




 **LoadSafe**



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LOAD BREAK & CHANGE-OVER SWITCHES

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SWITCHES WITHOUT COMPROMISES.

Katko is a Finnish electrical industry company, specializing in designing, manufacturing, and delivering leading solutions for the electrical installation sector. At KATKO, we are pioneering high-quality electrical switches and other installation products. Our commitment to sustainability and installer-friendly solutions sets us apart in the industry. Supported by our extensive network of distribution partners and manufacturing facilities in Finland and Poland, we are able to ensure the availability of our solutions in over 70 countries around the globe.

ROBOTICS AND HANDWORK. THE BEST OF BOTH WORLDS.

We manufacture all of our safety switches, load break switches, fused switches and terminal blocks in our own production plants in Finland and Poland. A high level of automation is part of Katko's DNA that ensures a consistent quality level in our products. Katko's flexible and adaptive production philosophy even facilitates the manufacture of smaller batches in a competitive manner. Furthermore, we can provide our customers with more tailored products, and we are ready to do so. This is where Katko's motivated and professional staff come in. We employ approximately 120 people, two thirds of whom are in Finland.

Taking care of people and the environment are among the most important values of our family business. Our environmental thinking is guided by factors such as efficient raw material use, energy-efficient production and the quality and life-cycle of the end product. All of the materials used in our production processes are 100% recyclable. Sales office was opened in Dubai in 2007. Today, Katko products are sold in more than 60 countries on all continents.



SWITCHES ACCORDING TO IEC 60947-3

SWITCH

A mechanical switching device capable of making, carrying and breaking currents under normal circuit conditions which may include specified operating overload conditions and also carrying for a specified time currents under specified abnormal circuit conditions such as those of short circuit. Note: A switch may be capable of making, but not breaking, short-circuit currents.

DISCONNECTOR

A mechanical switching device which, in the open position, complies with the requirements specified for the isolating function.

Disconnecter: (working definition) device without on-load making and breaking capacity.

SWITCH DISCONNECTOR / LOAD BREAK SWITCH

A switch capable of making, carrying and breaking currents under normal circuit conditions and which, in the open position, complies with the isolating requirements specified for a disconnector.

UTILIZATION CATEGORY

Utilization category	Use / Application
AC-20A	Connecting and disconnecting under no-load.
AC-21A	Switching of resistive loads including moderate overloads
AC-22A	Switching of mixed loads, inductive and resistive loads including moderate overloads
AC-23A	Switching of motor loads or other highly inductive loads
AC-23Ae rotor	Switching of motor loads with higher locked currents *

* Requirements given by asynchronous motors of design NE and HE, according to IEC 60034-12, having extended/higher locked rotor apparent power and current than design N and H respectively, to achieve a higher efficiency class according to the requirements of IEC 60034-30-1.

PROTECTION AGAINST OVERVOLTAGE

U_{imp} (Impulse withstand voltage) defines the device's use in abnormal network conditions with overvoltage due to lightning on overhead wires etc.

This characteristic also defines the device's dielectric quality. Overvoltage protection is ensured by choosing the equipment according to U_{imp} . The 4 impulse withstand categories of use at 400V/ 690V (IEC 60364-4-44) are:

Category	U_{imp}	Applications
1	2,5 kV	specially protected equipment
2	4 kV	Portable tools, motors, etc.
3	6 kV	Equipment placed in distribution networks
4	8 kV	Equipment placed at the head of an installation.

The U_{imp} rating for most of the Katko switches is 8kV.

INSTALLATION ENVIRONMENT TEMPERATURE

To assure the best of operation of KATKO switches the ambient air temperature of installation environment should be in the range of -40°C to + 60°C.

When the ambient temperatures exceed +40°C, the maximum load of the switch may have to be derated. Please contact KATKO for assistance.

CONFORMITY TO STANDARDS

Katko switches are designed to comply with both national and international standards.

-Switches tested acc. to IEC 60947

-AC-23A / 690V ratings (KU 250, 400 & 800A AC-23A 1000V)

-50 kA R.M.S values

-CB certificates

--UL (US) and c_{UL} listed (Canada): UL 60947-4-1A

LOAD BREAK SWITCHES 16-800 A ROTARY AND TOGGLE SWITCHES

General information:

The professional range of KATKO Load Break Switches consists of rotary and toggle switches. Types KU and VKA 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 16 - 800 A
- KUE 16 - 125 A
- VKA 200 - 250 A
- EVA 200 - 250 A

Rotary switches are available as 3-pole, 4-pole, 6-pole and 8-pole. Katko switches are rated up to 690V (KU 800, 400 and 250 A switches are rated up to 1000V). Katko Load Break Switches comply with and are tested according to:

Standards:

IEC 60947-3

IEC 60269-2

UL 60947-4-1A (16-150 A) (please refer to UL section for exact offering)

Approvals and certificates:

CCA

CB

Lloyd's Register (KU 16 - 160 A)

VDE (KU 16 - 40 A & 200 - 800 A)

Manufacturing and quality processes:

ISO 9001

ISO 14001

General installation and life-cycle manual

Katko's general installation manual is available on Katko's website at www.katko.com/terms-conditions.

This manual contains important information about installation and maintenance of Katko's products and must be read by any user of Katko products.

TECHNICAL DATA

LOAD BREAK SWITCHES

LOAD BREAK SWITCHES		KU ROTARY LBS																		
		16A	25A	40A	16A (N)	25A (N)	40A (N)	63A (N)	80A (N)	100A (N)	125A (N)	125A	160A	160A (P)	200A	250A	315A	400A	630A	800A
Rated insulation voltage, U _i (V)		800	800	800	800	800	800	800	800	800	800	800	800	1000	1000	1000	1000	1000	1000	1000
Rated thermal current, I _m (A)		25	40	63	25	40	63	80	100	125	125	160	200	200	250	315	315	400	630	800
Nominal values with cable size (mm²)		4	10	16	4	10	16	25	35	70	50	70	95	95	95	120	185	240	2x185	2x300
Rated operational current, I _e (A)																				
AC-21A	400/415V	25	40	40	25	40	63	80	100	125	125	160	160	160	200	250	315	400	630	800
	500V	25	40	40	25	40	63	80	100	125	125	160	160	160	200	250	315	400	630	800
	690V	25	40	40	25	40	63	80	100	125	125	160	160	160	200	250	315	400	630	800
AC-22A	400/415V	16	25	40	16	25	40	63	80	100	125	125	160	160	200	250	315	400	630	800
	500V	16	25	40	16	25	40	63	80	100	80	125	160	160	200	250	315	400	630	800
	690V	16	25	40	16	25	40	63	80	100	80	125	160	160	200	250	315	400	630	800
AC-23A	400/415V	16	25	40	16	25	40	40	63	100	63	125	160	160	200	250	315	400	630	800
	500V	16	25	25	16	25	32	40	40	63	40	80	100	160	200	250	315	400	630	800
	690V	16	25	25	16	25	32	40	40	63	40	80	100	160	200	250	315	400	630	800
	1000V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	135	-	200	-	400
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW)																				
AC-23A	400/415V	7.5	11	22	7.5	11	22	22	30	55	30	55	90	90	110	132	160	200	355	400
	500V	7.5	15	15	7.5	15	22	30	30	37	30	55	55	110	132	160	200	250	400	560
	690V	11	22	22	11	22	30	37	37	55	37	75	90	132	160	250	315	355	630	800
Rated fused short circuit current																				
Back-up fuse (A)		25	25	40	40	40	40	80	80	160	125	160	160	250	250	250	400	400	630	800
R.M.S. value, I _k (kA)		50	50	25	50	50	50	50	50	65	30	65	65	100***	100***	100***	100	100	100	100
Peak value (kA)		3.8	3.8	4.5	6.0	6.0	6.0	8.7	8.7	15	10	15	15	26	26	26	42	42	76	76
Impulse withstand voltage, U _{imp} (kV)		8	8	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12
Rated short circuit making capacity, I _{cm} (kA)																				
	690V	1	1	1	2.5	2.5	2.5	3.1**	3.1**	8	3.1**	8	8	14	14	14	27,5	27,5	60	60
Rated short time withstand current (1 s), I _{scw} (kA)																				
	690V	0,7	0,7	0,7	1.7	1.7	1.7	2.0	2.0	5	2.0	5	5	8***	8***	8***	13.5***	13.5***	28***	28***
Rated breaking capacity, I _{cn} (A)																				
AC-23A	400/415V	128	200	320	128	200	320	320	504	800	504	1000	1280	1280	1600	2000	2520	3200	5040	6400
	500V	128	200	200	128	200	256	320	320	504	320	640	800	1280	1600	2000	2520	3200	5040	6400
	690V	128	200	200	128	200	256	320	320	504	320	640	800	1280	1600	2000	2520	3200	5040	6400
Electrical endurance (number of operations)		3000	3000	3000	3000	3000	3000	3000	3000	2000	3000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Mechanical endurance (number of operations)		50000	50000	50000	50000	50000	50000	50000	50000	16000	50000	16000	16000	16000	16000	16000	10000	10000	10000	10000
Terminals / Bolt size Cu (mm²)		1.5-16	1.5-16	1.5-16	1.5-16	1.5-16	1.5-16	2.5-35	2.5-35	6-70	2.5-35	6-70	6-70	M8	M8	M8	M10	M10	M12	M12
Max terminal torque (Nm)		1.8	1.8	1.8	1.8	1.8	1.8	2.5	2.5	6	2.5	6	6	15-22	15-22	15-22	30-44	30-44	50-75	50-75
* 415 V																				
** 2.5kA when CCC marked																				
*** 1000V																				
**** 50kA with 315A fuse																				

TECHNICAL DATA

LOAD BREAK SWITCHES

KUE TOGGLE LBS						EVA TOGGLE LBS		VKA ROTARY LBS		LOAD BREAK SWITCHES	
16A	25A	40A	63A	80A	125A	200A	250A	200A	250A		
800	800	800	800	800	690	690	690	1000	1000	Rated insulation voltage, U _i (V)	
25	40	63	80	100	125	200	250	200	250		
4	10	16	25	35	50	95	120	95	120	Nominal values with cable size (mm ²)	
Rated operational current, I _n (A)											
25	40	63	80	100	125	200	250	200	250	400/415V	AC-21A
25	40	63	80	100	125	-	-	200	250	500V	
25	40	63	80	100	125	-	-	200	250	690V	
16	25	40	63	80	125	200	250	200	250	400/415V	AC-22A
16	25	40	63	80	80	-	-	-	-	500V	
16	25	40	63	80	80	-	-	-	-	690V	
16	25	25	40	63	63	160	200	200	250	400/415V	AC-23A
16	20	20	32	32	32	-	-	-	-	500V	
16	20	20	32	32	32	-	-	-	-	690V	
-	-	-	-	-	-	-	-	-	-	1000V	
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW)											
7.5	11	11	22	30	30	75	90	110	132	400/415V	AC-23A
7.5	11	11	22	22	22	-	-	-	-	500V	
11	15	15	30	30	30	-	-	-	-	690V	
Rated fused short circuit current											
63	63	63	80	80	125	250	250	250	250	Back-up fuse (A)	
50	50	50	50	50	30	50	50	50	50	R.M.S. value, I _k (kA)	
7.2	7.2	7.2	8.7	8.7	10	21	21	22	22	Peak value (kA)	
8	8	8	8	8	8	6	6	8	8	Impulse withstand voltage, U _{imp} (kV)	
Rated short circuit making capacity, I _{cm} (kA)											
2.5	2.5	2.5	3.1**	3.1**	3.3	11.4*	11.4*	11.4*	11.4*	690V	
Rated short time withstand current (1 s), I _{scw} (kA)											
1.7	1.7	1.7	2.0	2.0	2.3	6.5*	6.5*	6.5*	6.5*	690V	
Rated breaking capacity, I _{cn} (A)											
128	200	200	320	504	504	1600	1600	1600	2000	400/415V	AC-23A
128	160	160	256	256	320	-	-	-	-	500V	
128	160	160	256	256	320	-	-	-	-	690V	
3000	3000	3000	3000	3000	3000	2000	2000	2000	2000	Electrical endurance (number of operations)	
50000	50000	50000	50000	50000	50000	16000	16000	16000	16000	Mechanical endurance (number of operations)	
1.5-16	1.5-16	1.5-16	2.5-35	2.5-35	2.5-50	M8	M8	M8	M8	Terminals / Bolt size Cu (mm²)	
1.8	1.8	1.8	2.5	2.5	2.5	15-22	15-22	15-22	15-22	Max terminal torque (Nm)	
* 415 V											
** 2.5kA when CCC marked											
*** 1000V											
**** 50kA with 315A fuse											

LOAD BREAK SWITCHES 16-40 A ROTARY SWITCHES LOADSAFE KU & RT SERIES



- DIN-rail or screw mounting
- 3-pole and 4-pole KU-switches as standard. 1- and 2-pole upon request
- 6- and 8-pole switches consist of two 3- or 4-pole switches and a parallel kit
- Switch technology by means of silver contacts ensures safe and durable operation
- Compatible with handles LKX50 and LK10
- KU 3- and 4-pole will be delivered with black direct handle
- Available with fixed (NO) auxiliary contact or auxiliary contacts can be installed on either or both sides

KU SWITCHES

Type	EAN	E-number	AC-23A 400/415 V (A)	AC-23A 400/415 V (kW)	AC-23A 690 V (A)	AC-23A 690 V (kW)	Switch Type	Number of Poles
KU 316	6419410257692	3609687	16	7,5	16	11	Load Break Switch	3
KU 325	6419410257708	3609692	25	11	25	22	Load Break Switch	3
KU 340	6419410257715	3609693	40	22	25	22	Load Break Switch	3
KU 316NO	6419410260098	3662329	16	7,5	16	11	Load Break Switch	3+1
KU 325NO	6419410260081	3662331	25	11	25	22	Load Break Switch	3+1
KU 340NO	6419410260074	3662333	40	22	25	22	Load Break Switch	3+1
KU 416	6419410257722	3609694	16	7,5	16	11	Load Break Switch	4
KU 425	6419410257739	3609695	25	11	25	22	Load Break Switch	4
KU 440	6419410257746	3609696	40	22	25	22	Load Break Switch	4
KU 616	6419410337981	3663105	16	7,5	16	11	Load Break Switch	6
KU 625	6419410337998	3663104	25	11	25	22	Load Break Switch	6
KU 640	6419410338001	3663103	40	22	25	22	Load Break Switch	6
KU 816	6419410338018	3663102	16	7,5	16	11	Load Break Switch	8
KU 825	6419410338025	3663101	25	11	25	22	Load Break Switch	8
KU 840	6419410338032	3663100	40	22	25	22	Load Break Switch	8

KU640 (consists of: 2 x KU340 + PK40KU3P)



KU840 (consists of: 2 x KU440 + PK40KU4P)



- RT version is suitable for door mounting
- RT switch available in 3-pole version
- Easy and quick to install, when cable routing is efficiently done from the back of the switch, and installation does not require mounting screws
- Switch technology by means of silver contacts ensures safe and durable operation
- A handle is required for installation. The RT version is compatible with handles LKX50, LKX50YR, LK10RT, and LK10RTYR.

RT SWITCHES

Type	EAN	E-number	AC-23A 400/415 V (A)	AC-23A 400/415 V (kW)	AC-23A 690 V (A)	AC-23A 690 V (kW)	Switch Type	Number of Poles
RT 316 L42LKX50	6419410257753	3609699	16	7,5	16	11	Door mounting LBS	3
RT 325 L42LKX50	6419410257760	3610200	25	11	25	22	Door mounting LBS	3
RT 340 L42LKX50	6419410257777	3610201	40	22	25	22	Door mounting LBS	3
RT 316 L42LKX50YR	6419410257784	3610202	16	7,5	16	11	Door mounting LBS	3
RT 325 L42LKX50YR	6419410257791	3610204	25	11	25	22	Door mounting LBS	3
RT 340 L42LKX50YR	6419410257807	3610205	40	22	25	22	Door mounting LBS	3



RELATED ACCESSORIES



Type	Accessory	Description	For	EAN	E-number
PK40KU3P	Parallel kit	0-1, for extension of the 6-pole switch	KU 3-pole	6419410338049	3663106
PK40KU4P	Parallel kit	0-1, for extension of the 8-pole switch	KU 4-pole	6419410338056	3663107
LKX50	Handle	Black	All configurations	6419410257852	3609688
LKX50YR	Handle	Yellow/red	All configurations	6419410257869	3609697
LK10	Handle	Black	All configurations	6419410222539	3600934
LK10YR	Handle	Yellow/red	All configurations	6419410222553	3600935
LK10RT	Handle	Black	RT	6419410266526	3662701
LK10RTYR	Handle	Yellow/red	RT	6419410266533	3662702
L100AD11	Shaft	Length 100 mm, aluminium	All configurations	6419410253106	3662291
L200AD11	Shaft	Length 200 mm, aluminium	All configurations	6419410253113	3662292
L300AD11	Shaft	Length 300 mm, aluminium	All configurations	6419410253120	3662293
L100AD11VT	Shaft	Length 100 mm, steel, slanted	All configurations	6419410253168	3600231
L200AD11VT	Shaft	Length 200 mm, steel, slanted	All configurations	6419410253175	3600271
L300AD11VT	Shaft	Length 300 mm, steel, slanted	All configurations	6419410253182	3600272
1NO40KU	Auxiliary contact	1NO, screw connect	KU	6419410263914	3610339
1NC40KU	Auxiliary contact	1NC, screw connect	KU	6419410263921	3610340
1NO40QC	Auxiliary contact	1NO, quick connect	KU & RT	6419410263891	3610337
1NC40QC	Auxiliary contact	1NC, quick connect	KU & RT	6419410263907	3610338
1NO40RT	Auxiliary contact	1NO, screw connect	RT	6419410263938	3610341
1NC40RT	Auxiliary contact	1NC, screw connect	RT	6419410263945	3610342

TECHNICAL DATA

LOAD BREAK SWITCHES		KU & RT ROTARY LBS		
		16A	25A	40A
Rated insulation voltage, U_i (V)		800	800	800
Rated thermal current, I_{th} (A)		25	40	63
Nominal values with cable size (mm ²)		4	10	16
Rated operational current, I_n (A)				
AC-21A	400/415V	25	40	40
	500V	25	40	40
	690V	25	40	40
AC-22A	400/415V	16	25	40
	500V	16	25	40
	690V	16	25	40
AC-23A	400/415V	16	25	40
	500V	16	25	25
	690V	16	25	25
	1000V	-	-	-
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW)				
AC-23	400/415V	7.5	11	22
	500V	7.5	15	15
	690V	11	22	22
Rated fused short circuit current				
Back-up fuse (A)		25	25	40
R.M.S. value, I_k (kA)		50	50	25
Peak value (kA)		3.8	3.8	4.5
Impulse withstand voltage, U_{imp} (kV)		8	8	8
Rated short circuit making capacity, I_{sm} (kA)				
	690V	1	1	1
Rated short time withstand current (1 s), I_{stc} (kA)				
	690V	0,7	0,7	0,7
Rated breaking capacity, I_{bn} (A)				
AC-23	400/415V	128	200	320
	500V	128	200	200
	690V	128	200	200
Electrical endurance (number of operations)		3000	3000	3000
Mechanical endurance (number of operations)		50000	50000	50000
Terminals / Bolt size Cu (mm ²)		1.5-16	1.5-16	1.5-16
Max terminal torque (Nm)		1.8	1.8	1.8

6- AND 8-POLE CONFIGURATIONS

- For a 6- or 8-pole configuration
 - 2 x 3- or 4-pole KU switches
 - 1 x Parallel kit:
 - PK40KU3P (6-pole) or PK40KU4P (8-pole)

CONNECTORS

Type	EAN	E-number
KKL3X1X16T	6419410292945	1942148



DISCOVER MORE

All connectors and more information available in KATKO ConnectSafe Catalogue.
You will find it here: www.katko.com/downloads

LOAD BREAK SWITCHES 16-80 A & 125A (N) ROTARY SWITCHES LOADSAFE KU SERIES



- DIN-rail mounting
- 3-pole and 4-pole KU-switches as standard. 1- and 2-pole switches upon request
- Switch technology by means of silver contacts ensures safe and durable operation
- Compatible with handles LK10, LK11 and LKX50

SWITCHES

Type	EAN	E-number	AC-23A 400/415 V (A)	AC-23A 400/415 V (kW)	AC-23A 690 V (A)	AC-23A 690 V (kW)	Weight (kg)	Switch Type	Number of Poles
KU 316N	6419410214305	3600721	16	7,5	16	11	0,19	Load Break Switch	3
KU 325N	6419410214404	3600722	25	11	25	22	0,19	Load Break Switch	3
KU 340N	6419410214503	3635101	32	15	32	30	0,19	Load Break Switch	3
KU 363N	6419410214602	3600723	40	22	40	37	0,2	Load Break Switch	3
KU 380N	6419410214701	3635104	63	30	40	37	0,2	Load Break Switch	3
KU 3125N	6419410214824	3635431	63	30	40	37	0,2	Load Break Switch	3
KU 416N	6419410215005	3600731	16	7,5	16	11	0,23	Load Break Switch	4
KU 425N	6419410215203	3600732	25	11	25	22	0,23	Load Break Switch	4
KU 440N	6419410215500	3635102	32	15	32	30	0,23	Load Break Switch	4
KU 463N	6419410215906	3600733	40	22	40	37	0,25	Load Break Switch	4
KU 480N	6419410216002	3635105	63	30	40	37	0,25	Load Break Switch	4
KU 4125N	6419410216125	3635432	63	30	40	37	0,25	Load Break Switch	4

RELATED ACCESSORIES

Type	Accessory	Description	For	EAN	E-number
LK10	Handle	Black	3, 4, 6 or 8-pole	6419410222539	3600934
LK10YR	Handle	Yellow/red	3, 4, 6 or 8-pole	6419410222553	3600935
LK11	Handle	Black	3, 4, 6 or 8-pole	6419410222607	3600936
LK11YR	Handle	Yellow/red	3, 4, 6 or 8-pole	6419410222614	3600937
LK11IP69K	Handle	Black IP69K	3, 4, 6 or 8-pole	6419410483060	3600967
LK11YRIP69K	Handle	Yellow/red IP69K	3, 4, 6 or 8-pole	6419410483077	3600968
LKX50	Handle	Black	3, 4, 6 or 8-pole	6419410257852	3609688
LKX50YR	Handle	Yellow/red	3, 4, 6 or 8-pole	6419410257869	3609697
OKAKULK10	Door mounting kit	Black, for 3P switch, with LK10 handle	3-pole	6419410224656	3600268
OKAKULK10YR	Door mounting kit	Yellow/red, for 3P switch, with LK10 handle	3-pole	6419410224663	3600269
OKAKU4PLK10	Door mounting kit	Black, for 4P switch, with LK10 handle	4-pole	6419410224700	3600280
OKAKU4PLK10YR	Door mounting kit	Yellow/red, for 4P switch, with LK10 handle	4-pole	6419410224717	3600281
OKAKULK101V	Door mounting kit	1NO/1NC W/ door mounting, black	3-pole	6419410224106	3635084
OKA1VYR	Door mounting kit	1NO/1NC W/ door mounting, Y/R	3-pole	6419410224403	3600277
OKA2V	Door mounting kit	2NO/2NC W/ door mounting, black	3-pole	6419410224205	3635085
OKA2VYR	Door mounting kit	2NO/2NC W/ door mounting, Y/R	3-pole	6419410224502	3600278
L100AD11	Shaft	Length 100 mm, aluminium	3, 4, 6 or 8-pole	6419410253106	3662291
L200AD11	Shaft	Length 200 mm, aluminium	3, 4, 6 or 8-pole	6419410253113	3662292
L300AD11	Shaft	Length 300 mm, aluminium	3, 4, 6 or 8-pole	6419410253120	3662293
L100AD11VT	Shaft	Length 100 mm, steel, slanted	3, 4, 6 or 8-pole	6419410253168	3600231
L200AD11VT	Shaft	Length 200 mm, steel, slanted	3, 4, 6 or 8-pole	6419410253175	3600271
L300AD11VT	Shaft	Length 300 mm, steel, slanted	3, 4, 6 or 8-pole	6419410253182	3600272
KU1V	Auxiliary contact	1NO/1NC	3, 4, 6 or 8-pole	6419410300008	3600490
KU2V	Auxiliary contact	2NO/2NC	3, 4, 6 or 8-pole	6419410300107	3600491
KKU3P	Front plate	Grey plate, black direct handle	3-pole	6419410221600	3635066
KKU4P	Front plate	Grey plate, black direct handle	4-pole	6419410222805	3600940
KKU3PYR	Front plate	Yellow plate, red direct handle	3-pole	6419410221617	3600970
KKU4PYR	Front plate	Yellow plate, red direct handle	4-pole	6419410222812	3600971
RV66	Parallel kit	Length 66 mm, center shaft	2 x 3-pole	6419410226285	3600925
RV66S	Parallel kit	Length 66 mm, side shaft	2 x 3-pole	6419410226261	3600924
RV80	Parallel kit	Length 80 mm, center shaft	2 x 4-pole	6419410226308	3600926
RV80S	Parallel kit	Length 80 mm, side shaft	2 x 4-pole	6419410226292	3600960



