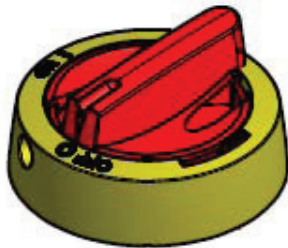


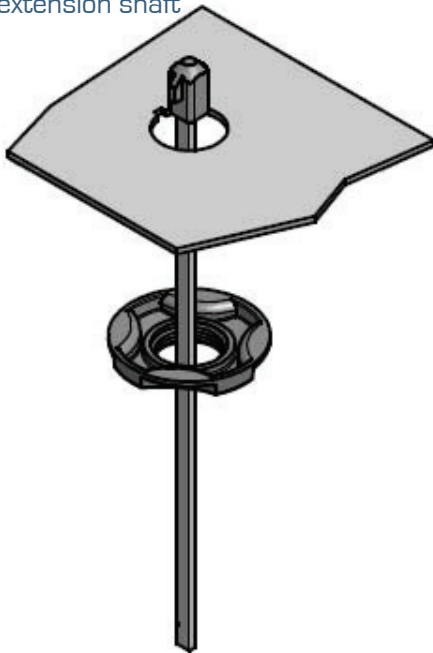
LOAD BREAK SWITCHES 16-800 A ROTARY AND TOGGLE SWITCHES

ASSEMBLY EXAMPLE

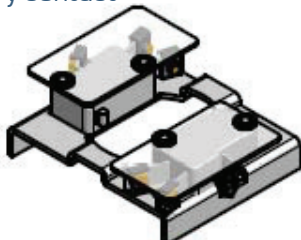
LK10 handle



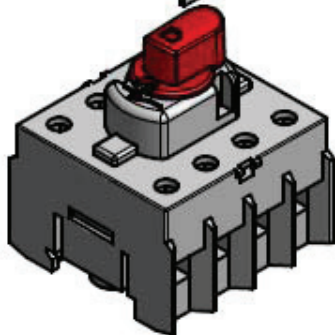
L=200 AD11 extension shaft



“Snap-on” Auxiliary contact



4P KU-switch



General information:

The professional range of KATKO Load Break Switches consists of rotary and toggle switches. Types KU, VKA and VKE are rotary switches while KUE and EVA are toggle switches. The KATKO range is available from 16 A up to 800 A. Also 1000-3150 A is available on request.

- KU/VKA 16 - 250 A
- KUE/EVA 16 - 250 A
- VKE 125 - 630 A
- KU 630 - 800 A

Rotary switches are available as 3-pole, 4-pole, 6-pole and 8-pole. Katko switches are rated up to 690V (KU 800 A switch is rated 400 A at 1000V). Katko Load Break Switches comply with and are tested according to IEC 60 947-3, IEC 60 269-2, UL 60947-4-1A (16-150 A), CCA, CB, ISO 9001, ISO 14001 and RINA (KU, VKA, KKV332).

Features:

- Compact size
- DIN-rail mounting
- Double break with silver rivets
- 12.5 mm air gap in open position
- AC-23, 690 V
- 50 kA RMS
- Position indicator
- Snap-on auxiliary contacts
- Adjustable shaft
- Door interlock
- Lockable handles
- Load break (will break at least 8xAC-23 current)

