plate

Complete front plate consists of:



- a front plate with a place with black frame for a text; - an indicating plate cover (transparent),
- indicating plate (under the cover, standard version is white with black signs).

According to requirements, this plate can be black, yellow or silver.

HANDLE

The handle is used to control the switch. Black is a standard colour. According to requirements, the handles can be supplied in red colour.

Table 141. HANDLE TYPES

Group	A0	A1	A2	A3
	R012 red R014 black (standard)	R112 red R114 black (standard)	R212 red R214 black (standard)	R312 red R314 black (standard)
		R122 red R124 black	R222 red R224 black	R322 red R324 black