TECHNICAL DATA

LOAD BREAK SWITCHES		KU ROTARY LBS					
		16A	25A	40A	63A	80A	125A (N)
Rated insulation voltage, U_i (V)		800	800	800	800	800	800
Rated thermal current, I_{th} (A)		25	40	63	80	100	125
Nominal values with cable size (mm ²)		4	10	16	25	35	50
Rated operational current, I_{op} (A)							
AC-21A	400/415V	25	40	63	80	100	125
	500V	25	40	63	80	100	125
	690V	25	40	63	80	100	125
AC-22A	400/415V	16	25	40	63	80	125
	500V	16	25	40	63	80	80
	690V	16	25	40	63	80	80
AC-23A	400/415V	16	25	40	40	63	63
	500V	16	25	32	40	40	40
	690V	16	25	32	40	40	40
	1000V	-	-	-	-	-	-
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW)							
AC-23	400/415V	7.5	11	15	22	30	30
	500V	7.5	15	22	30	30	30
	690V	11	22	30	37	37	37
Rated fused short circuit current							
Back-up fuse (A)		63	63	63	80	80	125
R.M.S. value, I_{sc} (kA)		50	50	50	50	50	30
Peak value (kA)		7.2	7.2	7.2	8.7	8.7	10
Impulse withstand voltage, U_{imp} (kV)		8	8	8	8	8	8
Rated short circuit making capacity, I_{sm} (kA)							
	690V	2.5	2.5	2.5	3.1**	3.1**	3.1**
	690V	1.7	1.7	1.7	2.0	2.0	2.0
Rated short time withstand current (1 s), I_{st} (kA)							
Rated breaking capacity, I_{br} (A)							
AC-23	400/415V	128	200	256	320	504	504
	500V	128	200	256	320	320	320
	690V	128	200	256	320	320	320
Electrical endurance (number of operations)		3000	3000	3000	3000	3000	3000
Mechanical endurance (number of operations)		50000	50000	50000	50000	50000	50000
Terminals / Bolt size Cu (mm ²)		1.5-16	1.5-16	1.5-16	2.5-35	2.5-35	2.5-35
Max terminal torque (Nm)		1.8	1.8	1.8	2.5	2.5	2.5
* 415 V							
** 2.5kA when CCC marked							

All connectors and more information available in KATKO ConnectSafe Catalogue.
You will find it here: www.katko.com/downloads

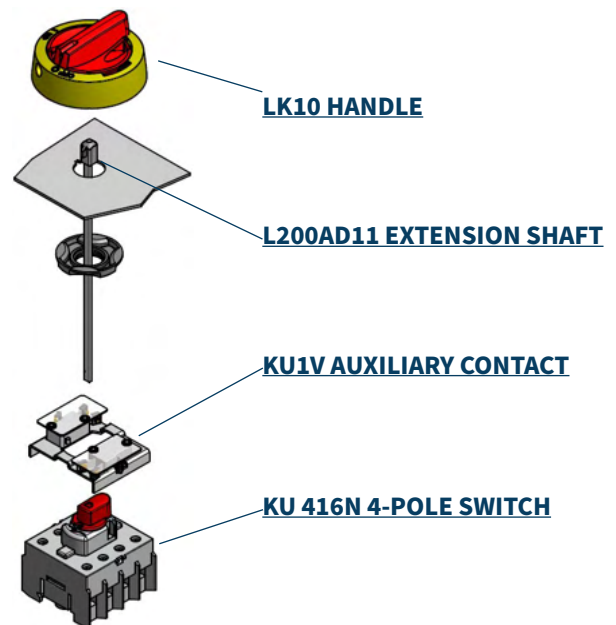
6- AND 8-POLE CONFIGURATIONS

- For a 6- or 8 -pole configuration
2 x 3- or 4-pole KU switches
1 x Parallel kit:
RV 66, RV 66S, RV 80, RV 80S
1 x External handle for 6- or 8-pole

CONNECTORS

Type	EAN	E-number
KKL1X16	6419410378496	1942079
KKL1X50M	6419410378519	1942081
KKL1X50T1	6419410378717	1942106
KKL1X50T2	6419410378502	1942080
KKL1X50T2E	6419410268100	1906700
KKL1X50T3	6419410378724	1942107

ASSEMBLY EXAMPLE KU 416N



DISCOVER MORE

LOAD BREAK SWITCHES 100-160 A ROTARY SWITCHES LOADSAFE KU SERIES



- Modular design
- DIN-rail or screw mounting
- 3- and 4-pole switches as standard
- 6- and 8-pole switches consist of two 3- or 4-pole switches and a parallel kit
- Switch technology by means of silver contacts ensures safe and durable operation
- Compatible with handles LK10, LK11 (3-and 4-poles), LK12 and LKX100 (6- and 8-poles)
- Shafts: L100/200/300AD11 and L100/200/300 AD11VT (3- and 4-poles), L100/200/300AD12T (6-and 8-poles)

SWITCHES

Type	EAN	E-number	AC-23A 400/415 V (A)	AC-23A 400/415 V (kW)	AC-23A 690 V (A)	AC-23A 690 V (kW)	Weight (kg)	Switch Type	Number of Poles
KU 3100	6419410203484	3600759	100	55	63	55	0,45	Load Break Switch	3
KU 3125	6419410203491	3600785	125	55	80	75	0,45	Load Break Switch	3
KU 3160	6419410203507	3600787	160	90	100	90	0,45	Load Break Switch	3
KU 4100	6419410203675	3600788	100	55	63	55	0,59	Load Break Switch	4
KU 4125	6419410203682	3600791	125	55	80	75	0,59	Load Break Switch	4
KU 4160	6419410203514	3600793	160	90	100	90	0,59	Load Break Switch	4
KU 6100	6419410203521	3600794	100	55	63	55	0,97	Load Break Switch	6
KU 6125	6419410203538	3600795	125	55	80	75	0,97	Load Break Switch	6
KU 6160	6419410203545	3600796	160	90	100	90	0,97	Load Break Switch	6
KU 8100	6419410203552	3600797	100	55	63	55	1,18	Load Break Switch	8
KU 8125	6419410203569	3600798	125	55	80	75	1,18	Load Break Switch	8
KU 8160	6419410203576	3600799	160	90	100	90	1,18	Load Break Switch	8

RELATED ACCESSORIES

Type	Accessory	Description	For	EAN	E-number
LK10	Handle	Black	3- & 4-pole	6419410222539	3600934
LK10YR	Handle	Yellow/red	3- & 4-pole	6419410222553	3600935
LK11	Handle	Black	3- & 4-pole	6419410222607	3600936
LK11YR	Handle	Yellow/red	3- & 4-pole	6419410222614	3600937
LK11IP69K	Handle	Black	3- & 4-pole	6419410483060	3600967
LK11YRIP69K	Handle	Yellow/red	3- & 4-pole	6419410483077	3600968
LKX100	Handle	Black	6- & 8-pole	6419410483565	3602850
LKX100YR	Handle	Yellow/red	6- & 8-pole	6419410483596	3602852
LK12	Handle	Black	6- & 8-pole	6419410222683	3600766
LK12YR	Handle	Yellow/red	6- & 8-pole	6419410222690	3600767
L100AD11VT	Shaft	Length 100 mm, steel, slanted	With LK10 and LK11 handles	6419410253168	3600231
L200AD11VT	Shaft	Length 200 mm, steel, slanted	With LK10 and LK11 handles	6419410253175	3600271
L300AD11VT	Shaft	Length 300 mm, steel, slanted	With LK10 and LK11 handles	6419410253182	3600272
L100AD12VT	Shaft	Length 100 mm, steel, slanted	With LK12 handle	6419410253076	3600938
L200AD12VT	Shaft	Length 200 mm, steel, slanted	With LK12 handle	6419410253083	3600922
L300AD12VT	Shaft	Length 300 mm, steel, slanted	With LK12 handle	6419410253090	3600917
PK160KU	Parallel Kit	Parallel kit	For 2 x 3- or 4-pole switches	6419410203668	3600816
1V160KU	Auxiliary contact	1NO/1NC	For all configurations	6419410300022	3600819
2V160KU	Auxiliary contact	2NO/2NC	For all configurations	6419410300114	3600825
LS160	Cover	Terminal cover for 3 poles	For all configurations. Covers 3 poles.	6419410203699	3600817
LSN160	Cover	Terminal cover for N-pole	4- & 8-pole and 4-pole change-over	6419410203705	3600818
VS160	Phase barrier	Phase barrier (1 pc)	For all configurations. Covers 3 poles.	6419410203835	3602891



TECHNICAL DATA

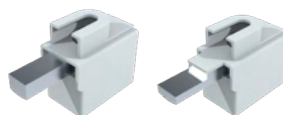
LOAD BREAK SWITCHES		KU ROTARY LBS		
		100A	125A	160A
Rated insulation voltage, U_i (V)		800	800	800
Rated thermal current, I_{th} (A)		125	160	200
Nominal values with cable size (mm ²)		70	70	95
Rated operational current, I_n (A)				
AC-21A	400/415V	125	160	160
	500V	125	160	160
	690V	125	160	160
AC-22A	400/415V	100	125	160
	500V	100	125	160
	690V	100	125	160
AC-23A	400/415V	100	125	160
	500V	63	80	100
	690V	63	80	100
	1000V	-	-	-
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW)				
AC-23	400/415V	55	55	90
	500V	37	55	55
	690V	55	75	90
Rated fused short circuit current				
Back-up fuse (A)		160	160	160
R.M.S. value, I_{sc} (kA)		65	65	65
Peak value (kA)		15	15	15
Impulse withstand voltage, U_{imp} (kV)		8	8	8
Rated short circuit making capacity, I_{sm} (kA)				
690V		8	8	8
Rated short time withstand current (1 s), I_{st} (kA)				
690V		5	5	5
Rated breaking capacity, I_{bn} (A)				
AC-23	400/415V	800	1000	1280
	500V	504	640	800
	690V	504	640	800
Electrical endurance (number of operations)		2000	2000	2000
Mechanical endurance (number of operations)		16000	16000	16000
Terminals / Bolt size Cu (mm ²)		6-70	6-70	6-70
Max terminal torque (Nm)		6	6	6

6- AND 8-POLE CONFIGURATIONS

- For a 6- or 8-pole configuration
 - 2 x 3- or 4-pole KU switches
 - 1 x Parallel kit: PK160KU
 - 1 x External handle (LK12) for 6- or 8-pole
 - 1 x Shaft for LK12

CONNECTORS

Type	EAN	E-number
KKL1X50T2	6419410378502	1942080
KKL1X120T	6419410378700	1942102



DISCOVER MORE

All connectors and more information available in KATKO ConnectSafe Catalogue.
You will find it here: www.katko.com/downloads

LOAD BREAK SWITCHES 200-250A & 160A (P) ROTARY SWITCHES LOADSAFE KU SERIES



reddot winner 2021
industrial design

Made of recyclable halogen-free V0 plastic and next generation modular design. LoadSafe KU 200-800 A range was awarded with Red Dot (2021) industrial product design award

- Reliable switch for demanding industrial applications
- Made of 100% recyclable thermoplastic material
- The modular structure enables the drive mechanism position to be varied, mention when ordering
- Easy to install auxiliary contacts (1V160KU & 2V160KU)
- Available with terminal covers (LS250F & LS250H) and phase barriers (VS250)
- Available with direct handle (Operation = Direct handle); or handle (LKX100) and shaft (T6 AD12, 200mm shaft) (Operation = External handle)
- Handle and shaft are included in the package
- Available with yellow/red handle (LKX100YR) and different length shaft when ordered separately
- 160 (P) model is an option for Katko's regular 160 A switch and suitable for industrial applications

SWITCHES

Type	EAN	E-number	AC-23A 690 V (A)	AC-23A 690 V (kW)	Weight (kg)	Operation	Switch Type	Number of Poles
External handle and shaft (included)								
KU 3200W L200AD12T6LKX100	6419410205198	3602984	200	160	1	External handle	Load Break Switch	3
KU 3250W L200AD12T6LKX100	6419410205204	3602985	250	250	1	External handle	Load Break Switch	3
KU 4200W L200AD12T6LKX100	6419410205211	3602986	200	160	1,3	External handle	Load Break Switch	4
KU 4250W L200AD12T6LKX100	6419410205228	3602987	250	250	1,3	External handle	Load Break Switch	4
KU 6200W L200AD12T6LKX100	6419410205235	3602988	200	160	2,1	External handle	Load Break Switch	6
KU 6250W L200AD12T6LKX100	6419410205242	3602989	250	250	2,1	External handle	Load Break Switch	6
KU 8200W L200AD12T6LKX100	6419410205259	3602990	200	160	2,6	External handle	Load Break Switch	8
KU 8250W L200AD12T6LKX100	6419410205266	3602991	250	250	2,6	External handle	Load Break Switch	8
KU 3160PW L200AD12T6LKX100	6419410205464	3609223	160	132	1	External handle	Load Break Switch	3
KU 4160PW L200AD12T6LKX100	6419410205471	3609224	160	132	1,3	External handle	Load Break Switch	4
KU 6160PW L200AD12T6LKX100	6419410205488	3609225	160	132	2,1	External handle	Load Break Switch	6
KU 8160PW L200AD12T6LKX100	6419410205495	3609226	160	132	2,6	External handle	Load Break Switch	8
Direct handle								
KU 3200W SV	6419410205310	3602996	200	160	1	Direct handle	Load Break Switch	3
KU 3250W SV	6419410205327	3602997	250	250	1	Direct handle	Load Break Switch	3
KU 4200W SV	6419410205334	3602998	200	160	1,3	Direct handle	Load Break Switch	4
KU 4250W SV	6419410205341	3602999	250	250	1,3	Direct handle	Load Break Switch	4
KU 6200W SV	6419410205426	3609219	200	160	2,1	Direct handle	Load Break Switch	6
KU 6250W SV	6419410205433	3609220	250	250	2,1	Direct handle	Load Break Switch	6
KU 8200W SV	6419410205440	3609221	200	160	2,6	Direct handle	Load Break Switch	8
KU 8250W SV	6419410205457	3609222	250	250	2,6	Direct handle	Load Break Switch	8
KU 3160PW SV	6419410205525	3609229	160	132	1	Direct handle	Load Break Switch	3
KU 4160PW SV	6419410205532	3609230	160	132	1,3	Direct handle	Load Break Switch	4
KU 6160PW SV	6419410205549	3609231	160	132	2,1	Direct handle	Load Break Switch	6
KU 8160PW SV	6419410205556	3609232	160	132	2,6	Direct handle	Load Break Switch	8

RELATED ACCESSORIES

Type	Accessory	Description	For	EAN	E-number
LKX100	Handle	Black handle	Standard external handle	6419410483565	3602850
LKX100YR	Handle	Yellow/red handle	Optional external handle	6419410483596	3602852
LS250H	Terminal cover	1-pole terminal cover. High model.	Use with vertical (VB & VM) cable connectors	6419410205419	3609218
LS250F	Terminal cover	1-pole terminal cover. Flush model.	Use with regular cable connectors	6419410205402	3609217
VS250	Phase Barrier	Phase barrier	For all configurations	6419410205396	3609216
L200AD12T6	Shaft	Length 200 mm, 6 mm steel shaft	Standard shaft with external handle	6419410271063	3609237
1V160KU	Auxiliary contact	1NO/1NC	For all configurations	6419410300022	3600819
2V160KU	Auxiliary contact	2NO/2NC	For all configurations	6419410300114	3600825



TECHNICAL DATA

LOAD BREAK SWITCHES		KU ROTARY LBS		
		160A (P)	200A	250A
Rated insulation voltage, U _i (V)		1000	1000	1000
Rated thermal current, I _{th} (A)		200	250	315
Nominal values with cable size (mm ²)		95	95	120
Rated operational current, I _e (A)				
AC-21A	400/415V	160	200	250
	500V	160	200	250
	690V	160	200	250
AC-22A	400/415V	160	200	250
	500V	160	200	250
	690V	160	200	250
AC-23A	400/415V	160	200	250
	500V	160	200	250
	690V	160	200	250
	1000V	-	-	135
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW)				
AC-23	400/415V	90	110	132
	500V	110	132	160
	690V	132	160	250
Rated fused short circuit current				
Back-up fuse (A)		250	250	250
R.M.S. value, I _r (kA)		100***	100***	100***
Peak value (kA)		26	26	26
Impulse withstand voltage, U _{imp} (kV)		12	12	12
Rated short circuit making capacity, I _{cm} (kA)				
690V		14	14	14
Rated short time withstand current (1 s), I _{sc} (kA)				
690V		8***	8***	8***
Rated breaking capacity, I _{bn} (A)				
AC-23	400/415V	1280	1600	2000
	500V	1280	1600	2000
	690V	1280	1600	2000
Electrical endurance (number of operations)		2000	2000	2000
Mechanical endurance (number of operations)		16000	16000	16000
Terminals / Bolt size Cu (mm ²)		M8	M8	M8
Max terminal torque (Nm)		15-22	15-22	15-22
*** 1000V				
**** 50kA with 315A fuse				

6- AND 8-POLE CONFIGURATIONS

- 6- and 8-pole configurations are factory assembled and cannot be self-assembled.
- 6- and 8-pole configurations are always supplied with an external handle and a shaft.

CONNECTORS

Type	EAN	E-number
KKL2X50	6419410378588	1942088
KKL1X95	6419410200230	1942129
KKL1X150	6419410378618	1942091
KKL2X150VM	6419410484302	1942111
KKL2X150VB	6419410484319	1942112
KLH2X150	6419410358580	1942117



DISCOVER MORE

All connectors and more information available in KATKO ConnectSafe Catalogue.
You will find it here: www.katko.com/downloads

LOAD BREAK SWITCHES 315-400 A ROTARY SWITCHES LOADSAFE KU SERIES



reddot winner 2021
industrial design



- Reliable switch for demanding industrial applications
- Made of 100% recyclable thermoplastic material
- The modular structure enables the drive mechanism position to be varied, mention when ordering
- Easy to install auxiliary contacts (1V160KU & 2V160KU)
- Available with terminal covers (LS400F & LS400H) and phase barriers (VS400)
- Available with direct handle (Operation = Direct handle); or handle (LKX150) and shaft (LVK228, 228mm shaft) (Operation = External handle)
- Handle and shaft are included in the package
- Available with yellow/red handle (LKX150YR) and different length shaft when ordered separately

Made of recyclable halogen-free V0 plastic and next generation modular design. LoadSafe KU 200-800 A range was awarded with Red Dot (2021) industrial product design award

SWITCHES

Type	EAN	E-number	AC-23A 690 V (A)	AC-23A 690 V (kW)	Weight (kg)	Operation	Switch Type	Number of Poles
External handle and shaft (included)								
KU 3315 LVK228LKX150	6419410300152	3602923	315	315	2,05	External handle	Load Break Switch	3
KU 3400 LVK228LKX150	6419410300169	3602924	400	355	2,05	External handle	Load Break Switch	3
KU 4315 LVK228LKX150	6419410300176	3602925	315	315	2,49	External handle	Load Break Switch	4
KU 4400 LVK228LKX150	6419410300183	3602926	400	355	2,49	External handle	Load Break Switch	4
KU 6315 LVK228LKX150	6419410300190	3602927	315	315	4,884	External handle	Load Break Switch	6
KU 6400 LVK228LKX150	6419410300213	3602928	400	355	4,884	External handle	Load Break Switch	6
KU 8315 LVK228LKX150	6419410300220	3602929	315	315	5,782	External handle	Load Break Switch	8
KU 8400 LVK228LKX150	6419410300237	3602930	400	355	5,782	External handle	Load Break Switch	8
Direct handle								
KU 3315 SV	6419410300282	3602935	315	315	2,05	Direct handle	Load Break Switch	3
KU 3400 SV	6419410300299	3602936	400	355	2,05	Direct handle	Load Break Switch	3
KU 4315 SV	6419410300312	3602937	315	315	2,49	Direct handle	Load Break Switch	4
KU 4400 SV	6419410300329	3602938	400	355	2,49	Direct handle	Load Break Switch	4

RELATED ACCESSORIES

Type	Accessory	Description	For	EAN	E-number
LS400H	Terminal cover	1-pole terminal cover. High model.	Use with vertical (VB & VM) cable connectors	6419410300398	3602945
LS400F	Terminal cover	1-pole terminal cover. Flush model.	Use with regular cable connectors	6419410300381	3602944
VS400	Phase Barrier	Phase barrier	For all configurations	6419410300374	3602943
1V160KU	Auxiliary contact	1NO/1NC	For all configurations	6419410300022	3600819
2V160KU	Auxiliary contact	2NO/2NC	For all configurations	6419410300114	3600825
LVK228	Shaft	Length 228 mm, steel	Delivered with external handle	6419410221440	3600348
LKX150	Handle	Black handle	Delivered as external handle	6419410483572	3602851
LKX150YR	Handle	Yellow/red handle	Option as external handle	6419410483602	3602853



TECHNICAL DATA

LOAD BREAK SWITCHES		KU ROTARY LBS	
		315A	400A
Rated insulation voltage, U _i (V)		1000	1000
Rated thermal current, I _{th} (A)		315	400
Nominal values with cable size (mm ²)		185	240
Rated operational current, I _o (A)			
AC-21A	400/415V	315	400
	500V	315	400
	690V	315	400
AC-22A	400/415V	315	400
	500V	315	400
	690V	315	400
AC-23A	400/415V	315	400
	500V	315	400
	690V	315	400
	1000V	-	200
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW)			
AC-23	400/415V	160	200
	500V	200	250
	690V	315	355
Rated fused short circuit current			
Back-up fuse (A)		400	400
R.M.S. value, I _k (kA)		100	100
Peak value (kA)		42	42
Impulse withstand voltage, U _{imp} (kV)		12	12
Rated short circuit making capacity, I _{sm} (kA)			
690V		27,5	27,5
Rated short time withstand current (1 s), I _{st} (kA)			
690V		13.5***	13.5***
Rated breaking capacity, I _{bn} (A)			
AC-23	400/415V	2520	3200
	500V	2520	3200
	690V	2520	3200
Electrical endurance (number of operations)		2000	2000
Mechanical endurance (number of operations)		10000	10000
Terminals / Bolt size Cu (mm ²)		M10	M10
Max terminal torque (Nm)		30-44	30-44
*** 1000V			

6- AND 8-POLE CONFIGURATIONS

- 6- and 8-pole configurations are factory assembled and cannot be self-assembled.
- 6- and 8-pole configurations are always supplied with an external handle and a shaft.

CONNECTORS

Type	EAN	E-number
KKL2X50	6419410378588	1942088
KKL1X95	6419410200230	1942129
KKL1X150	6419410378618	1942091
KKL2X150VM	6419410484302	1942111
KKL2X150VB	6419410484319	1942112
KLH2X150	6419410358580	1942117



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LOAD BREAK SWITCHES 630-800 A ROTARY SWITCHES LOADSAFE KU SERIES



reddot winner 2021
industrial design



- Reliable switch for demanding industrial applications
- Made of 100% recyclable thermoplastic material
- The modular structure enables the drive mechanism position to be varied, mention when ordering
- Easy to install auxiliary contacts (1V160KU & 2V160KU)
- Available with terminal covers (LS800F & LS800H) and phase barriers (VS800)
- Available with direct handle (Operation = Direct handle); or handle (LKX150) and shaft (LVK228, 228mm shaft) (Operation = External handle)
- Handle and shaft are included in the package
- Available with yellow/red handle (LKX150YR) and different length shaft when ordered separately

Made of recyclable halogen-free V0 plastic and next generation modular design. LoadSafe KU 200-800 A range was awarded with Red Dot (2021) industrial product design award

SWITCHES

Type	EAN	E-number	AC-23A 400/415 V (A)	AC-23A 400/415 V (kW)	AC-23A 690 V (A)	AC-23A 690 V (kW)	Weight (kg)	Operation	Switch Type	Number of Poles
External handle and shaft (included)										
KU 3630 LVK228LKX150	6419410483626	3602826	630	355	630	630	4,5	External handle	Load Break Switch	3
KU 3800 LVK228LKX150	6419410483633	3602827	800	400	800	800	4,5	External handle	Load Break Switch	3
KU 4630 LVK228LKX150	6419410483640	3602828	630	355	630	630	5,6	External handle	Load Break Switch	4
KU 4800 LVK228LKX150	6419410483657	3602829	800	400	800	800	5,6	External handle	Load Break Switch	4
KU 6630 LVK228LKX150	6419410483664	3602842	630	355	630	630	9	External handle	Load Break Switch	6
KU 6800 LVK228LKX150	6419410483671	3602843	800	400	800	800	9	External handle	Load Break Switch	6
KU 8630 LVK228LKX150	6419410483688	3602844	630	355	630	630	11,2	External handle	Load Break Switch	8
KU 8800 LVK228LKX150	6419410483695	3602845	800	400	800	800	11,2	External handle	Load Break Switch	8
Direct handle										
KU 3630 SV	6419410483992	3602883	630	355	630	630	4,5	Direct handle	Load Break Switch	3
KU 3800 SV	6419410484005	3602884	800	400	800	800	4,5	Direct handle	Load Break Switch	3
KU 4630 SV	6419410484012	3602885	630	355	630	630	5,6	Direct handle	Load Break Switch	4
KU 4800 SV	6419410484029	3602886	800	400	800	800	5,6	Direct handle	Load Break Switch	4

RELATED ACCESSORIES

Type	Accessory	Description	For	EAN	E-number
1V160KU	Auxiliary contact	1NO/1NC	For all configurations	6419410300022	3600819
2V160KU	Auxiliary contact	2NO/2NC	For all configurations	6419410300114	3600825
LVK228	Shaft	Length 228 mm, steel	Delivered with external handle	6419410221440	3600348
LKX150	Handle	Black handle	Delivered as external handle	6419410483572	3602851
LKX150YR	Handle	Yellow/red handle	Option as external handle	6419410483602	3602853
LS800F	Terminal cover	Terminal cover, low model	Use with regular cable connectors	6419410484487	3602913
LS800H	Terminal cover	Terminal cover, high model	Use with vertical (VB & VM) cable connectors	6419410484494	3602914
VS800	Phase barrier	Phase barrier	For all configurations	6419410483756	3602856
ALK800	Spreader	1 pcs	3 and 4-pole	6419410205884	3602982
ALK800C	Spreader	1 pcs	3-pole	6419410205877	3602983



TECHNICAL DATA

LOAD BREAK SWITCHES		KU ROTARY LBS	
		630A	800A
Rated insulation voltage, U_i (V)		1000	1000
Rated thermal current, I_{th} (A)		630	800
Nominal values with cable size (mm ²)		2x185	2x240
Rated operational current, I_e (A)			
AC-21A	400/415V	630	800
	500V	630	800
	690V	630	800
AC-22A	400/415V	630	800
	500V	630	800
	690V	630	800
AC-23A	400/415V	630	800
	500V	630	800
	690V	630	800
	1000V	-	400
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW)			
AC-23	400/415V	355	400
	500V	400	560
	690V	630	800
Rated fused short circuit current			
Back-up fuse (A)		630	800
R.M.S. value, I_k (kA)		100	100
Peak value (kA)		76	76
Impulse withstand voltage, U_{imp} (kV)		12	12
Rated short circuit making capacity, I_{cm} (kA)			
		690V	60
Rated short time withstand current (1 s), I_{cw} (kA)			
		690V	28***
Rated breaking capacity, I_{cn} (A)			
AC-23	400/415V	5040	6400
	500V	5040	6400
	690V	5040	6400
Electrical endurance (number of operations)		2000	2000
Mechanical endurance (number of operations)		10000	10000
Terminals / Bolt size Cu (mm ²)		M12	M12
Max terminal torque (Nm)		50-75	50-75
*** 1000V			

6- AND 8-POLE CONFIGURATIONS

- 6- and 8-pole configurations are factory assembled and cannot be self-assembled.
- 6- and 8-pole configurations are always supplied with an external handle and a shaft.