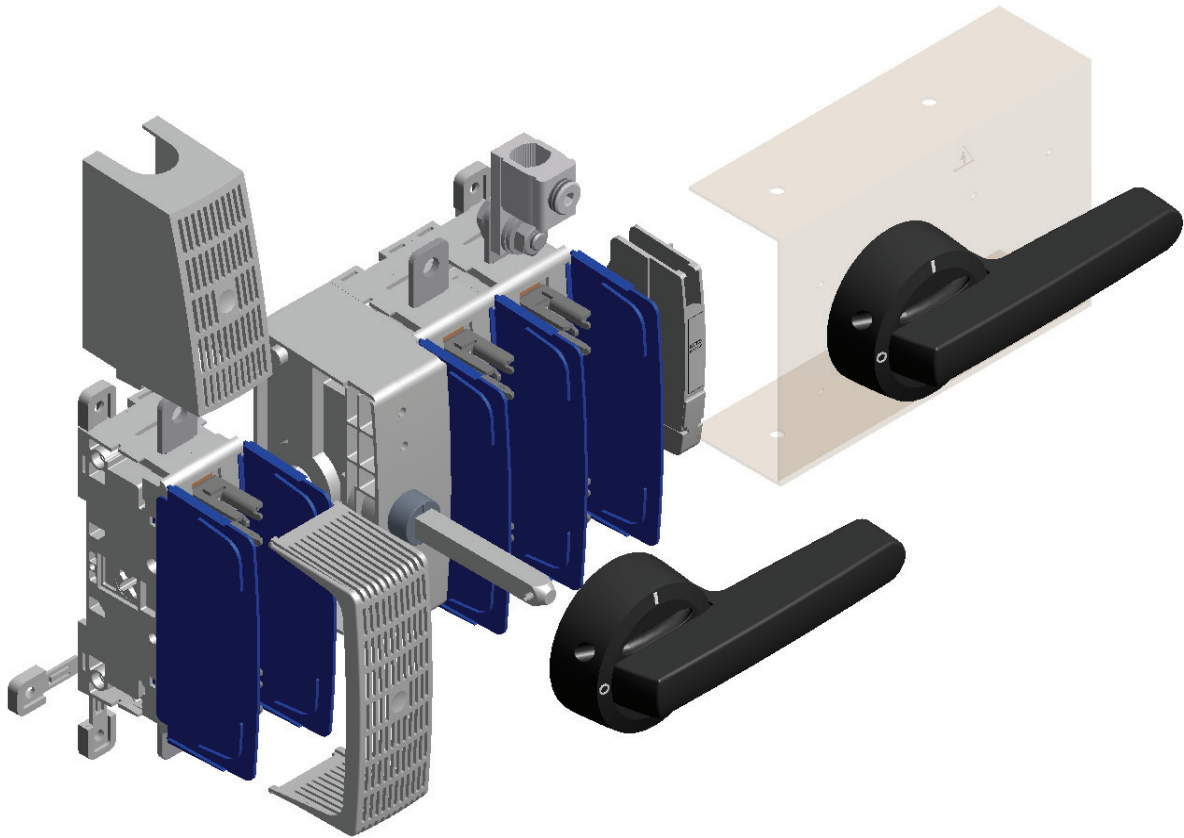
LOAD BREAK SWITCHES 16-250 A ROTARY AND TOGGLE SWITCHES



LOAD BREAK SWITCHES		16A	25A	40A	63A	80A	100A	125A			160A		200A		250A	
		KU /	KU /	KU /	KU /	KU /	KU	KUE	EVA	KU	EVA	KU	VKA	EVA	VKA	EVA
		KUE	KUE	KUE	KUE	KUE										
Rated insulation voltage, U_i [V]		800	800	800	800	800	800	690	690	800	690	800	1000	690	1000	690
Rated thermal current, I_{th} [A]		25	40	63	80	100	125	125	160	160	200	200	200	200	250	250
Nominal values with cable size [mm ²]		4	10	16	25	35	70	50	70	70	95	95	95	95	120	120
Rated operational current, I_n [A]																
AC-21	400/415V	25	40	63	80	100	125	125	160	160	200	160	200	200	250	250
	500V	25	40	63	80	100	125	125	-	160	-	160	200	-	250	-
	690V	25	40	63	80	100	125	125	-	160	-	160	200	-	250	-
AC-22	400/415V	16	25	40	63	80	100	125	125	125	160	160	200	200	250	250
	500V	16	25	40	63	80	100	80	-	125	-	160	-	-	-	-
	690V	16	25	40	63	80	100	80	-	125	-	160	-	-	-	-
AC-23	400/415V	16	25	40/25	40	63	100	63	80	125	125	160	200	160	250	200
	500V	16	25/20	32/20	40/32	40/32	63	32	-	80	-	100	-	-	-	-
	690V	16	25/20	32/20	40/32	40/32	63	32	-	80	-	100	-	-	-	-
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors [kW]																
AC-23	400/415V	7.5	11	15/11	22	30	55	30	45	55	75	90	110	75	132	90
	500V	7.5	15/11	22/11	30/22	30/22	37	22	55	55	75	55	-	-	-	-
	690V	11	22/15	30/15	37/30	37/30	55	30	55	75	90	90	-	-	-	-
Rated fused short circuit current																
Back-up fuse [A]		63	63	63	80	80	160	125	160	160	160	160	250	250	250	250
R.M.S. value, I_s [kA]		50	50	50	50	50	65	30	50	65	50	65	50	50	50	50
Peak value [kA]		7.2	7.2	7.2	8.7	8.7	15	10	15	15	15	15	22	21	22	21
Impulse withstand voltage, U_{wm} [kV]		8	8	8	8	8	8	8	8/6	8	8/6	8	8	6	8	6
Rated short circuit making capacity, I_{sm} [kA]																
690V		2.5	2.5	2.5	3.1**	3.1**	8	3.3	5.1	8	5.1	8	11.4*	11.4*	11.4*	11.4*
Rated short time withstand current (1 s), I_{sw} [kA]																
690V		1.7	1.7	1.7	2.0	2.0	5	2.3	3.5	5	3.5	5	6.5*	6.5*	6.5*	6.5*
Rated breaking capacity, I_{br} [A]																
AC-23	400/415V	128	200	256/200	320	504	800	504	800	1000	840	1280	1600	1600	2000	1600
	500V	128	200/160	256/160	320/256	320/256	504	320	640	640	1000	800	-	-	-	-
	690V	128	200/160	256/160	320/256	320/256	504	320	640	640	1000	800	-	-	-	-
Electrical endurance (operations)		3000	3000	3000	3000	3000	2000	3000	2000	2000	2000	2000	2000	2000	2000	2000
Mechanical endurance (operations)		50000	50000	50000	50000	50000	16000	50000	16000	16000	16000	16000	16000	16000	16000	16000
Terminals / Bolt size Cu [mm ²]		1.5-16	1.5-16	1.5-16	2.5-35	2.5-35	6-70	2.5-50	6-70	6-70	6-70	6-70	M8	M8	M8	M8
Max terminal torque [Nm]		1.8	1.8	1.8	2.5	2.5	6	2.5	6	6	6	6	15-22	15-22	15-22	15-22
*415 V **2.5 kA when CCC marked																

