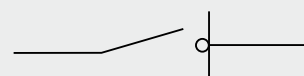


Cam switches technical data (acc. to CSN EN 60947-3)

Type range	VSN 10	VSN 16	VSN 20	VSN 25	VSN 32	VSN 40	VSN 63	VSN 75	VSN 80	VSN 100	VSN 125	VSN 150	VSN 250
	VSR 10	VSR 16	VSR 20										
Impuls withstand voltage (Uimp)	4 kV	4 kV	4 kV	6 kV	6 kV	6 kV	6 kV	6 kV	6 kV	6 kV	6 kV	6 kV	6 kV
Visolation voltage (Ui)	690 V	690 V	690 V	690 V	690 V	690 V	690 V	690 V	690 V	690 V	690 V	690 V	690 V
Thermal current without cover (Ith)	15 A	20 A	25 A	35 A	32 A	50 A	70 A	90 A	100 A	125 A	150 A	175 A	250 A
Thermal current with cover (Ithe)	10 A	16 A	20 A	25 A	32 A	40 A	63 A	75 A	80 A	100 A	125 A	150 A	250 A
Nominal on-load voltage (Ue)	400/500 V AC			400/500 V AC			400/500 V AC			400/500 V AC			400/500 V AC
Working current (Ie)	AC21	10 A	16 A	20 A	25 A	32 A	40 A	63 A	80 A	100 A	125 A	160 A	250 A
	AC 23	10 A	16 A	20 A	25 A	30 A	35 A	40 A	50 A	55 A	60 A	65 A	100 A
	AC 3	8 A	12 A	14 A	18 A	22 A	25 A	30 A	35 A	40 A	45 A	50 A	55 A
Short-circuit switching capacity (Icm)	200 A	230 A	280 A	300 A	450 A	500 A	750 A	1000 A	1000 A	1500 A	2000 A	2500 A	4000 A
Short-term withstand current (Icw / 1s)	300 A	400 A	500 A	600 A	750 A	900 A	1200 A	1500 A	1500 A	2000 A	2500 A	3000 A	4500 A
Working frequency	50 Hz			50 Hz			50 Hz			50 Hz			50 Hz
Conductor diameter in mm (under the screw), only for Copper conductors	1 - 4 mm ²			4 - 10 mm ²			10 - 25 mm ²			25 - 70 mm ²			lug connector Ø 12 mm
Maximum number of switching positions	12			12			12			8			8
Maximum number of levels	12			12			12			6			4
Maximum number of contacts	24			24			24			12			8
Control shaft size	5 x 5 mm			6 x 6 mm			6 x 6 mm			6 x 6 mm			6 x 6 mm
Electrical endurance in AC3 and AC23 classes acc. to CSN EN 60947-3 (number of cycles)	150 000 for AC23	100 000 for AC23	80 000 for AC23	70 000 for AC23	60 000 for AC23	40 000 for AC23	30 000 for AC23	10 000 for AC23	15 000 for AC23	12 000 for AC23	6 000 for AC23	5 000 for AC23	200 for all categories
	100 000 for AC3	70 000 for AC3	50 000 for AC3	50 000 for AC3	40 000 for AC3	30 000 for AC3	20 000 for AC3	6 000 for AC3	100 000	100 000	100 000	100 000	1 400
	250 000	250 000	250 000	150 000	150 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	1 400
Mechanical endurance (number of cycles)	IP 20			IP 20			IP 20			IP 20	IP 20	IP 20	IP 00
Protection	IP 65			IP 65			IP 65			IP 65	IP 65	IP 65	IP 65
From Front	900			800			300			120			60
Maximum switching frequency / h	-40 / +55 °C			-40 / +55 °C			-40 / +55 °C			-40 / +55 °C			-40 / +55 °C
Weather resistance	any			any			any			any			any
Mounting position	any			any			any			any			any
Connection screw	torx Nr. 15			torx Nr. 25			imbus Nr.3			imbus Nr.4			M12
Maximum tightening torque	1 Nm			3 Nm			3 Nm			4 Nm			allen screw - 4 Nm M12 screw - 14 Nm
Dimensions	43 x 43 mm			60 x 60 mm			60 x 60 mm			79 x 79 mm			153 x 97 mm
Front mounting pitch	30 mm			30 mm / 50 mm			30 mm / 50 mm			50 mm			50 mm
Max. length of conductor stripping	10 mm			13 mm			13 mm			20 mm			dependant on terminal lug

All cam switches meet the requirements of CSN EN 60 947-3, Section 2.3 - disconnectors.



All cam switches can be used for nominal voltage levels of 400 V AC and 500 V AC.

Requirement for application of VSN 10 - VSN 75 in the 500 V AC network must be declared in the order..