CONNECTORS

Type	EAN	E-number
KKL2X50	6419410378588	1942088
KKL1X95	6419410200230	1942129
KKL1X150	6419410378618	1942091
KKL2X150VM	6419410484302	1942111
KKL2X150VB	6419410484319	1942112
KLH2X150	6419410358580	1942117
KKL1X240	6419410378632	1942093
KKL2X240VM	6419410484326	1942113
KKL2X240VB	6419410484333	1942114
KLH2X240	6419410358597	1942118
KKL1X300	6419410484289	1942109
KKL2X300VM	6419410484340	1942115
KKL2X300VB	6419410484357	1942116
KLH2X300	6419410358603	1942119



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LOAD BREAK SWITCHES 200-250 A COMPACT ROTARY SWITCHES LOADSAFE VKA SERIES



- Compact size
- 3-pole and 4-pole VKA-switches as standard, 2-pole upon request
- Switch technology by means of silver contacts ensures safe and durable operation
- 200-250A: Handle LK12 for 200A-250A and shaft L228AD12T6 included, suitable for 250 mm panel board
- Terminal covers LSVKAC and phase barriers VSVKAC enable safe use

SWITCHES

Type	EAN	E-number	AC-23A 400/415 V (A)	AC-23A 400/415 V (kW)	Weight (kg)	Switch Type	Number of Poles
Without terminal covers							
VKA 3200 L228AD12T6LK12	6419410218020	3609240	200	110	1,4	Load Break Switch	3
VKA 3250 L228AD12T6LK12	6419410218044	3600226	250	132	1,4	Load Break Switch	3
VKA 4200 L228AD12T6LK12	6419410219126	3609241	200	110	1,6	Load Break Switch	4
VKA 4250 L228AD12T6LK12	6419410219140	3600228	250	132	1,6	Load Break Switch	4
With terminal covers							
VKA 3200 L228AD12T6LK12 2XLS4XVS	6419410218037	3609242	200	110	1,5	Load Break Switch	3
VKA 3250 L228AD12T6LK12 2XLS4XVS	6419410218051	3600227	250	132	1,5	Load Break Switch	3
VKA 4200 L228AD12T6LK12 2XLS6XVS	6419410219133	3609243	200	110	1,7	Load Break Switch	4
VKA 4250 L228AD12T6LK12 2XLS6XVS	6419410219157	3600229	250	132	1,7	Load Break Switch	4



RELATED ACCESSORIES

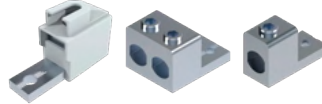
Type	Accessory	Description	For	EAN	E-number
LK12	Handle	Black	For all configurations	6419410222683	3600766
LK12YR	Handle	Yellow/red	For all configurations	6419410222690	3600767
LSVKAC	Terminal cover	Transparent blue plastic	For all configurations	6419410218099	3609238
VSVKAC	Phase barrier	Transparent white plastic	For all configurations	6419410218082	3609239
VKAC1V	Auxiliary contact	1NO/1NC	For all configurations	6419410300800	3600918
VKAC2V	Auxiliary contact	2NO/2NC	For all configurations	6419410300909	3600919
L228AD12T6	Shaft	Length 228 mm, steel	With LK12 handle	6419410271087	3600827

TECHNICAL DATA

LOAD BREAK SWITCHES		VKA ROTARY LBS	
		200A	250A
Rated insulation voltage, U (V)		1000	1000
Rated thermal current, I _{th} (A)		200	250
Nominal values with cable size (mm ²)		95	120
Rated operational current, I _e (A)			
AC-21A	400/415V	200	250
	500V	200	250
	690V	200	250
AC-22A	400/415V	200	250
	500V	-	-
	690V	-	-
AC-23A	400/415V	200	250
	500V	-	-
	690V	-	-
	1000V	-	-
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW)			
AC-23	400/415V	110	132
	500V	-	-
	690V	-	-
Rated fused short circuit current			
Back-up fuse (A)		250	250
R.M.S. value, I _r (kA)		50	50
Peak value (kA)		22	22
Impulse withstand voltage, U _{imp} (kV)		8	8
Rated short circuit making capacity, I _{sm} (kA)			
		690V	11.4*
Rated short time withstand current (1 s), I _{sc} (kA)			
		690V	6.5*
Rated breaking capacity, I _{bn} (A)			
AC-23	400/415V	1600	2000
	500V	-	-
	690V	-	-
Electrical endurance (number of operations)		2000	2000
Mechanical endurance (number of operations)		16000	16000
Terminals / Bolt size Cu (mm ²)		M8	M8
Max terminal torque (Nm)		15-22	15-22
* 415 V			

CONNECTORS

Type	EAN	E-number
KKL2X50	6419410378588	1942088
KKL1X95	6419410200230	1942129
KKL1X120RS	6419410378687	1942098



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LOAD BREAK SWITCHES 16-125 A TOGGLE SWITCHES LOADSAFE KUE SERIES



- DIN-rail mounting
- 3-poles
- Switch technology by means of silver contacts ensures safe and durable operation
- Available with adapter (AD1) to connect the switch to a three-phase section rail
- Available with yellow front plate and red toggle

SWITCHES

Type	EAN	E-number	AC-23A 400/415 V (A)	AC-23A 400/415 V (kW)	AC-23A 690 V (A)	AC-23A 690 V (kW)	Weight (kg)	Number of Poles
Without front plate								
KUE 316	6419410200308	3609244	16	7,5	16	11	0,17	3
KUE 325	6419410200407	3609245	25	11	20	15	0,17	3
KUE 340	6419410200506	3609246	25	11	20	15	0,17	3
KUE 363	6419410200605	3609247	40	22	32	30	0,18	3
KUE 380	6419410200704	3609248	63	30	32	30	0,18	3
KUE 3125	6419410200919	3635401	63	30	32	30	0,18	3
With front plate and AD1 adapter								
KUE 316 AD1KKUE	6419410200322	3609249	16	7,5	16	11	0,21	3
KUE 325 AD1KKUE	6419410200421	3609250	25	11	20	15	0,21	3
KUE 340 AD1KKUE	6419410200520	3635030	25	11	20	15	0,21	3
KUE 363 AD1KKUE	6419410200629	3609251	40	22	32	30	0,22	3
KUE 380 AD1KKUE	6419410200728	3635035	63	30	32	30	0,22	3
KUE 3125 AD1KKUE	6419410200834	3635402	63	30	32	30	0,22	3



RELATED ACCESSORIES

Type	Accessory	Description	For	EAN	E-number
KKUE	Front plate	Rectangular front plate, grey	For all configurations where front plate is not included	6419410221808	3635087
RKUE	Front plate	Round front plate, grey	For all configurations where front plate is not included	6419410221907	3635086

TECHNICAL DATA

LOAD BREAK SWITCHES		KUE TOGGLE LBS					
		16A	25A	40A	63A	80A	125A
Rated insulation voltage, U_i (V)		800	800	800	800	800	690
Rated thermal current, I_{th} (A)		25	40	63	80	100	125
Nominal values with cable size (mm ²)		4	10	16	25	35	50
Rated operational current, I_n (A)							
AC-21A	400/415V	25	40	63	80	100	125
	500V	25	40	63	80	100	125
	690V	25	40	63	80	100	125
AC-22A	400/415V	16	25	40	63	80	125
	500V	16	25	40	63	80	80
	690V	16	25	40	63	80	80
AC-23A	400/415V	16	25	25	40	63	63
	500V	16	20	20	32	32	32
	690V	16	20	20	32	32	32
	1000V	-	-	-	-	-	-
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW)							
AC-23	400/415V	7.5	11	11	22	30	30
	500V	7.5	11	11	22	22	22
	690V	11	15	15	30	30	30
Rated fused short circuit current							
Back-up fuse (A)		63	63	63	80	80	125
R.M.S. value, I_r (kA)		50	50	50	50	50	30
Peak value (kA)		7.2	7.2	7.2	8.7	8.7	10
Impulse withstand voltage, U_{imp} (kV)		8	8	8	8	8	8
Rated short circuit making capacity, I_{cm} (kA)							
	690V	2.5	2.5	2.5	3.1**	3.1**	3.3
Rated short time withstand current (1 s), I_{sw} (kA)							
	690V	1.7	1.7	1.7	2.0	2.0	2.3
Rated breaking capacity, I_{br} (A)							
AC-23	400/415V	128	200	200	320	504	504
	500V	128	160	160	256	256	320
	690V	128	160	160	256	256	320
Electrical endurance (number of operations)		3000	3000	3000	3000	3000	3000
Mechanical endurance (number of operations)		50000	50000	50000	50000	50000	50000
Terminals / Bolt size Cu (mm ²)		1.5-16	1.5-16	1.5-16	2.5-35	2.5-35	2.5-50
Max terminal torque (Nm)		1.8	1.8	1.8	2.5	2.5	2.5
** 2.5kA when CCC marked							

CONNECTORS

Type	EAN	E-number
KKL1X16	6419410378496	1942079
KKL1X50M	6419410378519	1942081
KKL1X50T1	6419410378717	1942106
KKL1X50T2	6419410378502	1942080
KKL1X50T2E	6419410268100	1906700
KKL1X50T3	6419410378724	1942107



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LOAD BREAK SWITCHES 200-250 A TOGGLE SWITCHES LOADSAFE EVA SERIES



- Switch technology by means of silver contacts ensures safe and durable operation

200-250 A:

- 3-pole and 4-pole
- Available with terminal covers and phase barriers (LSVS)
- Available also with red toggle (R)

SWITCHES

Type	EAN	E-number	AC-23A 400/415 V (A)	AC-23A 400/415 V (kW)	Weight (kg)	Switch Type	Number of Poles
200-250 A, without front plate and terminal covers							
EVA 3200	6419410203156	3609252	160	75	0,9	Load Break Switch	3
EVA 3250	6419410203200	3600806	200	90	0,9	Load Break Switch	3
EVA 3200 R	6419410203163	3609253	160	75	0,9	Load Break Switch	3
EVA 3250 R	6419410203217	3600807	200	90	0,9	Load Break Switch	3
EVA 4200	6419410203262	3600840	160	75	1,1	Load Break Switch	4
EVA 4250	6419410203309	3600841	200	90	1,1	Load Break Switch	4
EVA 4200 R	6419410203279	3600842	160	75	1,1	Load Break Switch	4
EVA 4250 R	6419410203316	3600843	200	90	1,1	Load Break Switch	4
200-250 A, with terminal covers and phase barriers							
EVA 3200 2XLS4XVS	6419410203170	3609254	160	75	0,9	Load Break Switch	3
EVA 3250 2XLS4XVS	6419410203224	3600808	200	90	0,9	Load Break Switch	3
EVA 3200 R 2XLS4XVS	6419410203187	3609255	160	75	0,9	Load Break Switch	3
EVA 3250 R 2XLS4XVS	6419410203231	3600809	200	90	0,9	Load Break Switch	3
EVA 4200 2XLS6XVS	6419410203286	3600844	160	75	1,2	Load Break Switch	4
EVA 4250 2XLS6XVS	6419410203323	3600845	200	90	1,2	Load Break Switch	4
EVA 4200 R 2XLS6XVS	6419410203293	3600846	160	75	1,2	Load Break Switch	4
EVA 4250 R 2XLS6XVS	6419410203330	3600847	200	90	1,2	Load Break Switch	4



RELATED ACCESSORIES

Type	Accessory	Description	For	EAN	E-number
ALK3160	Spreader	3P switch	3- & 4-pole and change-over	6419410225301	3635078
ALK4160	Spreader	4P switch	3- & 4-pole and change-over	6419410225400	3635079

TECHNICAL DATA

LOAD BREAK SWITCHES			
		200A	250A
Rated insulation voltage, U _i (V)		690	690
Rated thermal current, I _{th} (A)		200	250
Nominal values with cable size (mm ²)		95	120
Rated operational current, I _n (A)			
AC-21A	400/415V	200	250
	500V	-	-
	690V	-	-
AC-22A	400/415V	200	250
	500V	-	-
	690V	-	-
AC-23A	400/415V	160	200
	500V	-	-
	690V	-	-
	1000V	-	-
Rated operational power for 3-phase (1500 r.p.m.) squirrel cage induction motors (kW)			
AC-23	400/415V	75	90
	500V	-	-
	690V	-	-
Rated fused short circuit current			
Back-up fuse (A)		250	250
R.M.S. value, I _{sc} (kA)		50	50
Peak value (kA)		21	21
Impulse withstand voltage, U _{imp} (kV)		6	6
Rated short circuit making capacity, I _{sm} (kA)			
	690V	11.4*	11.4*
Rated short time withstand current (1 s), I _{scw} (kA)			
	690V	6.5*	6.5*
Rated breaking capacity, I _{bn} (A)			
AC-23	400/415V	1600	1600
	500V	-	-
	690V	-	-
Electrical endurance (number of operations)		2000	2000
Mechanical endurance (number of operations)		16000	16000
Terminals / Bolt size Cu (mm ²)		M8	M8
Max terminal torque (Nm)		15-22	15-22
* 415 V			

CONNECTORS

Type	EAN	E-number
KKL1X50T2	6419410378502	1942080
KKL1X120T3	6419410378540	1942084
KKL1X120T2	6419410378533	1942083
KKL1X120T1	6419410378526	1942082
KKL2X50	6419410378588	1942088
KKL1X95	6419410200230	1942129
KKL1X120RS	6419410378687	1942098



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UL98 LISTED 30-400 A ROTARY SWITCHES LOADSAFE KU SERIES



- General use rating 30 – 100 A / 600V AC, refer to detailed product specifications
- Lockable to off-position
- Modular design
- Switching speed is independent of the operator
- Switch technology by means of silver contacts ensures safe and durable operation
- Suitable for use on a circuit capable of delivering 50kA rms symmetrical, 600 Vac when protected by Class J, 60A/100A fuse.
- Change-over switches consist of two 3- or 4-pole switches.

SWITCHES

Type	EAN	Ampere rating 600 V	HP 240 V	HP 480 V	HP 600 V	Weight (lb/kg)	Switch Type	Number of Poles
KU 330UL98	6419410325827	30 A	15HP	30HP	50HP	0.99 / 0.45	Disconnect switch	3
KU 430UL98	6419410325834	30 A	15HP	30HP	50HP	0.99 / 0.45	Disconnect switch	4
KU 360UL98	6419410203712	60 A	20HP	40HP	60HP	0.99 / 0.45	Disconnect switch	3
KU 460UL98	6419410203736	60 A	20HP	40HP	60HP	0.99 / 0.45	Disconnect switch	4
KU 3100UL98	6419410203729	100 A	25HP	50HP	75HP	1.3 / 0.45	Disconnect switch	3
KU 4100UL98	6419410203743	100 A	25HP	50HP	75HP	1.3 / 0.45	Disconnect switch	4
KU 360COUL98	6419410203798	60 A	20HP	40HP	60HP	2.81 / 1.28	Change-over switch	3
KU 460COUL98	6419410203811	60 A	20HP	40HP	60HP	2.81 / 1.28	Change-over switch	4
KU 3100COUL98	6419410203804	100 A	25HP	50HP	75HP	2.2 / 1	Change-over switch	3
KU 4100COUL98	6419410203828	100 A	25HP	50HP	75HP	2.81 / 1.28	Change-over switch	4



RELATED ACCESSORIES

Type	Accessory	Description	For	EAN
LK10UL	UL Handle	Black	3- & 4-pole	6419410222577
LK10ULYR	UL Handle	Yellow/red	3- & 4-pole	6419410222584
LK11UL	UL Handle	Black	3- & 4-pole	6419410222515
LK11ULYR	UL Handle	Yellow/red	3- & 4-pole	6419410222522
L100AD11VT	Shaft	Length 100 mm, steel, slanted	With LK10 and LK11 handles	6419410253168
L200AD11VT	Shaft	Length 200 mm, steel, slanted	With LK10 and LK11 handles	6419410253175
L300AD11VT	Shaft	Length 300 mm, steel, slanted	With LK10 and LK11 handles	6419410253182
1V160KU	Auxiliary contact	1NO/1NC	For all configurations	6419410300022
2V160KU	Auxiliary contact	2NO/2NC	For all configurations	6419410300114
LS160	Cover	Terminal cover for 3 poles	For all configurations. Covers 3 poles.	6419410203699
LSN160	Cover	Terminal cover for N-pole	4-pole and 4-pole change-over	6419410203705

DISCOVER MORE



UL LISTED 16-150 A ROTARY & TOGGLE SWITCHES LOADSAFE SERIES



LSF 16 - 40



RT 16 - 40

KU 16 - 80 (N)



KUE 16 - 80



- UL 60947-4-1A
- General use rating 16 – 150 A / 600V AC, refer to detailed product specifications
- Switch technology by means of silver contacts ensures safe and durable operation
- Rotary and toggle switches

LSF & RT rotary switch
- 16-40 A
- DIN-rail or screw mounting (LSF) and door or side panel mounting (RT)
- Available with fixed (NO) auxiliary contact or with side-mounted

VKA rotary switch
- 4-pole 80-150 A
- Lockable to off-position with front plate, available separately
- Door mounting kit available

KU (N) rotary switch
- 16-80 A
- Lockable to off-position with front plate, available separately
- Door mounting kit available

KUE toggle switch
- 16-80 A
- Lockable to off-position with front plate

SWITCHES

Type	EAN	Ampere rating 600 V	HP 240 V	HP 480 V	HP 600 V	Weight (lb/kg)	Switch Type	Number of Poles
LSF 316UL	6419410268841	16 A	5 HP	7.5 HP	10 HP	0.2 / 0.09	Rotary Disconnect Switch	3
LSF 325UL	6419410268858	30 A	7.5 HP	10 HP	15 HP	0.2 / 0.09	Rotary Disconnect Switch	3
LSF 340UL	6419410268865	40 A	10 HP	15 HP	20 HP	0.2 / 0.09	Rotary Disconnect Switch	3
LSF 416UL	6419410268872	16 A	5 HP	7.5 HP	10 HP	1.98 / 0.1	Rotary Disconnect Switch	4
LSF 425UL	6419410268889	30 A	7.5 HP	10 HP	15 HP	1.98 / 0.1	Rotary Disconnect Switch	4
LSF 440UL	6419410268896	40 A	10 HP	15 HP	20 HP	1.98 / 0.1	Rotary Disconnect Switch	4
RT 316 L42LKX50	6419410257753	16 A	5 HP	7.5 HP	10 HP	0.37 / 0.17	Rotary Disconnect Switch, Door / Side Panel Mounting	3
RT 325 L42LKX50	6419410257760	30 A	7.5 HP	10 HP	15 HP	0.37 / 0.17	Rotary Disconnect Switch, Door / Side Panel Mounting	3
RT 340 L42LKX50	6419410257777	40 A	10 HP	15 HP	20 HP	0.37 / 0.17	Rotary Disconnect Switch, Door / Side Panel Mounting	3
RT 316 L42LKX50YR	6419410257784	16 A	5 HP	7.5 HP	10 HP	0.37 / 0.17	Rotary Disconnect Switch, Door / Side Panel Mounting	4
RT 325 L42LKX50YR	6419410257791	30 A	7.5 HP	10 HP	15 HP	0.37 / 0.17	Rotary Disconnect Switch, Door / Side Panel Mounting	4
RT 340 L42LKX50YR	6419410257807	40 A	10 HP	15 HP	20 HP	0.37 / 0.17	Rotary Disconnect Switch, Door / Side Panel Mounting	4
KU 316N	6419410214305	16 A	3HP	10HP	7.5HP	0.418 / 0.19	Rotary disconnect switch	3
KU 325N	6419410214404	25 A	5HP	15HP	10HP	0.418 / 0.19	Rotary disconnect switch	3
KU 340N	6419410214503	40 A	7.5HP	20HP	15HP	0.418 / 0.19	Rotary disconnect switch	3
KU 363N	6419410214602	60 A	10HP	25HP	25HP	0.418 / 0.19	Rotary disconnect switch	3
KU 380N	6419410214701	80 A	15HP	30HP	30HP	0.418 / 0.19	Rotary disconnect switch	3
KU 416N	6419410215005	16 A	3HP	10HP	7.5HP	0.485 / 0.22	Rotary disconnect switch	4
KU 425N	6419410215203	25 A	5HP	15HP	10HP	0.485 / 0.22	Rotary disconnect switch	4
KU 440N	6419410215500	40 A	7.5HP	20HP	15HP	0.485 / 0.22	Rotary disconnect switch	4
KU 463N	6419410215906	60 A	10HP	25HP	25HP	0.485 / 0.22	Rotary disconnect switch	4
KU 480N	6419410216002	80 A	15HP	30HP	30HP	0.485 / 0.22	Rotary disconnect switch	4
VKA 480N	6419410218440	80 A	15HP	30HP	40HP	1.455 / 0.66	Rotary disconnect switch	4
VKA 4100N	6419410218556	100 A	20HP	40HP	50HP	1.455 / 0.66	Rotary disconnect switch	4
VKA 4125N	6419410218600	125 A	25HP	50HP	60HP	1.455 / 0.66	Rotary disconnect switch	4
VKA 4160N	6419410219102	150 A	30HP	60HP	75HP	1.455 / 0.66	Rotary disconnect switch	4
KUE 316	6419410200308	16 A	3HP	10HP	7.5HP	0.374 / 0.17	Toggle disconnect switch	3
KUE 316 KKUE	6419410200315	16 A	3HP	10HP	7.5HP	0.418 / 0.19	Toggle disconnect switch + rectangle front plate	3
KUE 316 RKUE	6419410200377	16 A	3HP	10HP	7.5HP	0.418 / 0.19	Toggle disconnect switch + round front plate	3
KUE 325	6419410200407	25 A	5HP	15HP	10HP	0.374 / 0.17	Toggle disconnect switch	3
KUE 325 KKUE	6419410200414	25 A	5HP	15HP	10HP	0.418 / 0.19	Toggle disconnect switch + rectangle front plate	3
KUE 325 RKUE	6419410200476	25 A	5HP	15HP	10HP	0.418 / 0.19	Toggle disconnect switch + round front plate	3
KUE 340	6419410200506	40 A	7.5HP	20HP	15HP	0.374 / 0.17	Toggle disconnect switch	3
KUE 340 KKUE	6419410200513	40 A	7.5HP	20HP	15HP	0.418 / 0.19	Toggle disconnect switch + rectangle front plate	3
KUE 340 RKUE	6419410200544	40 A	7.5HP	20HP	15HP	0.418 / 0.19	Toggle disconnect switch + round front plate	3
KUE 363	6419410200605	60 A	10HP	25HP	25HP	0.396 / 0.18	Toggle disconnect switch	3
KUE 363 KKUE	6419410200612	60 A	10HP	25HP	25HP	0.441 / 0.2	Toggle disconnect switch + rectangle front plate	3
KUE 363 RKUE	6419410200674	60 A	10HP	25HP	25HP	0.441 / 0.2	Toggle disconnect switch + round front plate	3
KUE 380	6419410200704	80 A	15HP	30HP	30HP	0.396 / 0.18	Toggle disconnect switch	3
KUE 380 KKUE	6419410200711	80 A	15HP	30HP	30HP	0.441 / 0.2	Toggle disconnect switch + rectangle front plate	3
KUE 380 RKUE	6419410200742	80 A	15HP	30HP	30HP	0.441 / 0.2	Toggle disconnect switch + round front plate	3