LOAD BREAK SWITCHES 125-800 A

TECHNICAL DATA FOR VKE & KU SERIES



Structure of a modular switch fuse

LOAD BREAK SWITCHES		VKE						KU	
		125 A	160 A	200 A	250 A	315 A	400 A	630 A	800 A
Rated insulation voltage, U_i [V]		690	690	1000	1000	1000	1000	1000	1000
Rated thermal current, I_{th} [A]		160	160	200	250	315	400	630	800
Nominal values with cable size [mm ²]		70	70	95	120	185	240	2x185	2x240
Rated operational current, I_n [A]									
AC-21	400/415V	160	160	200	250	315	400	630	800
	500V	160	160	200	250	315	400	630	800
	690V	160	160	200	250	315	400	630	800
AC-22	400/415V	125	160	200	250	315	400	630	800
	500V	125	160	200	250	315	400	630	800
	690V	125	160	200	250	315	400	630	800
AC-23	400/415V	125	125	200	250	315	400	630	800
	500V	125	125	200	250	315	400	500	800
	690V	125	125	200	250	315	400	500	800
	1000V	-	-	-	-	-	-	-	400
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors [kW]									
AC-23	400/415V	55	55	110	132	160	200	355	400
	500V	75	75	132	160	200	250	355	560
	690V	90	90	160	250	315	355	500	800
Rated fused short circuit current									
Back-up fuse [A]		125	160	250	250	400	400	630	800
R.M.S. value, I_{sc} [kA]		80	80	80	80	80	80	80	100
Peak value [kA]		12	12	18	18	26	26	32	76
Impulse withstand voltage, U_{imp} [kV]		8	8	12	12	12	12	12	12
Rated short circuit making capacity, I_{sm} [kA]									
690V		6	6	7	7	12	12	17	60
Rated short time withstand current [1 s], I_{st} [kA]									
690V (*1000V)		4	4	5	5	7	7	10	*28
Rated breaking capacity, I_{br} [A]									
AC-23	400/415V	1000	1000	1600	2000	2520	3200	5040	6400
	500V	1000	1000	1600	2000	2520	3200	4000	5040
	690V	1000	1000	1600	2000	2520	3200	4000	5040
Electrical endurance (number of operations)		2000	2000	2000	2000	2000	2000	2000	2000
Mechanical endurance (number of operations)		16000	16000	16000	16000	1000	10000	10000	10000
Terminals / Bolt size Cu [mm ²]		6-70	6-70	M10	M10	M10	M10	M12	M12
Max terminal torque [Nm]		6	6	30-44	30-44	30-44	30-44	50-75	50-75