ACCESSORIES AVAILABLE: www.katko.com/products/ul-listed/ul-listed-accessories/

CHANGE-OVER SWITCHES 16-800 A ROTARY SWITCHES LOADSAFE KU SERIES

GENERAL CHARACTERISTICS

- Consists of two 3- or 4-pole switches and a change-over kit
- For KU 16 - 160 A it is possible to assemble change-over switches retrospectively from two 3- or 4-pole switches and a kit
- KU 160 A (Performance) and KU 200 - 800 A are only available as a factory assembled change-over switch
- Switch technology by means of silver contacts ensures safe and durable operation
- All versions are operable with direct handle or external handle and shaft. For KU 16 - 160 purchase shaft and external handle separately when needed. For KU 160 A (Performance) and KU 200 - 800 A external handle and shaft are included.
- KU 16 - 80 A & 125 A (N) use a snap-on auxiliary contact, available in 1NO/1NC or 2NO/2NC
- KU 100 - 800 A use a side-mountable auxiliary contact, available in 1NO/1NC or 2NO/2NC. It is possible to mount two auxiliary contacts on each side making the maximum amount of contacts as 8NO/8NC

ASSEMBLY EXAMPLE KU 3160 CO CHANGE-OVER SWITCH

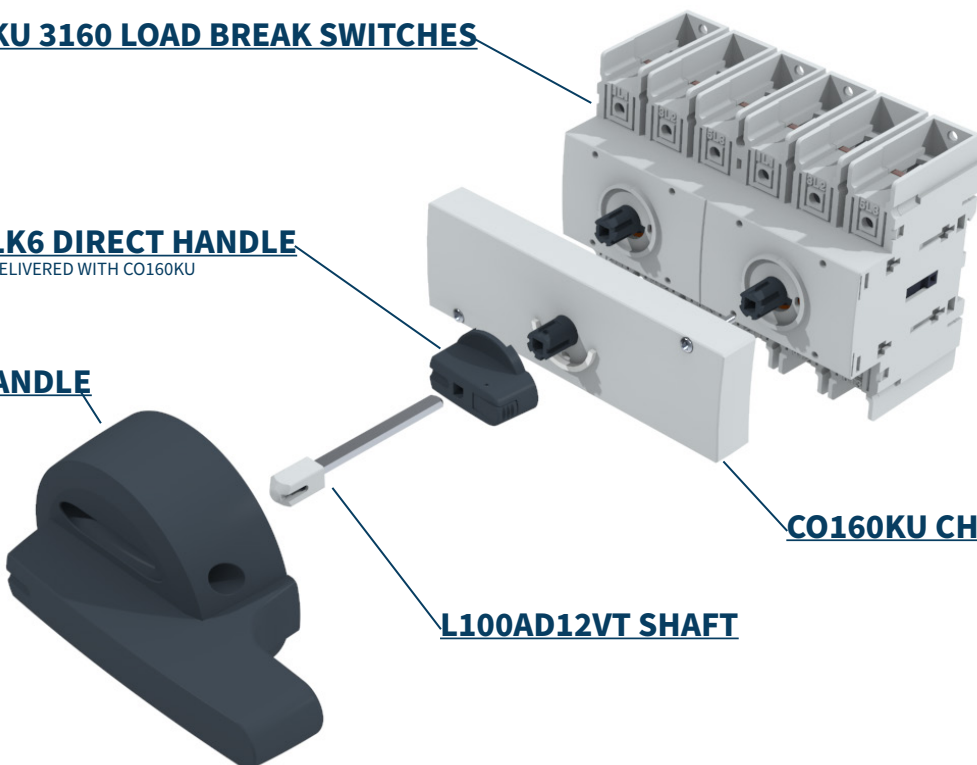
2 x KU 3160 LOAD BREAK SWITCHES

LK6 DIRECT HANDLE DELIVERED WITH CO160KU

LK12CO102 HANDLE

CO160KU CHANGE-OVER KIT

L100AD12VT SHAFT



CHANGE-OVER SWITCHES 16-40 A ROTARY SWITCHES LOADSAFE KU SERIES



KU 340CT (1-2)
Consists of:
2 x KU340
1 x CT40KU3P



KU 440CO (1-0-2)
Consists of:
2 x KU440
1 x CO40KU4P

KU 16-40 A SPECIFIC CHARACTERISTICS

- Compact design
- Consists of two 3- or 4-pole switches and a change-over kit
- Available in open (CO) or closed transition (CT)
- Switch technology by means of silver contacts ensures safe and durable operation
- Available with fixed (NO) auxiliary contact or auxiliary contacts can be installed on either or both sides

CHANGE-OVER CONFIGURATIONS

Consists of:

2 x 3- or 4-pole KU switches
1 x Change over kit:
CO40KU3P or CO40KU4P
CT40KU3P or CT40KU4P

Optional:

1 x External handle for change-over
1 x Shaft

SWITCHES

Type	EAN	E-number	AC-23A 400/415 V (A)	AC-23A 400/415 V (kW)	AC-23A 690 V (A)	AC-23A 690 V (kW)	Switch Type	Number of Poles
KU 316CO	6419410337783	3663112	16	7,5	16	11	Change-over switch (CO, open transition) 1-0-2	3
KU 316CT	6419410337868	3663113	16	7,5	16	11	Change-over switch (CT, closed transition) 1-2	3
KU 325CO	6419410337790	3663114	25	11	25	22	Change-over switch (CO, open transition) 1-0-2	3
KU 325CT	6419410337875	3663115	25	11	25	22	Change-over switch (CT, closed transition) 1-2	3
KU 340CO	6419410337806	3663116	40	22	25	22	Change-over switch (CO, open transition) 1-0-2	3
KU 340CT	6419410337882	3663117	40	22	25	22	Change-over switch (CT, closed transition) 1-2	3
KU416CO	6419410337813	3663118	16	7,5	16	11	Change-over switch (CO, open transition) 1-0-2	4
KU416CT	6419410337899	3663119	16	7,5	16	11	Change-over switch (CT, closed transition) 1-2	4
KU425CO	6419410337820	3663120	25	11	25	22	Change-over switch (CO, open transition) 1-0-2	4
KU425CT	6419410337912	3663121	25	11	25	22	Change-over switch (CT, closed transition) 1-2	4
KU440CO	6419410337837	3663122	40	22	25	22	Change-over switch (CO, open transition) 1-0-2	4
KU440CT	6419410337936	3663123	40	22	25	22	Change-over switch (CT, closed transition) 1-2	4

RELATED ACCESSORIES



Type	Accessory	Description	For	EAN	E-number
CO40KU3P	Change-over kit	Open transition, 1-0-2	3-pole	6419410337844	3663108
CO40KU4P	Change-over kit	Open transition, 1-0-2	4-pole	6419410337851	3663109
CT40KU3P	Change-over kit	Closed transition, 1-2	3-pole	6419410337943	3663110
CT40KU4P	Change-over kit	Closed transition, 1-2	4-pole	6419410337950	3663111
L100AD11	Shaft	Length 100 mm, aluminium	For all configurations	6419410253106	3662291
L200AD11	Shaft	Length 200 mm, aluminium	For all configurations	6419410253113	3662292
L300AD11	Shaft	Length 300 mm, aluminium	For all configurations	6419410253120	3662293
1NO40KU	Auxiliary contact	1NO, normal open	For all configurations	6419410263914	3610339
1NC40KU	Auxiliary contact	1NC, normal closed	For all configurations	6419410263921	3610340
1NO40QC	Auxiliary contact	Quick connect (1NO, normal open)	For all configurations	6419410263891	3610337
1NC40QC	Auxiliary contact	Quick connect (1NC, normal closed)	For all configurations	6419410263907	3610338
LKX50	Handle	Black	For all configurations	6419410257852	3609688
LKX50YR	Handle	Yellow/Red	For all configurations	6419410257869	3609697
LK10	Handle	Black	For all configurations	6419410222539	3600934
LK10YR	Handle	Yellow/Red	For all configurations	6419410222553	3600935



DISCOVER MORE

CHANGE-OVER SWITCHES 16-125 A ROTARY SWITCHES LOADSAFE KU SERIES



KU 440 VV
Consists of:
2 x KU 440N
1 x KUVV

KU 16 - 80 A & 125 A (N) SPECIFIC CHARACTERISTICS

- Compact design
- Consists of two 3- or 4-pole switches and a change-over kit
- Switch technology by means of silver contacts ensures safe and durable operation

CHANGE-OVER CONFIGURATIONS

Consists of:

2 x 3- or 4-pole KU switches
1 x Change over kit:
KUVV or KUVVYR

Optional:

1 x External handle for change-over
1 x Shaft

SWITCHES

Type	EAN	E-number	AC-23A 400/415 V (A)	AC-23A 400/415 V (kW)	AC-23A 690 V (A)	AC-23A 690 V (kW)	Switch Type	Number of Poles
KU 316VV	6419410205914	3609256	16	7,5	16	11	Change-over switch	3
KU 325VV	6419410226704	3609257	25	11	25	22	Change-over switch	3
KU 340VV	6419410226711	3609258	32	15	32	30	Change-over switch	3
KU 363VV	6419410226773	3609259	40	22	40	37	Change-over switch	3
KU 380VV	6419410226728	3609260	63	30	40	37	Change-over switch	3
KU 3125VV	6419410226759	3609261	63	30	40	37	Change-over switch	3
KU 416VV	6419410205921	3609262	16	7,5	16	11	Change-over switch	4
KU 425VV	6419410226797	3609263	25	11	25	22	Change-over switch	4
KU 440VV	6419410226735	3609264	32	15	32	30	Change-over switch	4
KU 463VV	6419410226780	3620275	40	22	40	37	Change-over switch	4
KU 480VV	6419410226742	3602956	63	30	40	37	Change-over switch	4
KU 4125VV	6419410226766	3602957	63	30	40	37	Change-over switch	4

RELATED ACCESSORIES

Type	Accessory	Description	For	EAN	E-number
L100AD11	Shaft	Length 100 mm, aluminium	3, 4, 6 or 8-pole	6419410253106	3662291
L200AD11	Shaft	Length 200 mm, aluminium	3, 4, 6 or 8-pole	6419410253113	3662292
L300AD11	Shaft	Length 300 mm, aluminium	3, 4, 6 or 8-pole	6419410253120	3662293
L100AD11VT	Shaft	Length 100 mm, steel, slanted	3, 4, 6 or 8-pole	6419410253168	3600231
L200AD11VT	Shaft	Length 200 mm, steel, slanted	3, 4, 6 or 8-pole	6419410253175	3600271
L300AD11VT	Shaft	Length 300 mm, steel, slanted	3, 4, 6 or 8-pole	6419410253182	3600272
KUVV	Change-over kit	Positions 1, 0, 2, black handle	3 or 4-pole	6419410221624	3600216
KUVVYR	Change-over kit	Positions 1, 0, 2, red handle	3 or 4-pole	6419410221631	3600217
LK11CO102	Handle	Black	Change-over	6419410222621	3600957
LK11CO102YR	Handle	Yellow/red	Change-over	6419410222638	3609265



DISCOVER MORE



CHANGE-OVER SWITCHES 100-160 A ROTARY SWITCHES LOADSAFE KU SERIES



KU 3160 CO
Consists of:
2 x KU 4-pole
1 x CO160KU

KU 100 - 160 A SPECIFIC CHARACTERISTICS

- Consists of two 3- or 4-pole switches and a change-over kit
- Switch technology by means of silver contacts ensures safe and durable operation
- Modular structure
- Auxiliary contacts can be installed on either or both sides

CHANGE-OVER CONFIGURATIONS

Consists of:

2 x 3- or 4-pole KU switches
1 x CO160KU change-over kit

Optional:

1 x External LK12 handle for change-over
1 x Shaft (AD12VT)

SWITCHES

Type	EAN	E-number	AC-23A 400/415 V (A)	AC-23A 400/415 V (kW)	AC-23A 690 V (A)	AC-23A 690 V (kW)	Weight (kg)	Switch Type	Number of Poles
KU 3100CO	6419410203583	3600800	100	55	63	55	0,97	Change-over Switch	3
KU 3125CO	6419410203590	3600805	125	55	80	75	0,97	Change-over Switch	3
KU 3160CO	6419410203606	3600810	160	90	100	90	0,97	Change-over Switch	3
KU 4100CO	6419410203613	3600811	100	55	63	55	1,18	Change-over Switch	4
KU 4125CO	6419410203620	3600812	125	55	80	75	1,18	Change-over Switch	4
KU 4160CO	6419410203637	3600813	160	90	100	90	1,18	Change-over Switch	4

RELATED ACCESSORIES

Type	Accessory	Description	For	EAN	E-number
CO160KU	Change-over Kit	Change-over kit	For 2 x 3- or 4-pole switches	6419410203651	3600815
1V160KU	Auxiliary contact	1NO/1NC	For all configurations	6419410300022	3600819
2V160KU	Auxiliary contact	2NO/2NC	For all configurations	6419410300114	3600825
LS160	Cover	Terminal cover for 3P	For all configurations. Covers 3 poles.	6419410203699	3600817
LSN160	Cover	Terminal cover for 4th pole	4- & 8-pole and 4-pole change-over	6419410203705	3600818
L100AD12VT	Shaft	Length 100 mm, steel, slanted	With LK12 handle	6419410253076	3600938
L200AD12VT	Shaft	Length 200 mm, steel, slanted	With LK12 handle	6419410253083	3600922
L300AD12VT	Shaft	Length 300 mm, steel, slanted	With LK12 handle	6419410253090	3600917
LK12CO102	Handle	Black	Change-over	6419410222881	3600916
LK12CO102YR	Handle	Yellow/red	Change-over	6419410222744	3609266



DISCOVER MORE

CHANGE-OVER SWITCHES 160-250 A ROTARY SWITCHES LOADSAFE KU SERIES



KU 4250CO SV



KU 200 - 250 A & 160 A PERFORMANCE (P) SPECIFIC CHARACTERISTICS

- Consists of two 3- or 4-pole switches
- Modular structure
- Made of 100% recyclable plastic
- Auxiliary contacts can be installed on either or both sides
- 160 (P) model is an option for Katko's regular 160 A switch and suitable for industrial applications

CHANGE-OVER CONFIGURATIONS

Consists of:

- 2 x 3- or 4-pole KU switches
- Direct handle or external handle and shaft

SWITCHES

Type	EAN	E-number	AC-23A 690 V (A)	AC-23A 690 V (kW)	Weight (kg)	Operation	Switch Type	Number of Poles
With external handle (LKX 100 1-0-2) and shaft (L=200 AD12/T6)								
KU 3200WCO L200AD12T6LKX100	6419410205273	3602992	200	160	2,1	External handle	Change-over Switch	3
KU 3250WCO L200AD12T6LKX100	6419410205280	3602993	250	250	2,1	External handle	Change-over Switch	3
KU 4200WCO L200AD12T6LKX100	6419410205297	3602994	200	160	2,6	External handle	Change-over Switch	4
KU 4250WCO L200AD12T6LKX100	6419410205303	3602995	250	250	2,6	External handle	Change-over Switch	4
KU 3160PWCO L200AD12T6LKX100	6419410205501	3609227	160	132	2,1	External handle	Change-over Switch	3
KU 4160PWCO L200AD12T6LKX100	6419410205518	3609228	160	132	2,6	External handle	Change-over Switch	4
With direct handle								
KU 3200WCO SV	6419410205358	3609212	200	160	2,1	Direct handle	Change-over Switch	3
KU 3250WCO SV	6419410205365	3609213	250	250	2,1	Direct handle	Change-over Switch	3
KU 4200WCO SV	6419410205372	3609214	200	160	2,6	Direct handle	Change-over Switch	4
KU 4250WCO SV	6419410205389	3609215	250	250	2,6	Direct handle	Change-over Switch	4
KU 3160PWCO SV	6419410205563	3609233	160	132	2,1	Direct handle	Change-over Switch	3
KU 4160PWCO SV	6419410205570	3609234	160	132	2,6	Direct handle	Change-over Switch	4

RELATED ACCESSORIES

Type	Accessory	Description	For	EAN	E-number
LKX100CO102	Handle	Black handle, 1-0-2 positions	Change-over	6419410484708	3609267
LKX100CO102YR	Handle	Yellow/red handle, 1-0-2 positions	Change-over	6419410484722	3609268
LS250H	Terminal cover	1-pole terminal cover. High model.	Use with vertical (VB & VM) cable connectors	6419410205419	3609218
LS250F	Terminal cover	1-pole terminal cover. Flush model.	Use with regular cable connectors	6419410205402	3609217
VS250	Phase Barrier	Phase barrier	For all configurations	6419410205396	3609216
L200AD12T6	Shaft	Length 200 mm, 6 mm steel shaft	For all configurations	6419410271063	3609237
1V160KU	Auxiliary contact	1NO/1NC	For all configurations	6419410300022	3600819
2V160KU	Auxiliary contact	2NO/2NC	For all configurations	6419410300114	3600825



DISCOVER MORE



CHANGE-OVER SWITCHES 315 - 400 A ROTARY SWITCHES LOADSAFE KU SERIES



KU 3400CO SV

KU 315 - 400 A SPECIFIC CHARACTERISTICS

- Consists of two 3- or 4-pole switches
- Modular structure
- Made of 100% recyclable plastic
- Auxiliary contacts can be installed on either or both sides

CHANGE-OVER CONFIGURATIONS

Consists of:
2 x 3- or 4-pole KU switches
Direct handle or external handle and shaft

SWITCHES

Type	EAN	E-number	AC-23A 690 V (A)	AC-23A 690 V (kW)	Weight (kg)	Operation	Switch Type	Number of Poles
With external handle (LKV150CO102) and shaft (LVK228)								
KU 3315CO LVK228LKV150	6419410300244	3602931	315	315	5,364	External handle	Change-over Switch	3
KU 3400CO LVK228LKV150	6419410300251	3602932	400	355	5,364	External handle	Change-over Switch	3
KU 4315CO LVK228LKV150	6419410300268	3602933	315	315	6,422	External handle	Change-over Switch	4
KU 4400CO LVK228LKV150	6419410300275	3602934	400	355	6,422	External handle	Change-over Switch	4
With direct handle								
KU 3315CO SV	6419410300336	3602939	315	315	5,364	Direct handle	Change-over Switch	3
KU 3400CO SV	6419410300343	3602940	400	355	5,364	Direct handle	Change-over Switch	3
KU 4315CO SV	6419410300350	3602941	315	315	6,422	Direct handle	Change-over Switch	4
KU 4400CO SV	6419410300367	3602942	400	355	6,422	Direct handle	Change-over Switch	4

RELATED ACCESSORIES

Type	Accessory	Description	For	EAN	E-number
LS400H	Terminal cover	1-pole terminal cover. High model.	Use with vertical (VB & VM) cable connectors	6419410300398	3602945
LS400F	Terminal cover	1-pole terminal cover. Flush model.	Use with regular cable connectors	6419410300381	3602944
VS400	Phase Barrier	Phase barrier	For all configurations	6419410300374	3602943
1V160KU	Auxiliary contact	1NO/1NC	For all configurations	6419410300022	3600819
2V160KU	Auxiliary contact	2NO/2NC	For all configurations	6419410300114	3600825
LVK228	Shaft	Length 228 mm, steel	Delivered with external handle	6419410221440	3600348
LKV150CO102	Handle	Black handle, 1-0-2 positions	Change-over	6419410484715	3609269
LKV150CO102YR	Handle	Yellow/red handle, 1-0-2 positions	Change-over	6419410484739	3609270



DISCOVER MORE

CHANGE-OVER SWITCHES 630-800 A ROTARY SWITCHES LOADSAFE KU SERIES



KU 3800CO



KU 630 - 800 A SPECIFIC CHARACTERISTICS

- Consists of two 3- or 4-pole switches
- Modular structure
- Made of 100% recyclable plastic
- Auxiliary contacts can be installed on either or both sides

CHANGE-OVER CONFIGURATIONS

Consists of:

- 2 x 3- or 4-pole KU switches
- Direct handle or external handle and shaft

SWITCHES

Type	EAN	E-number	AC-23A 690 V (A)	AC-23A 690 V (kW)	Weight (kg)	Operation	Switch Type	Number of Poles
With external handle (LKX 150 1-0-2) and shaft (LVK=228)								
KU 3630CO LVK228LKX150	6419410483701	3602846	630	630	8,985	External handle	Change-over Switch	3
KU 3800CO LVK228LKX150	6419410483718	3602847	800	800	8,985	External handle	Change-over Switch	3
KU 4630CO LVK228LKX150	6419410483725	3602848	630	630	11,185	External handle	Change-over Switch	4
KU 4800CO LVK228LKX150	6419410483732	3602849	800	800	11,185	External handle	Change-over Switch	4
With direct handle								
KU 3630CO SV	6419410484036	3602887	630	630	8,985	Direct handle	Change-over Switch	3
KU 3800CO SV	6419410484043	3602888	800	800	8,985	Direct handle	Change-over Switch	3
KU 4630CO SV	6419410484050	3602889	630	630	11,185	Direct handle	Change-over Switch	4
KU 4800CO SV	6419410484067	3602890	800	800	11,185	Direct handle	Change-over Switch	4

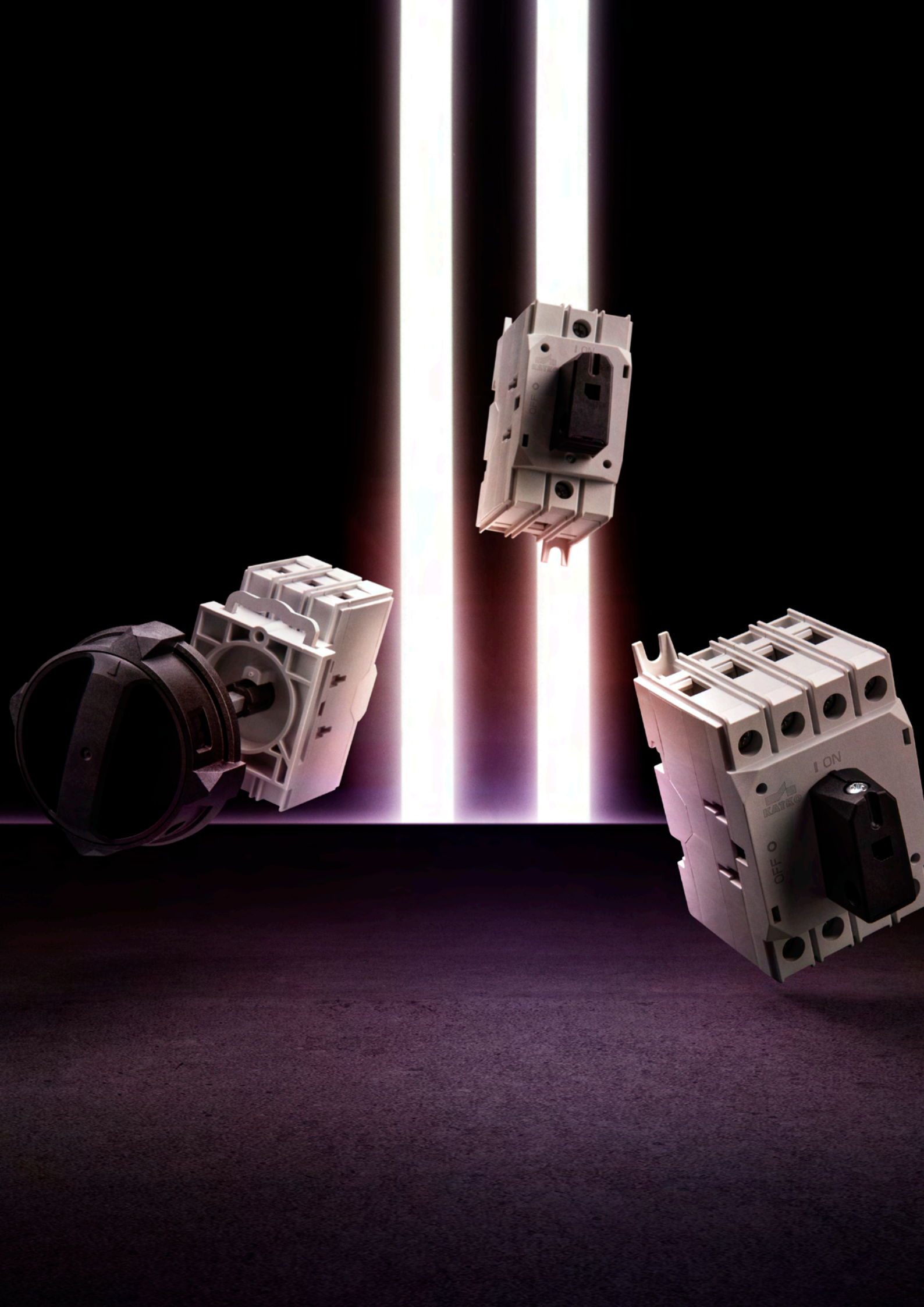


RELATED ACCESSORIES

Type	Accessory	Description	For	EAN	E-number
1V160KU	Auxiliary contact	1NO/1NC	For all configurations	6419410300022	3600819
2V160KU	Auxiliary contact	2NO/2NC	For all configurations	6419410300114	3600825
LVK228	Shaft	Length 228 mm, steel	Delivered with external handle	6419410221440	3600348
LKX150CO102	Handle	Black handle, 1-0-2 positions	Change-over	6419410484715	3609269
LKX150CO102YR	Handle	Yellow/red handle, 1-0-2 positions	Change-over	6419410484739	3609270
LS800F	Terminal cover	Terminal cover, low model	Use with regular cable connectors	6419410484487	3602913
LS800H	Terminal cover	Terminal cover, high model	Use with vertical (VB & VM) cable connectors	6419410484494	3602914
VS800	Phase barrier	Phase barrier	For all configurations	6419410483756	3602856

DISCOVER MORE

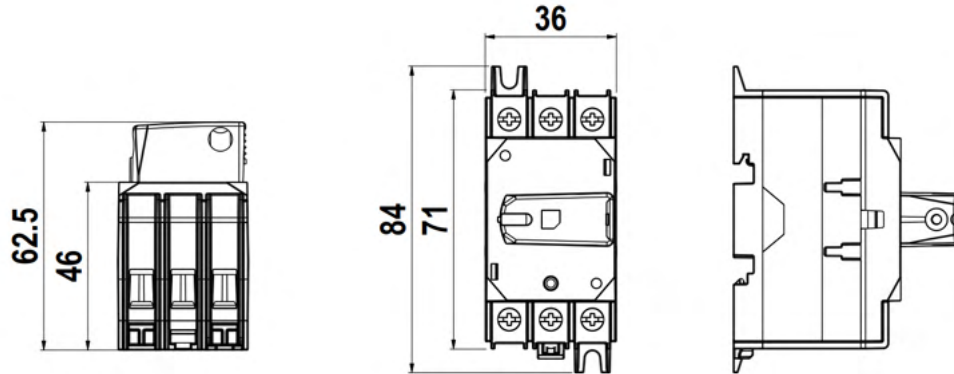




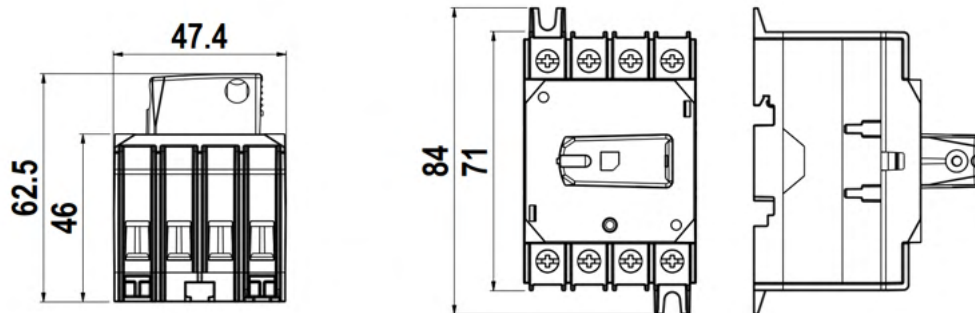
DIMENSIONAL DRAWINGS

KU 16-40 A & RT 16-40 A

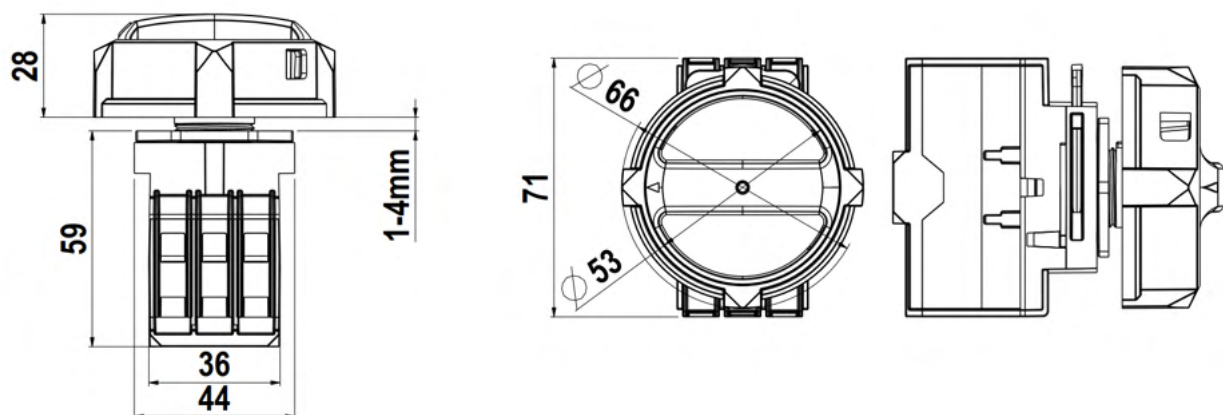
KU 3-POLE



KU 4-POLE



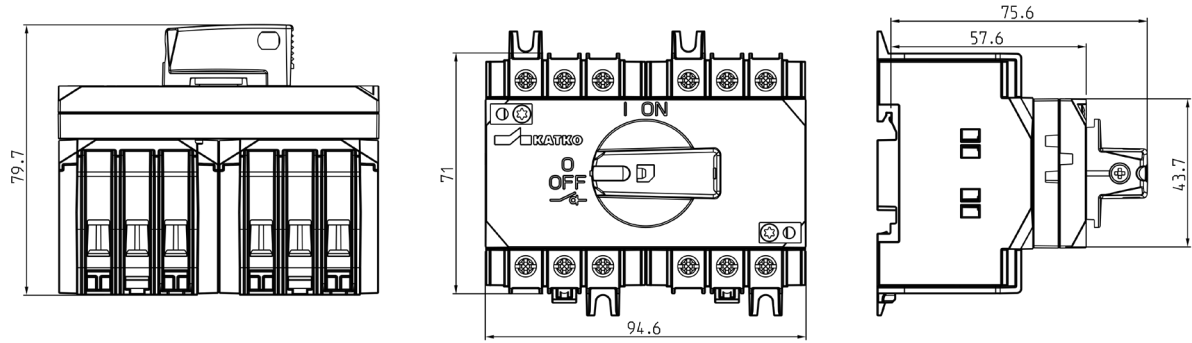
RT 3-POLE WITH LKX50 / DOOR MOUNTING



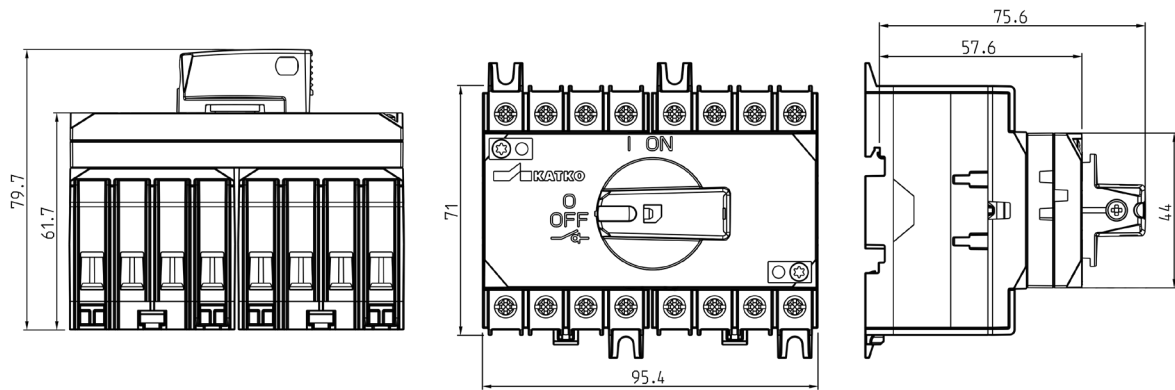
DIMENSIONAL DRAWINGS

KU 16-40 A & RT 16-40 A

KU 6-POLE



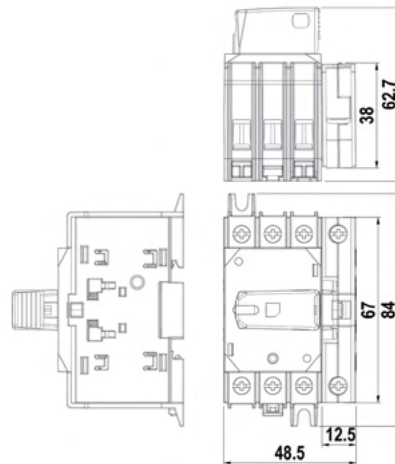
KU 8-POLE



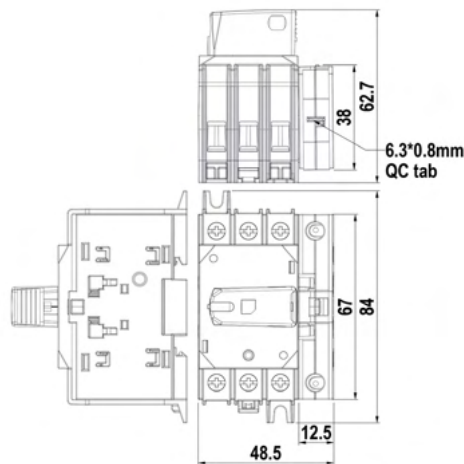
DIMENSIONAL DRAWINGS

KU 16-40 A & RT 16-40 A

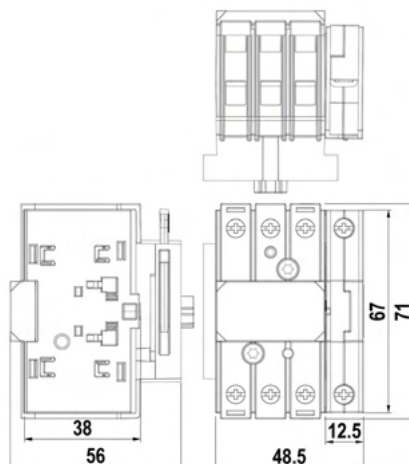
1NO40KU/1NC40KU and 3-pole KU 340



1NO40QC/1NC40QC and 3-pole KU 340



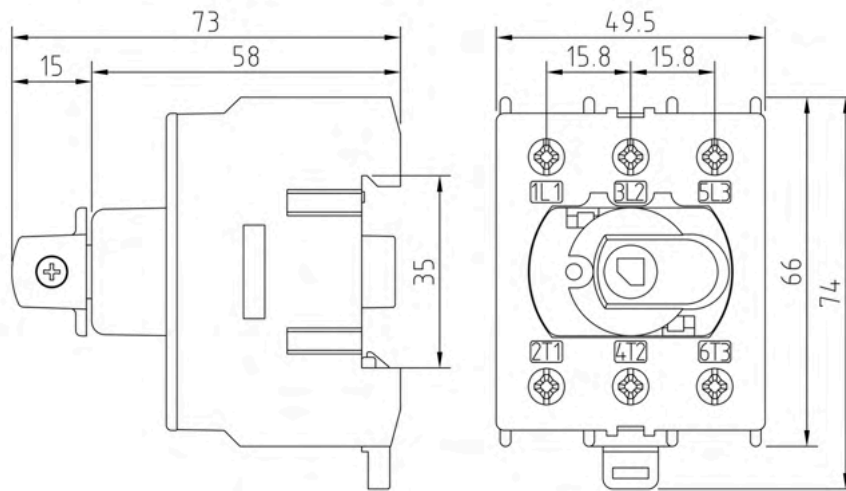
1NO40RT/1NC40RT and 3-pole RT 340



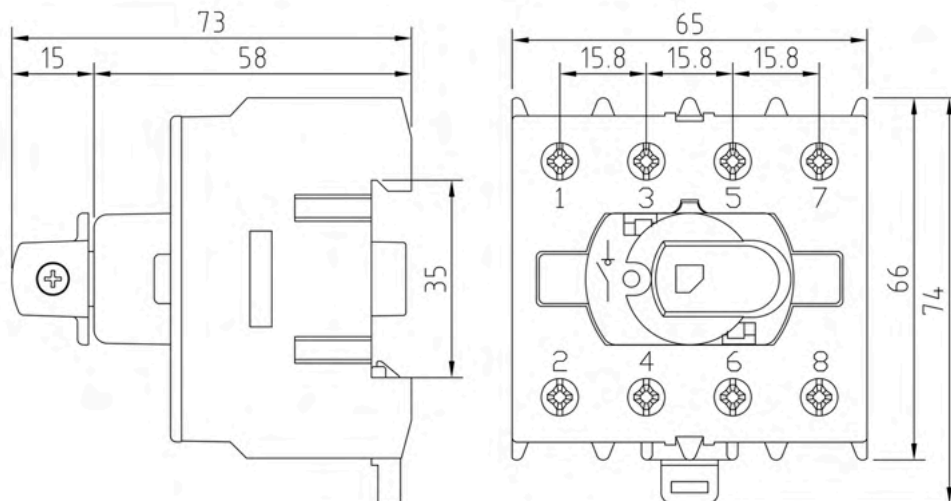
DIMENSIONAL DRAWINGS

KU 16-80 A & 125 A (N)

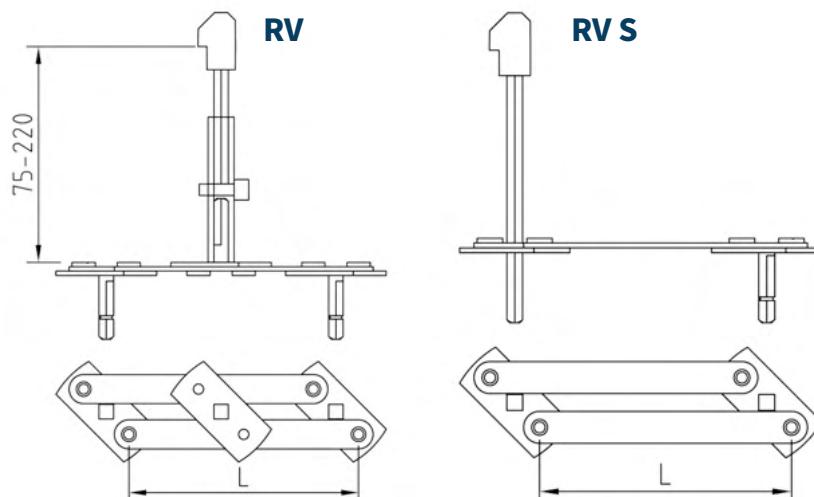
KU 3-POLE (N)



KU 4-POLE (N)



KU 6- & 8-POLE (N) PARALLEL KIT



KU 6-POLE
LENGTH, L (mm)

RV = 66

RV S = 66

KU 8-POLE
LENGTH, L (mm)

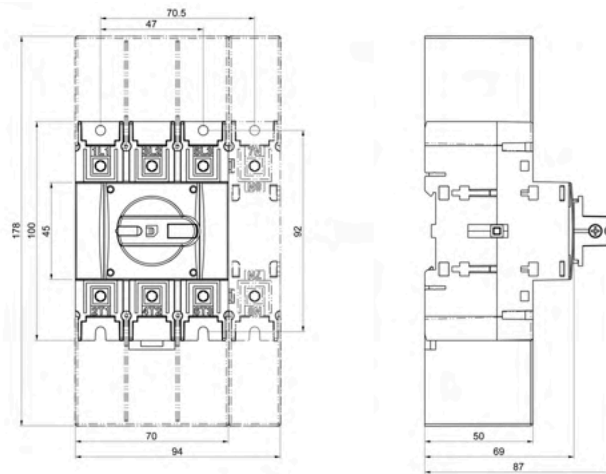
RV = 80

RV S = 80

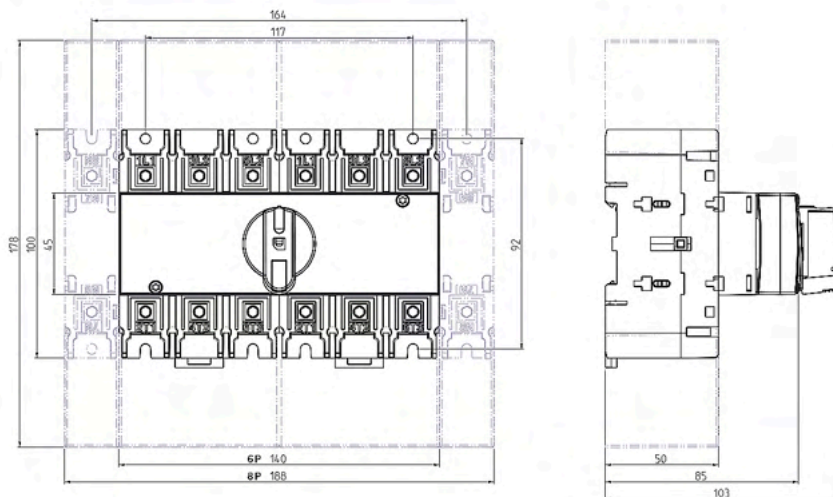
DIMENSIONAL DRAWINGS

KU 100-160 A

KU 3- & 4-POLE, WITH TERMINAL COVERS



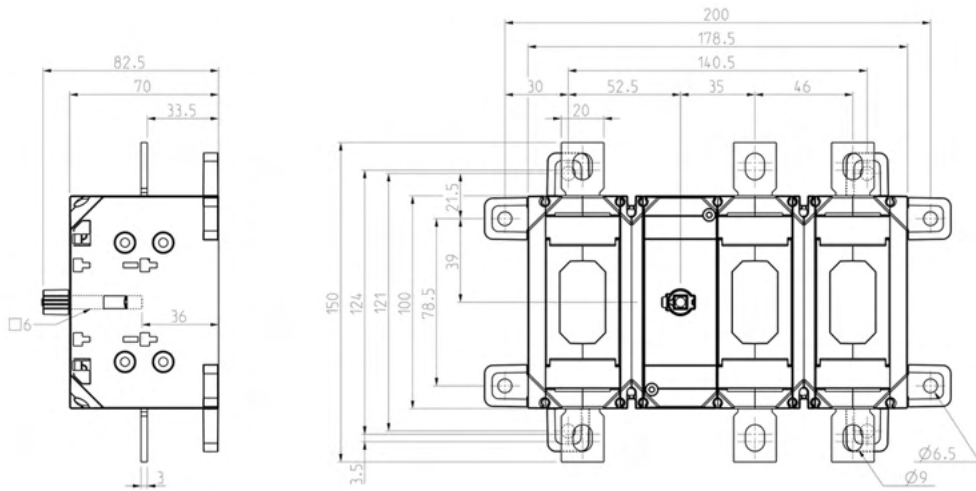
KU 6- & 8-POLE, WITH TERMINAL COVERS



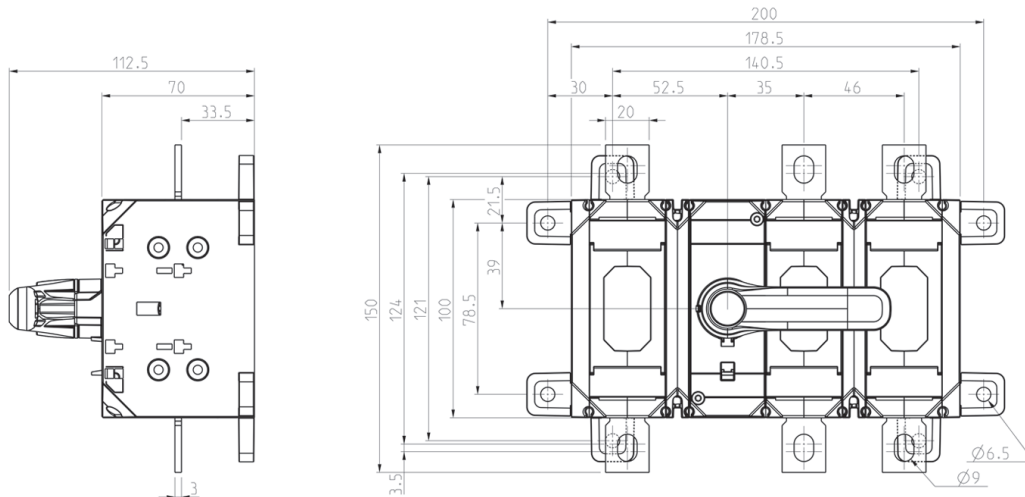
DIMENSIONAL DRAWINGS

KU 200-250A & 160A PERFORMANCE (P)

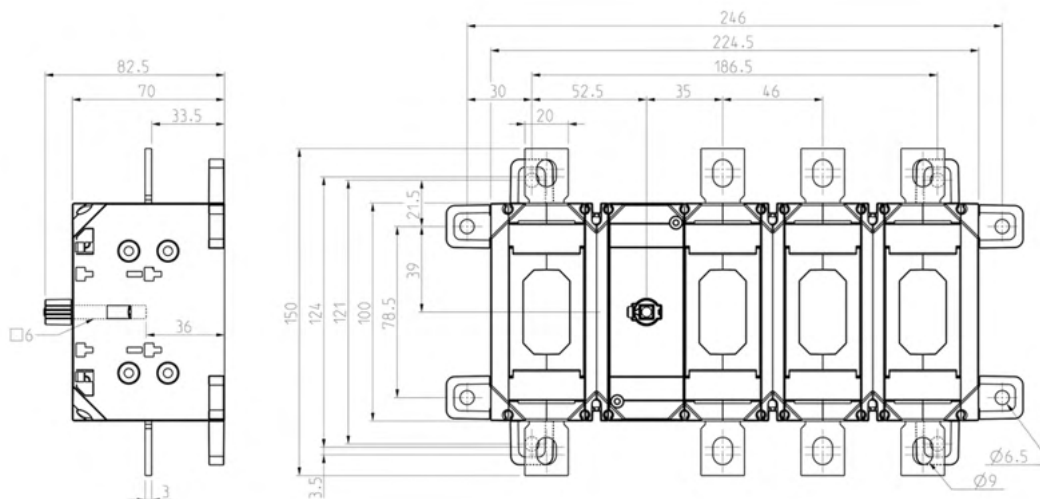
KU 3-POLE (W)



KU 3-POLE, DIRECT HANDLE (W)



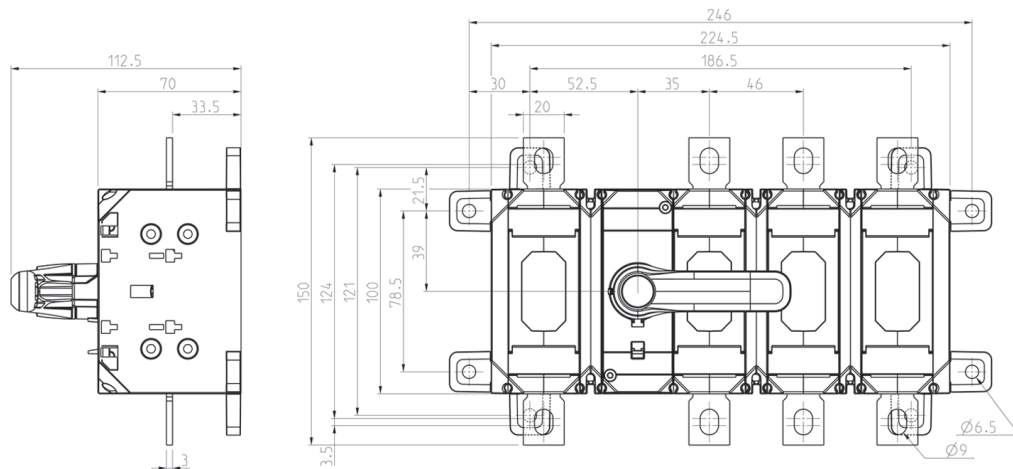
KU 4-POLE (W)



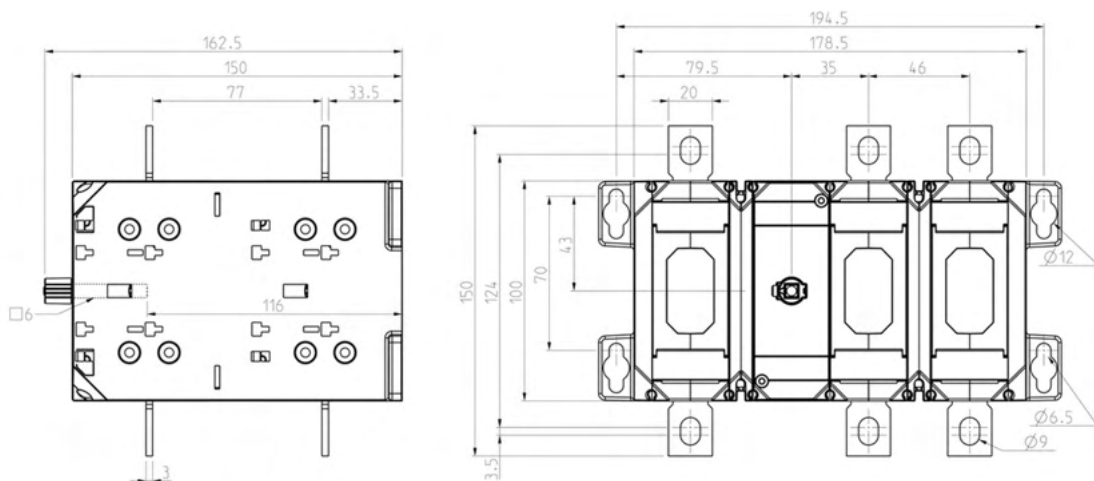
DIMENSIONAL DRAWINGS

KU 200-250A & 160A PERFORMANCE (P)

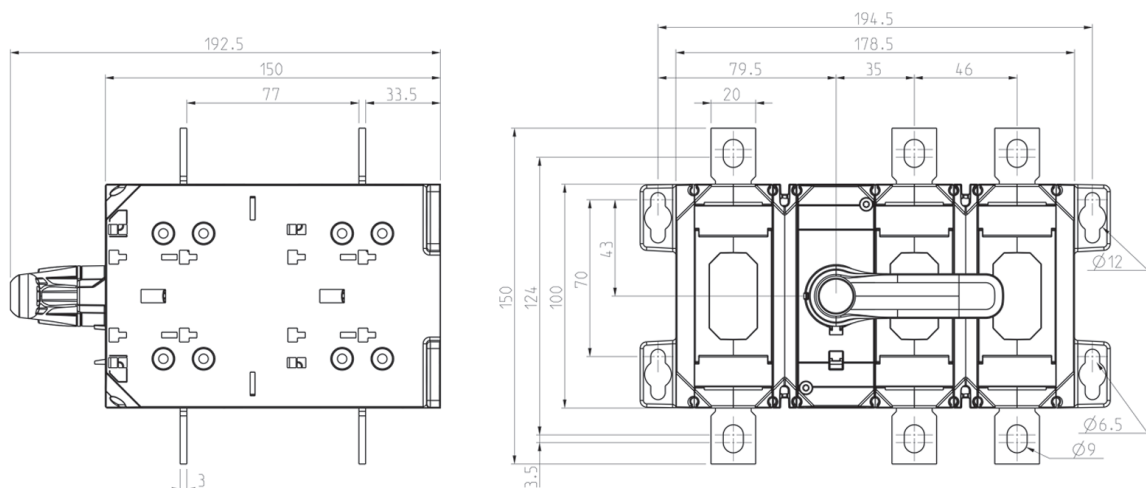
KU 4-POLE, DIRECT HANDLE (W)



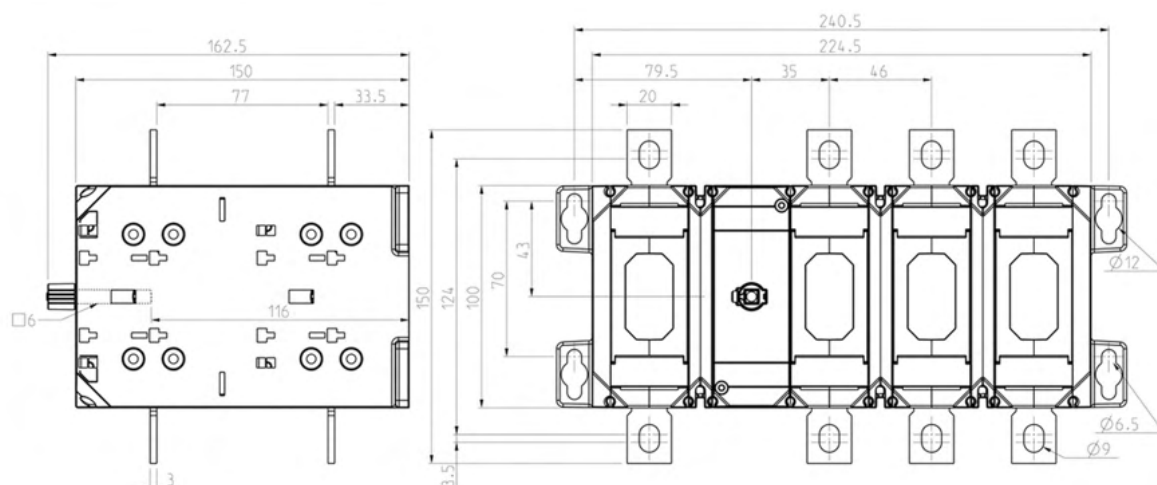
KU 6-POLE (W)



KU 6-POLE, DIRECT HANDLE (W)



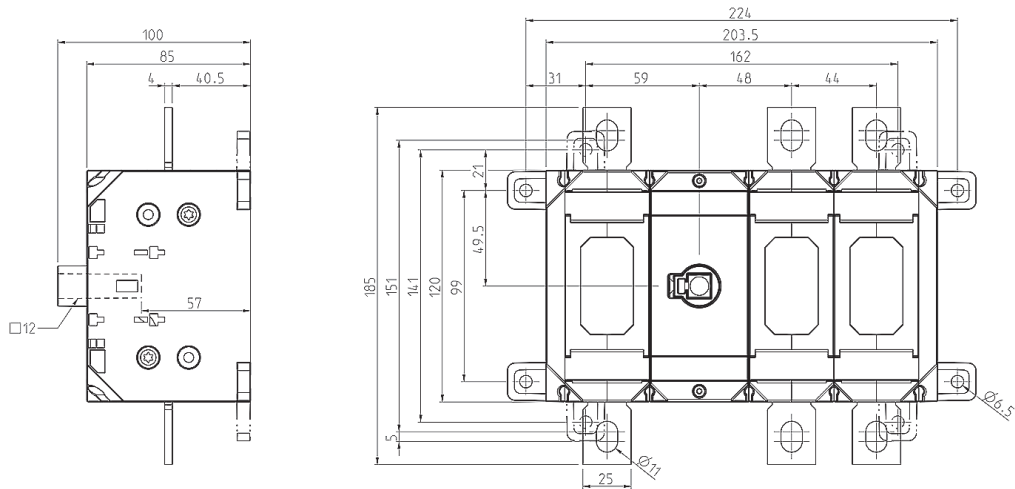
KU 8-POLE (W)



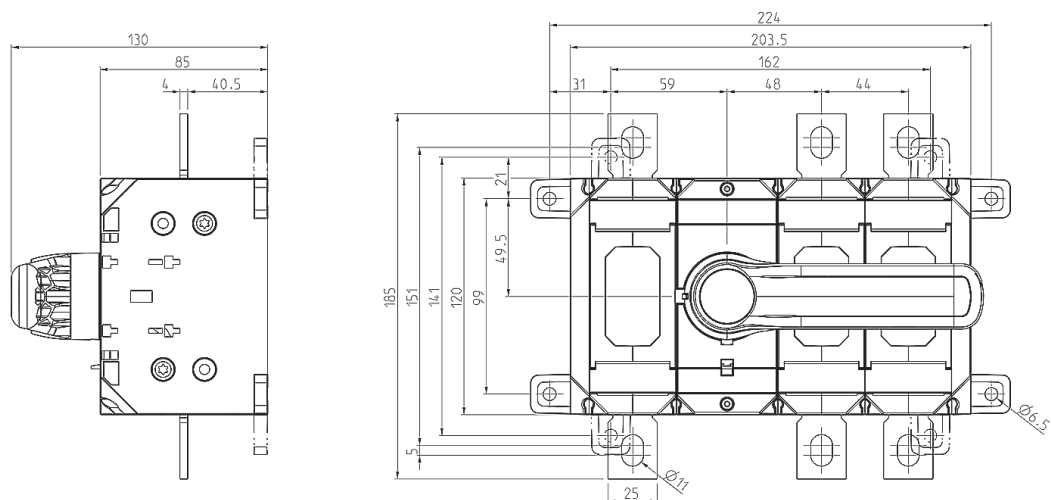
DIMENSIONAL DRAWINGS

KU 315-400A

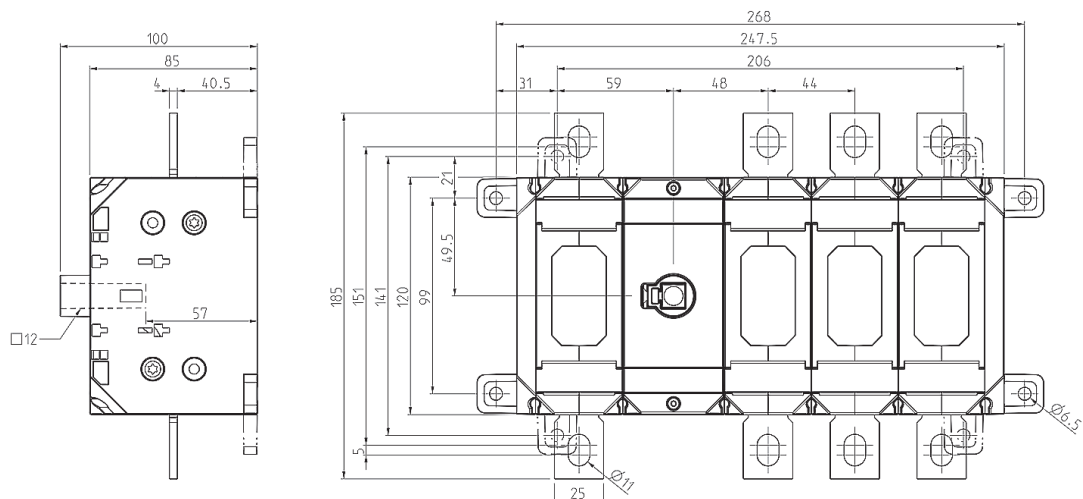
KU 3-POLE



KU 3-POLE, DIRECT HANDLE



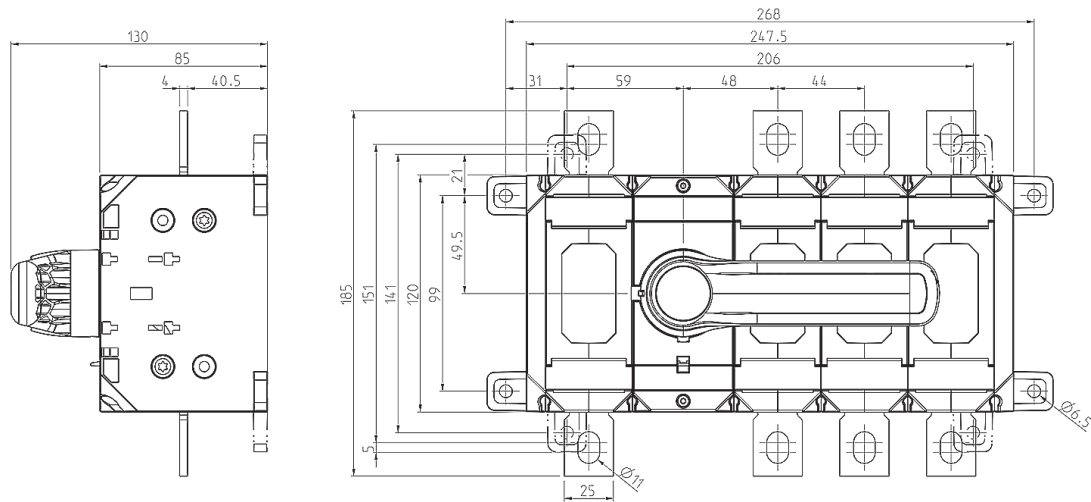
KU 4-POLE



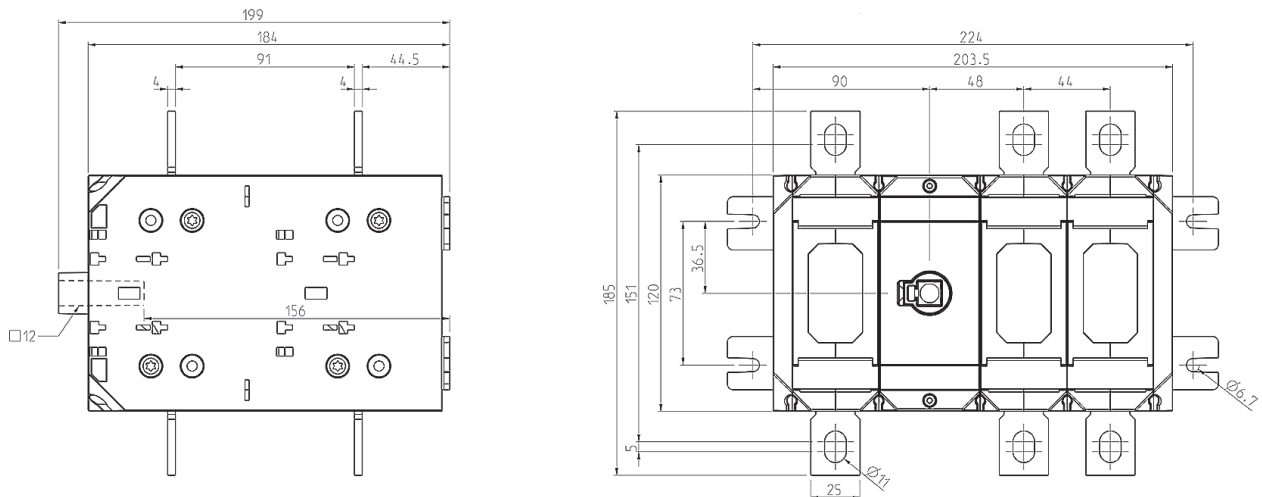
DIMENSIONAL DRAWINGS

KU 315-400A

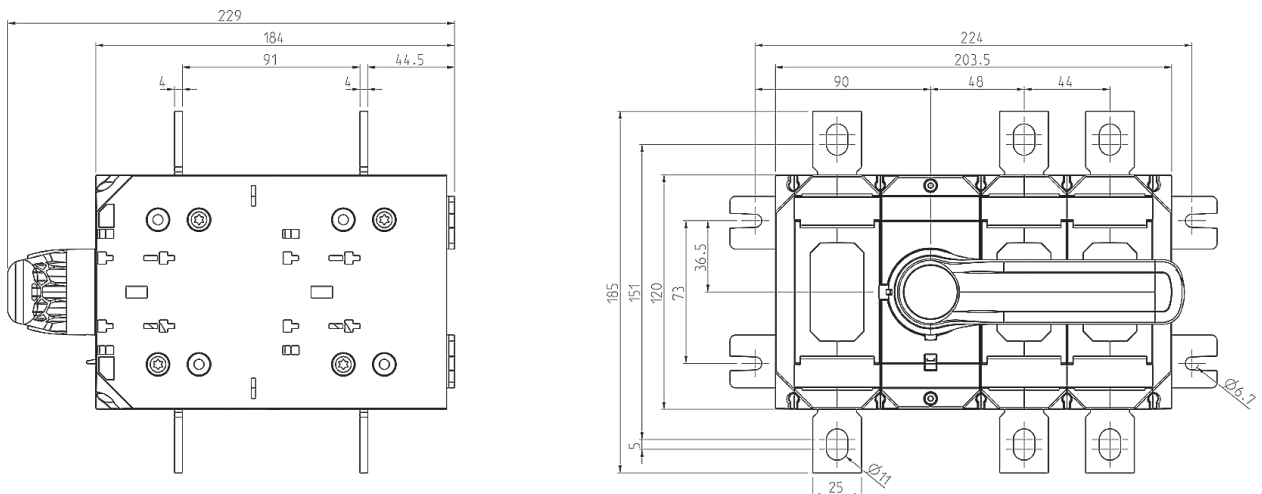
KU 4-POLE, DIRECT HANDLE



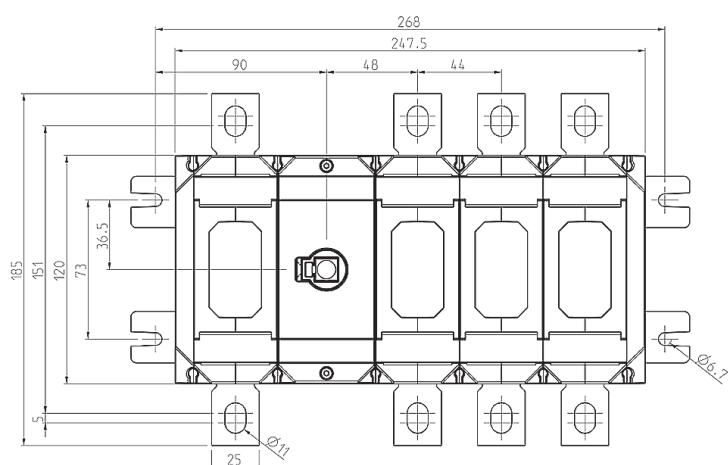
KU 6-POLE



KU 6-POLE, DIRECT HANDLE



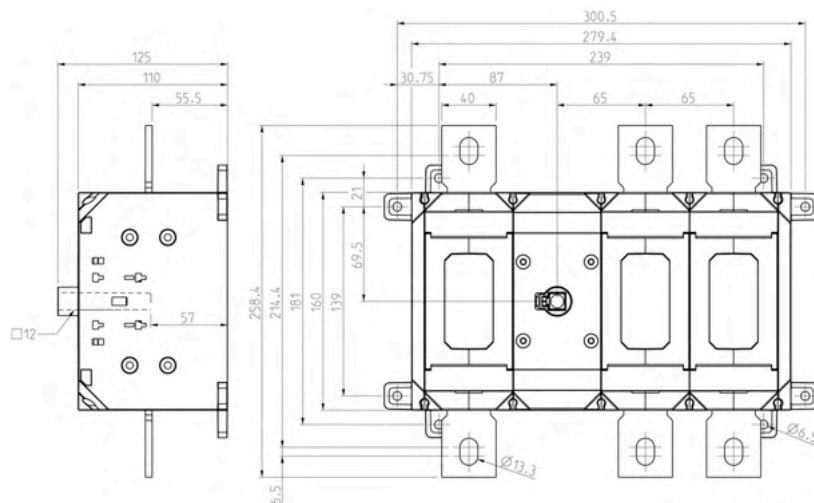
KU 8-POLE



Technical drawing of a rectangular metal plate with a central circular feature. The drawing includes the following dimensions and features:

- Overall width: 268
- Overall height: 185
- Top horizontal dimensions: 90, 4.8, 4.4
- Left vertical dimensions: 151, 120, 73, 36.5
- Bottom left corner dimensions: 5, 25
- Central circular feature with a diameter of $\varnothing 11$.
- Four circular features on the top edge with a diameter of $\varnothing 6.7$.
- Four circular features on the bottom edge with a diameter of $\varnothing 6.7$.
- Four circular features on the left edge with a diameter of $\varnothing 6.7$.
- Four circular features on the right edge with a diameter of $\varnothing 6.7$.

KU 3-POLE



Technical drawing of the 1000V 100A circuit breaker (CB) showing front and side views with dimensions.

Front View Dimensions:

- Overall width: 300.5
- Overall height: 279.4
- Mounting hole spacing (center-to-center): 239
- Mounting hole diameter: $\varnothing 13.3$
- Terminal spacing (center-to-center): 40, 65, 65
- Terminal diameter: $\varnothing 6.5$
- Internal width (excluding terminals): 160
- Internal height (excluding mounting holes): 139

Side View Dimensions:

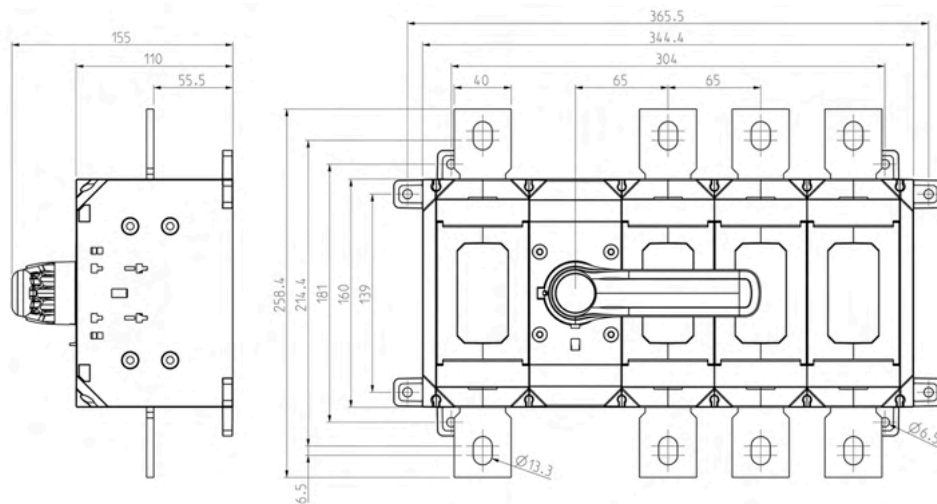
- Overall width: 155
- Overall height: 110
- Terminal height: 55.5

[illegible]

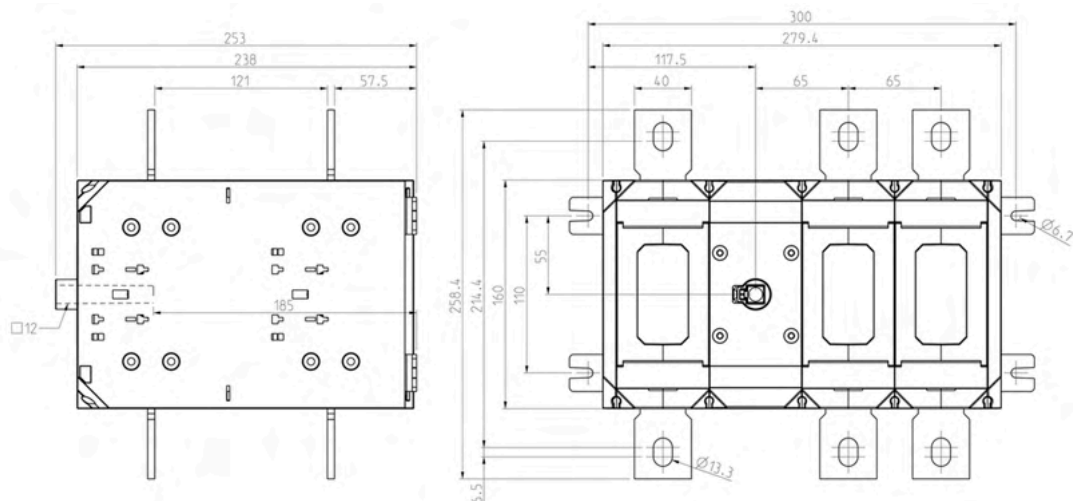
DIMENSIONAL DRAWINGS

KU 630-800A

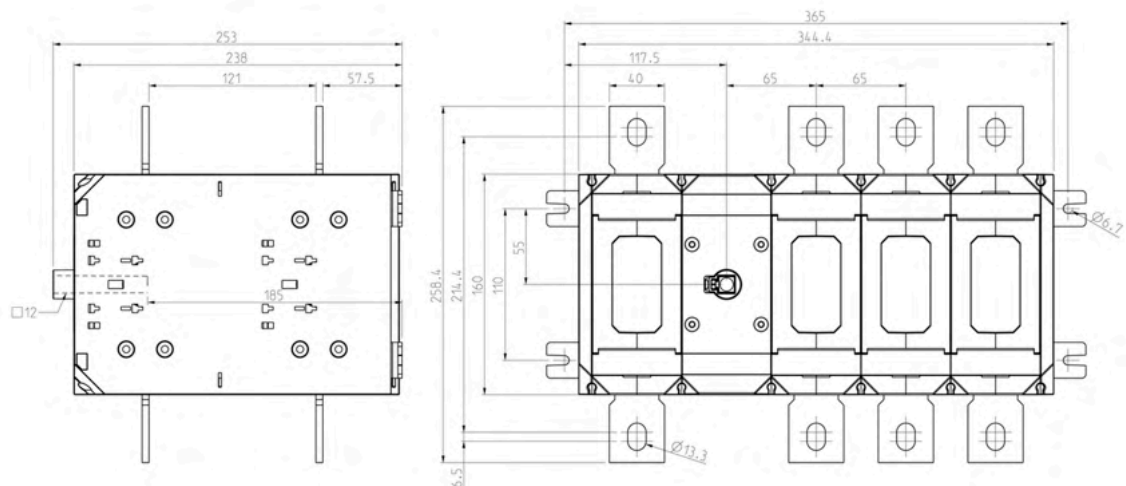
KU 4-POLE SV



KU 6-POLE

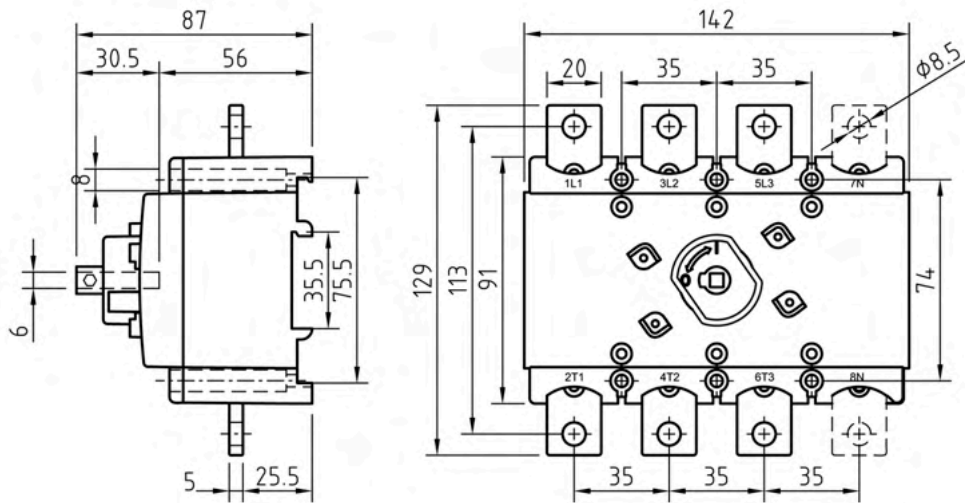


KU 8-POLE

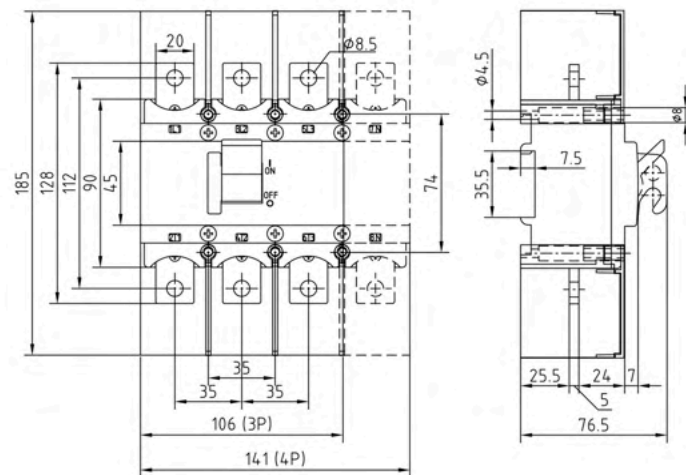


DIMENSIONAL DRAWINGS VKA & EVA 200-250A

VKA 3- & 4-POLE



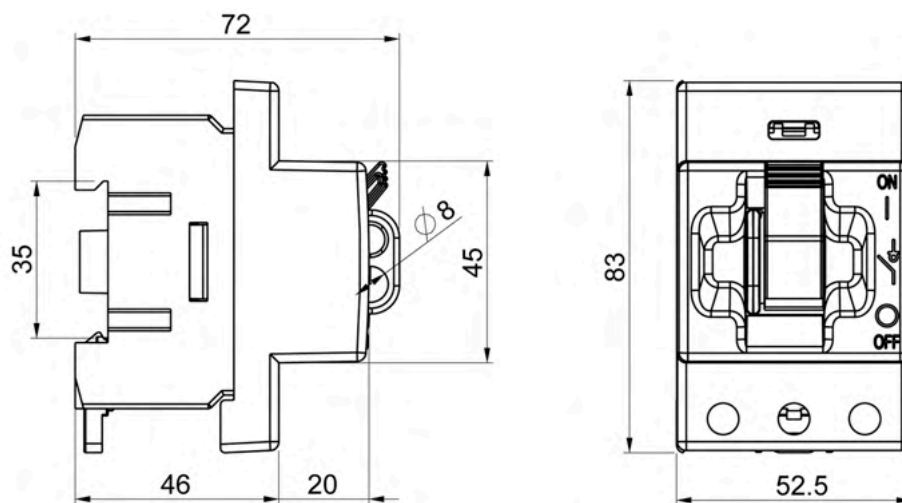
EVA 200-250 A 3- & 4-POLE



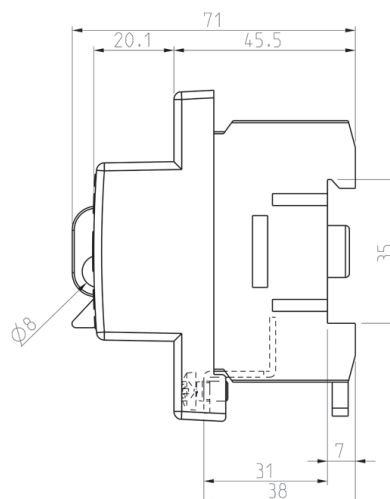
DIMENSIONAL DRAWINGS

KUE 16-125 A

KUE + KKUE

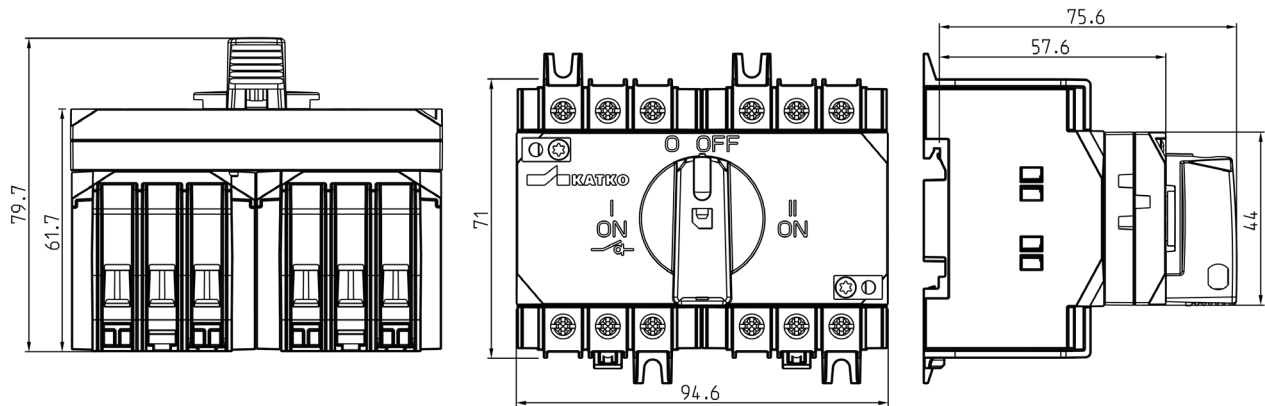


KUE AD1 + KKUE

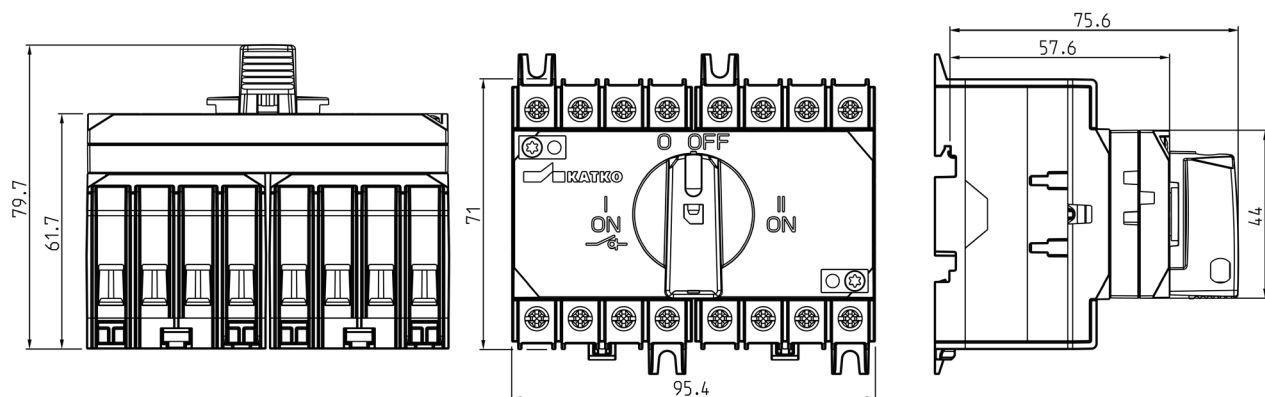


DIMENSIONAL DRAWINGS CHANGE-OVER SWITCHES

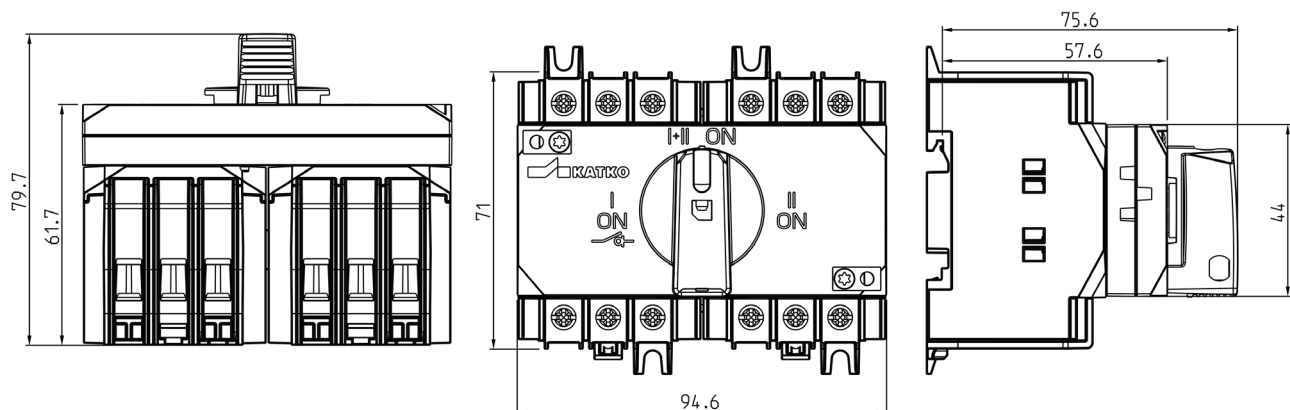
KU 16-40 A 3-POLE CHANGE-OVER (CO, open transition)



KU 16-40 A 4-POLE CHANGE-OVER (CO, open transition)

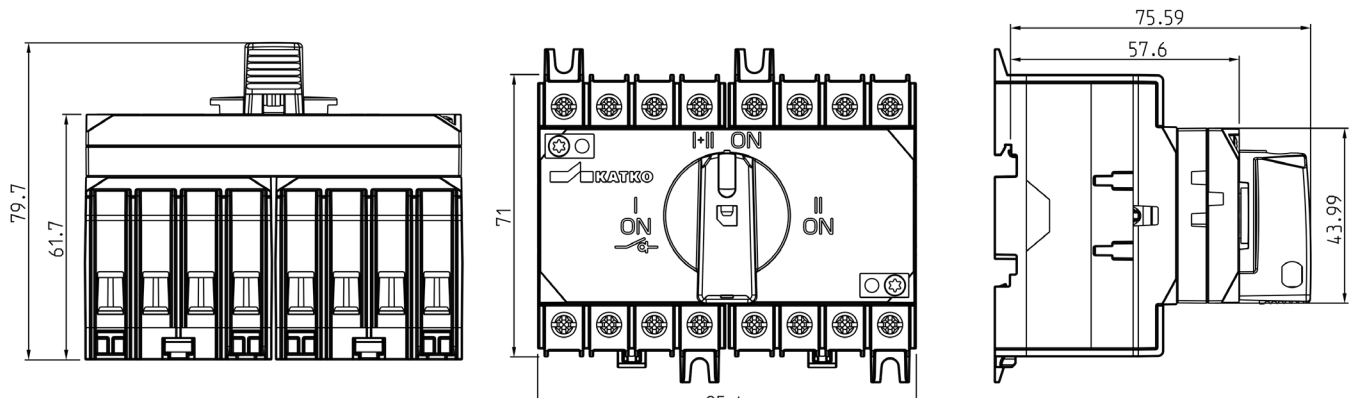


KU 16-40 A 3-POLE CHANGE-OVER (CT, closed transition)

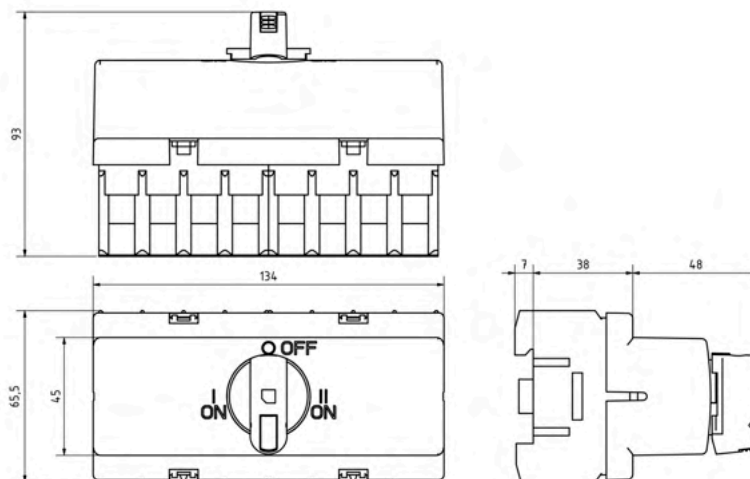


DIMENSIONAL DRAWINGS CHANGE-OVER SWITCHES

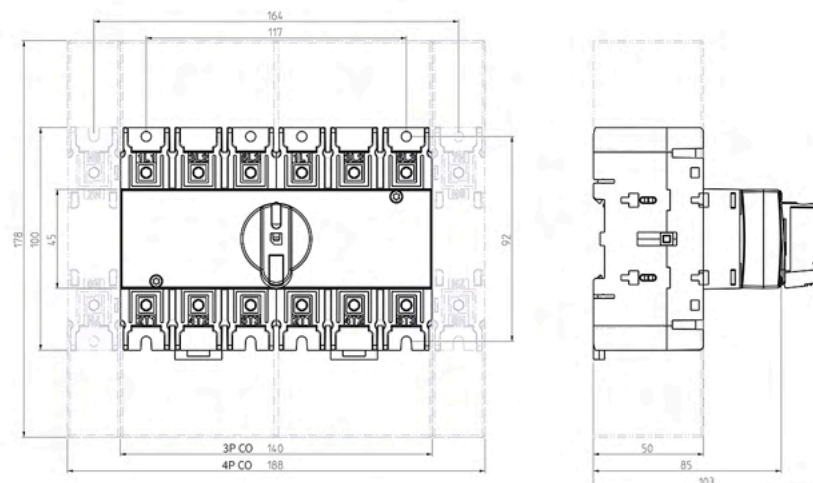
KU 16-40 A 4-POLE CHANGE-OVER (CT, closed transition)



KU 16-80 A & 125 A (N) 3- & 4-POLE CHANGE-OVER

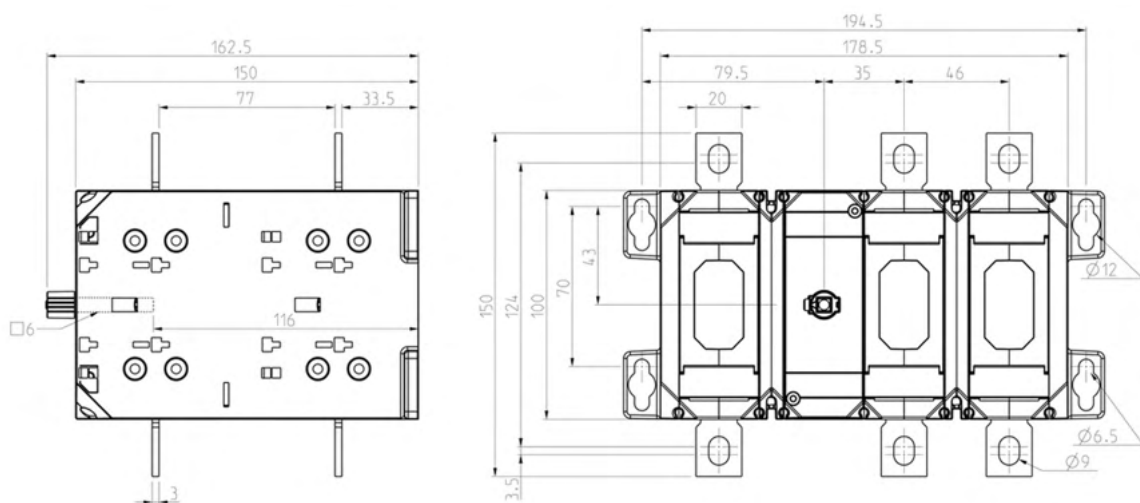


KU 100-160 A 3- & 4-POLE CHANGE-OVER

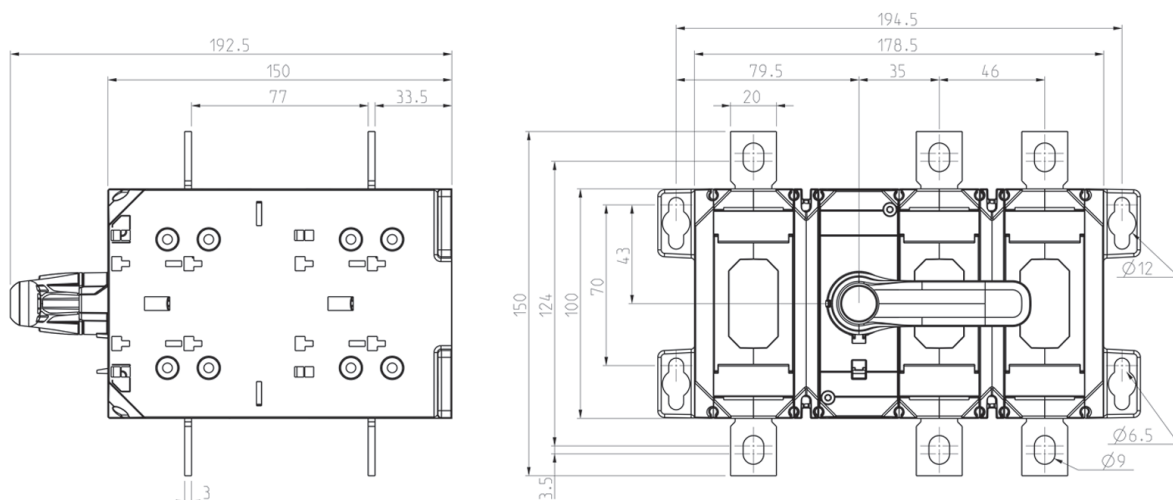


DIMENSIONAL DRAWINGS CHANGE-OVER SWITCHES

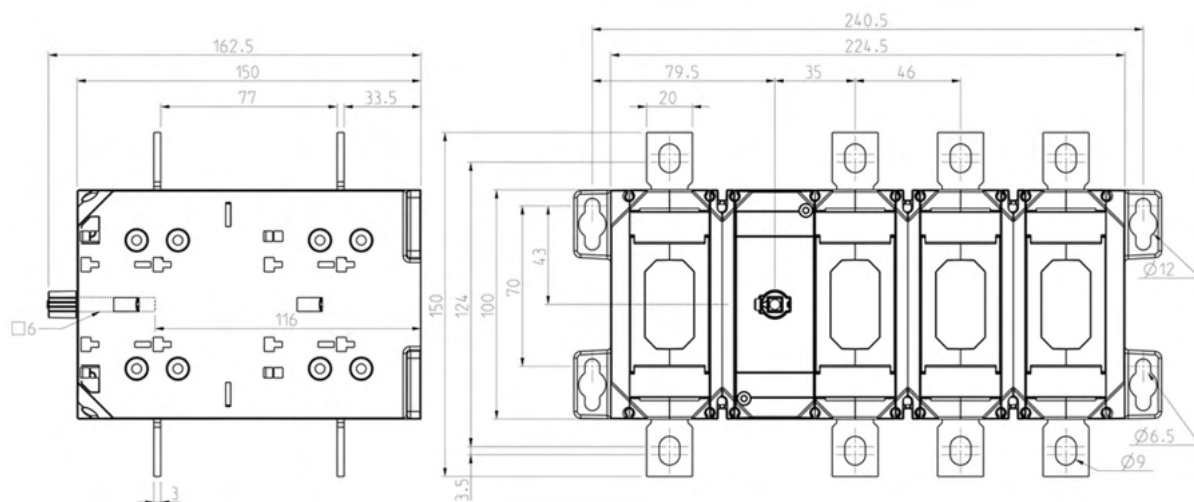
KU 200-250 A & 160 A PERFORMANCE (P) 3-POLE CHANGE-OVER (W)



KU 200-250 A & 160 A PERFORMANCE (P) 3-POLE CHANGE-OVER, DIRECT HANDLE (W)

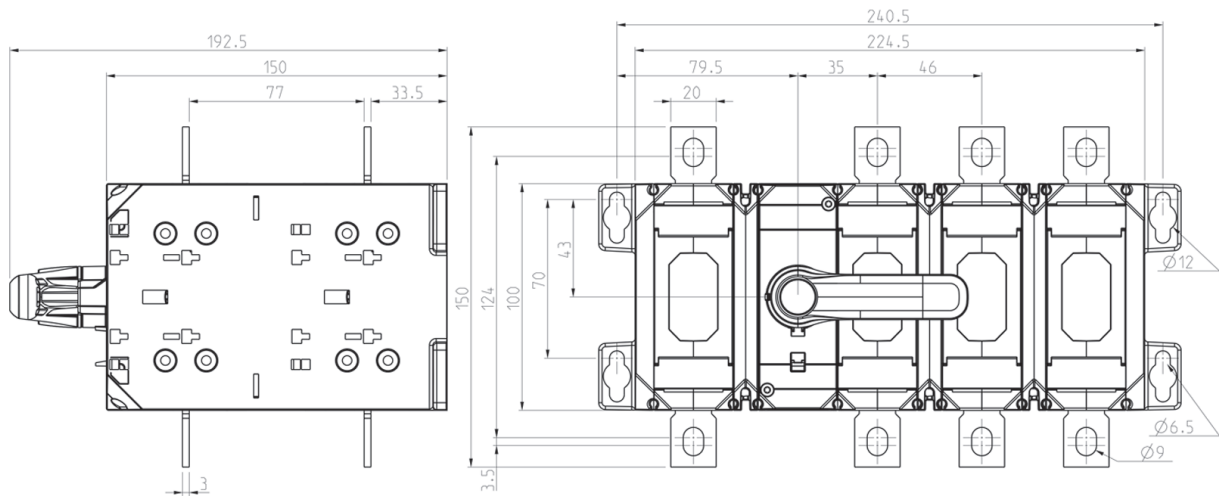


KU 200-250 A & 160 A PERFORMANCE (P) 4-POLE CHANGE-OVER (W)

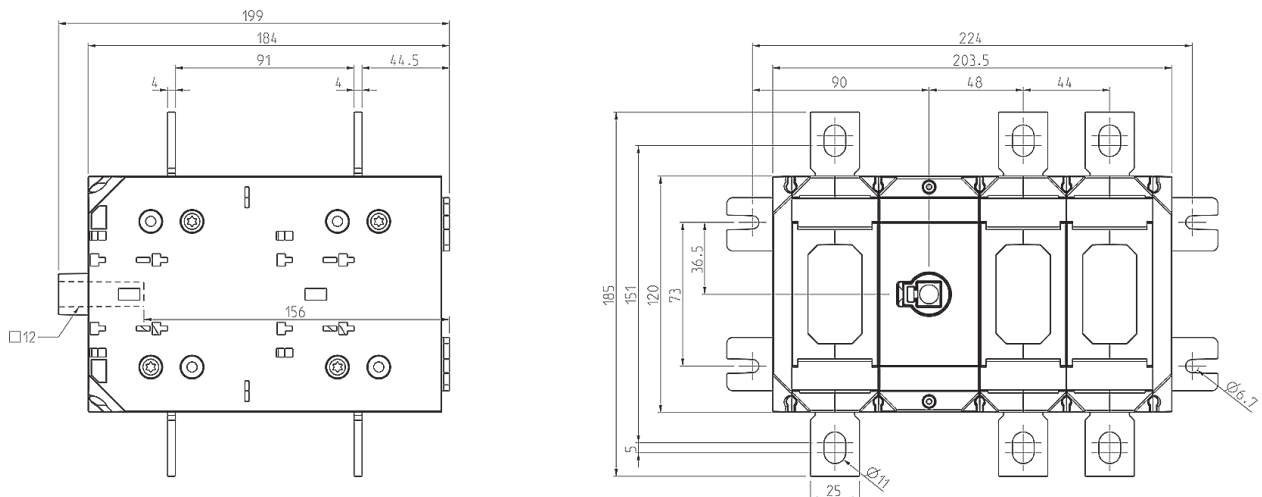


DIMENSIONAL DRAWINGS CHANGE-OVER SWITCHES

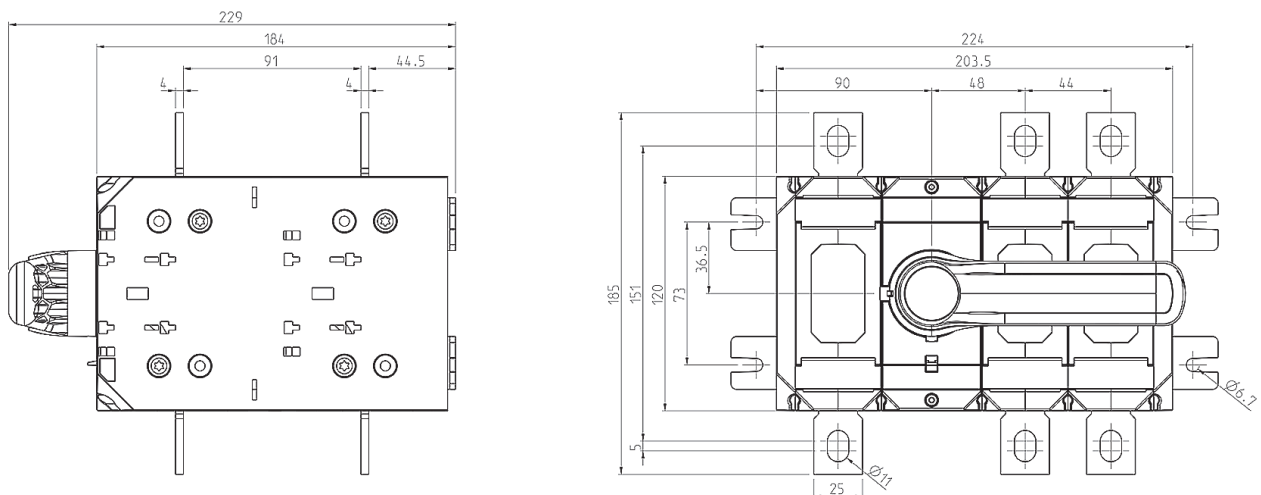
KU 200-250 A & 160 A PERFORMANCE (P) 4-POLE CHANGE-OVER, DIRECT HANDLE (W)



KU 315-400 A 3-POLE CHANGE-OVER

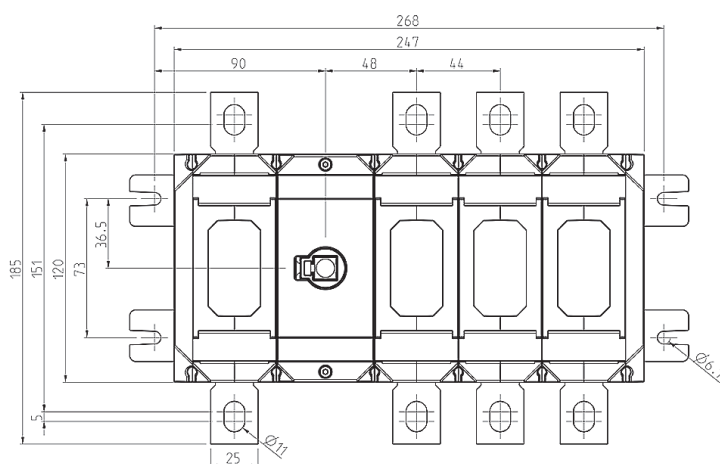
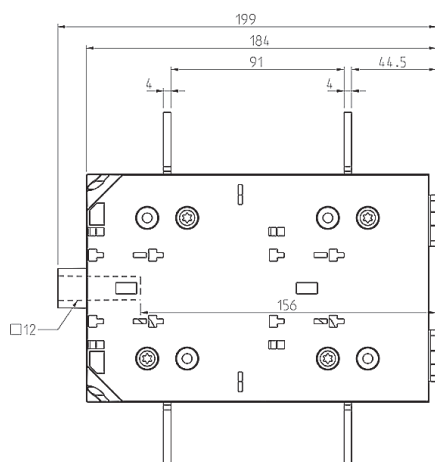


KU 315-400 A 3-POLE CHANGE-OVER, DIRECT HANDLE

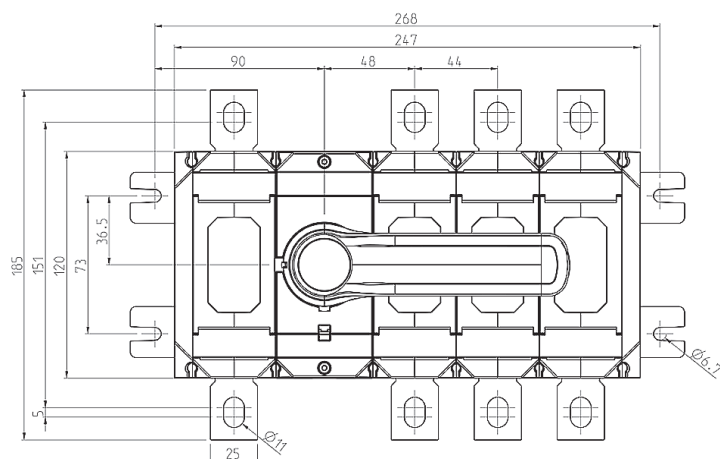
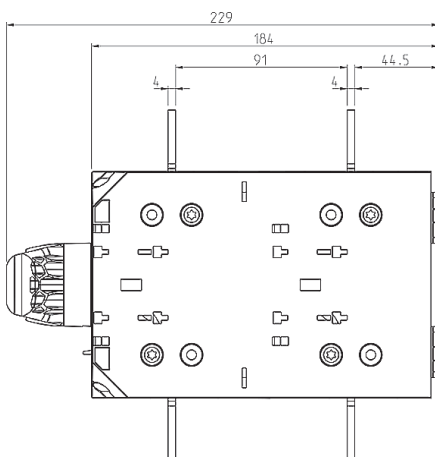


DIMENSIONAL DRAWINGS CHANGE-OVER SWITCHES

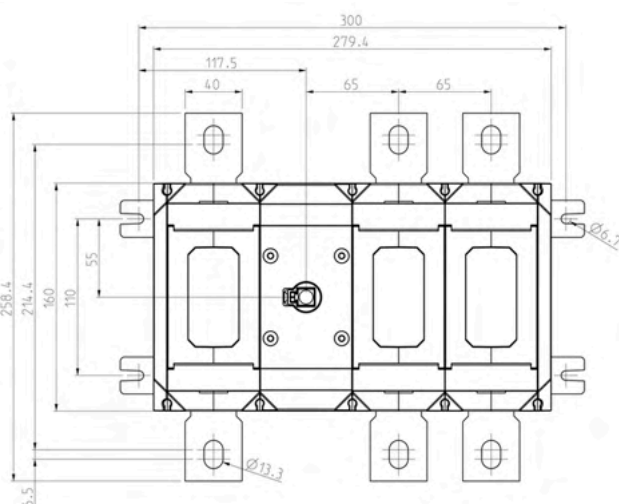
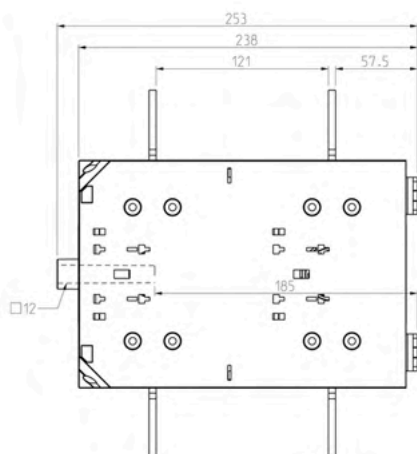
KU 315-400 A 4-POLE CHANGE-OVER



KU 315-400 A 4-POLE CHANGE-OVER, DIRECT HANDLE

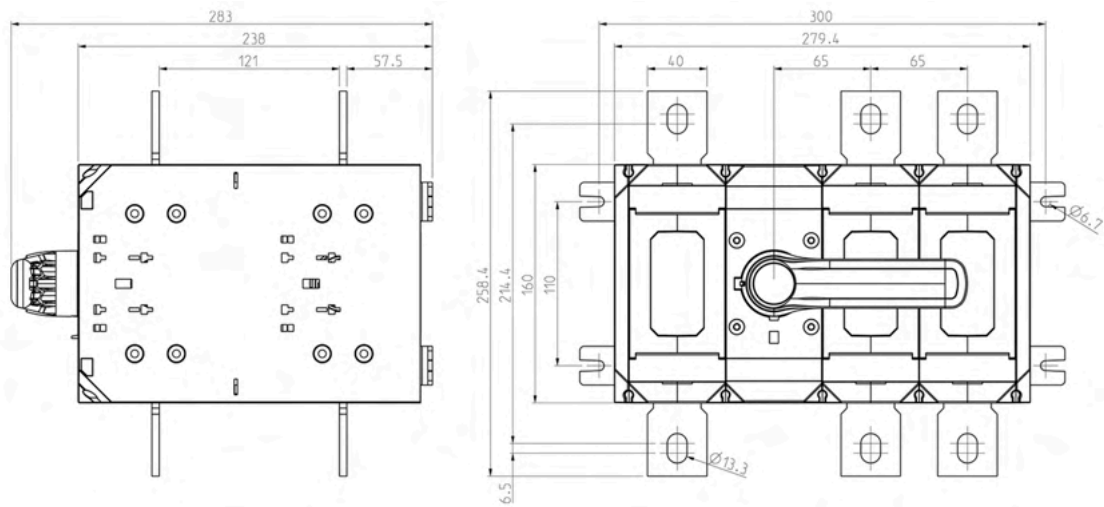


KU 630-800 A 3-POLE CHANGE-OVER

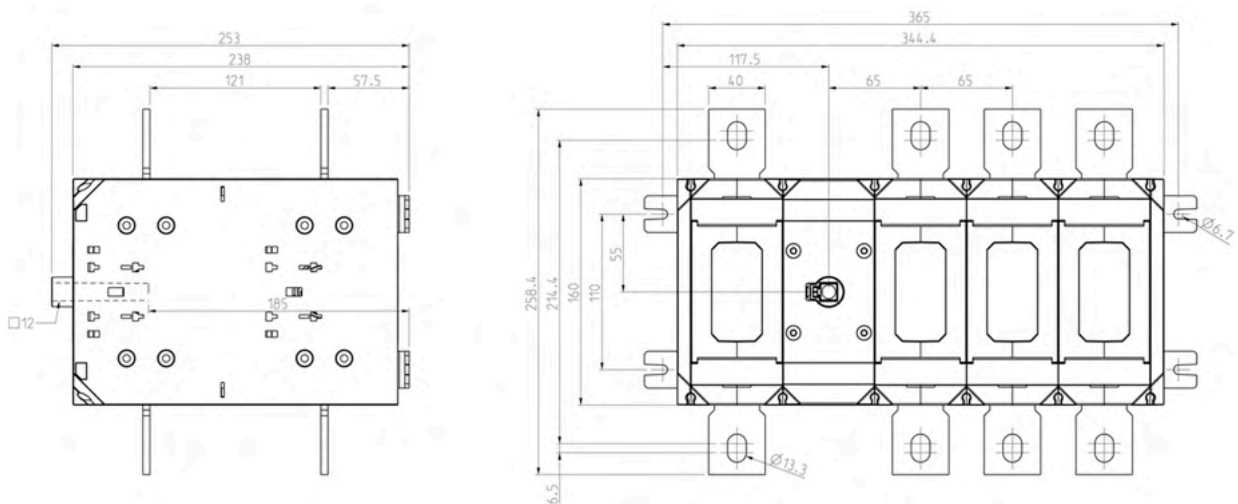


DIMENSIONAL DRAWINGS CHANGE-OVER SWITCHES

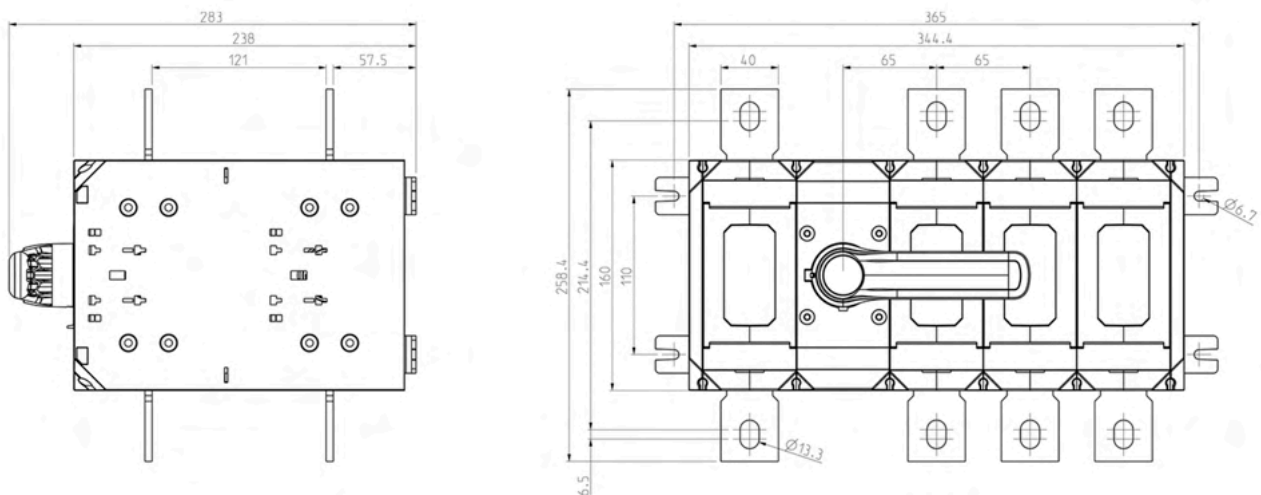
KU 630-800 A 3-POLE CHANGE-OVER, DIRECT HANDLE



KU 630-800 A 4-POLE CHANGE-OVER

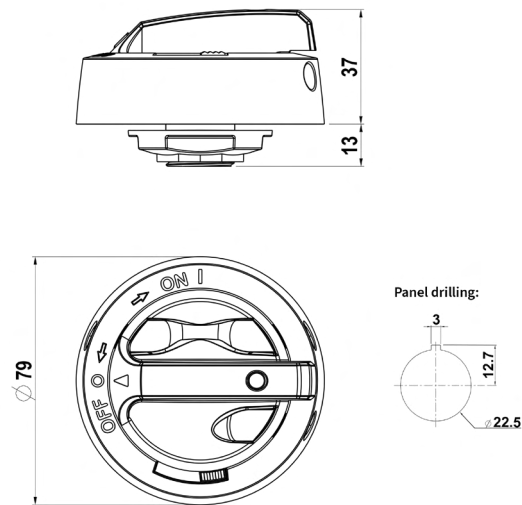


KU 630-800 A 4-POLE CHANGE-OVER, DIRECT HANDLE

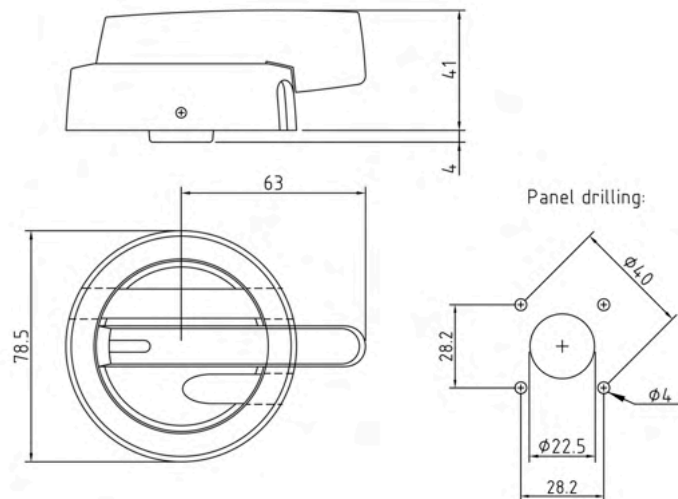


DIMENSIONAL DRAWINGS HANDLES

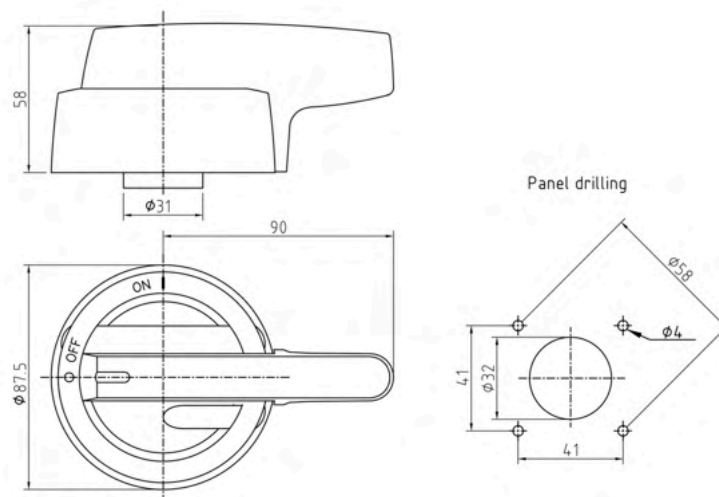
LK10



LK11

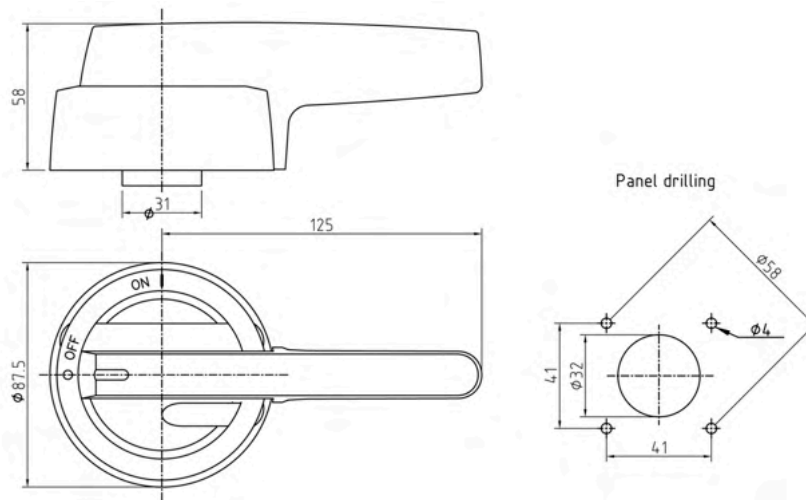


LK12

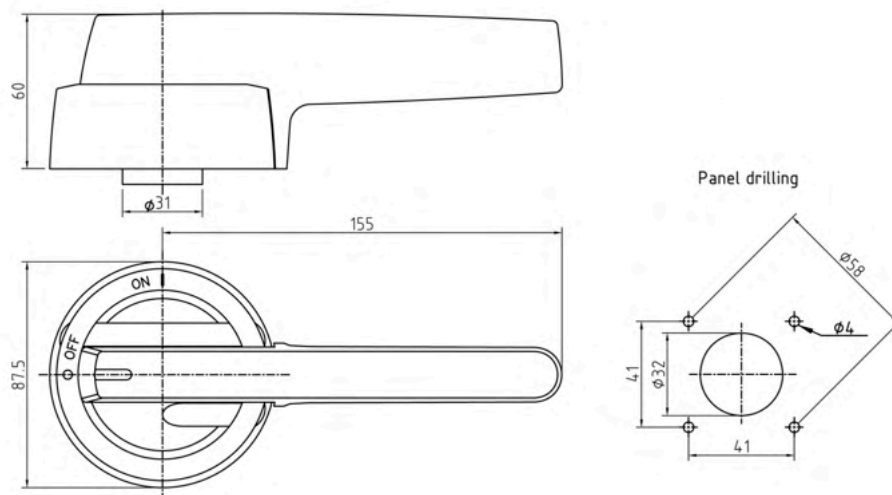


DIMENSIONAL DRAWINGS HANDLES

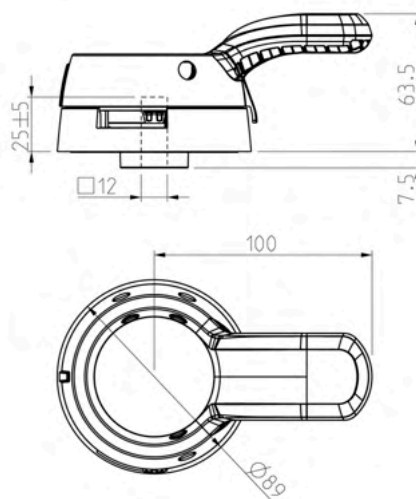
LK13



LK14

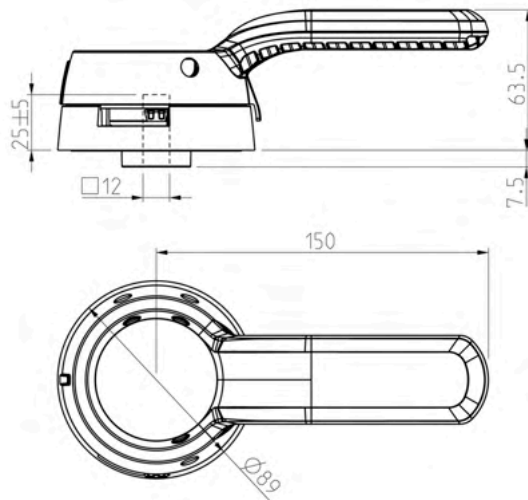


LKX100

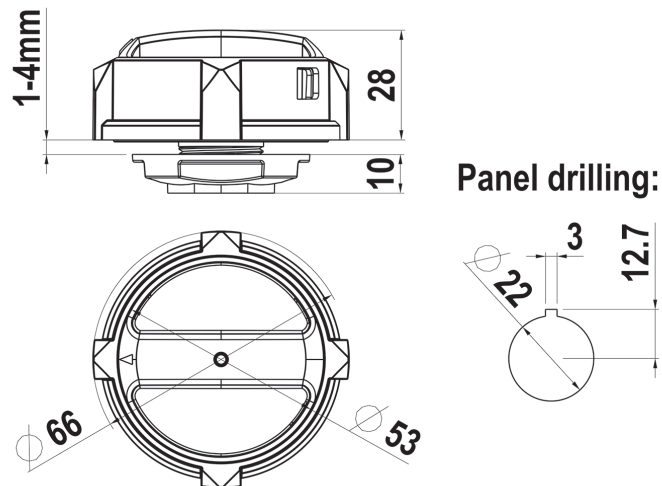


DIMENSIONAL DRAWINGS HANDLES

LKX150



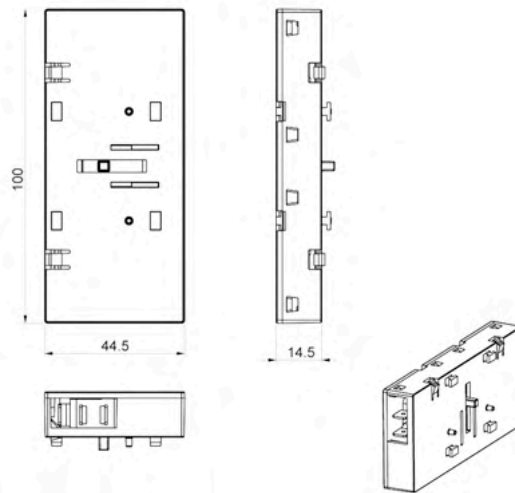
LKX50



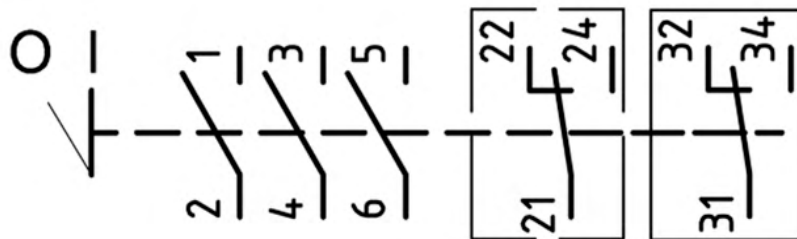
DIMENSIONAL DRAWINGS

AUXILIARY CONTACTS & SWITCHING DIAGRAMS

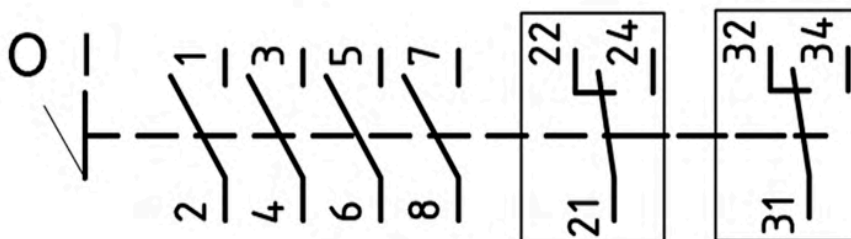
1V160KU & 2V160KU



3 pole+2NC/NO(Accessory)



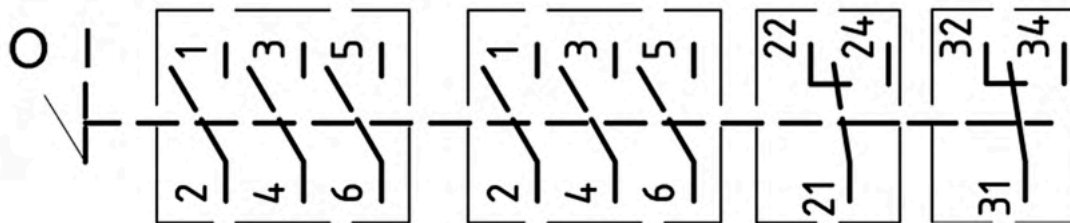
4 pole+2NC/NO(Accessory)



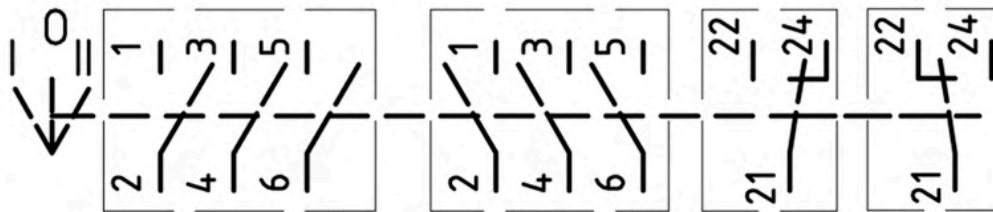
DIMENSIONAL DRAWINGS

AUXILIARY CONTACTS & SWITCHING DIAGRAMS

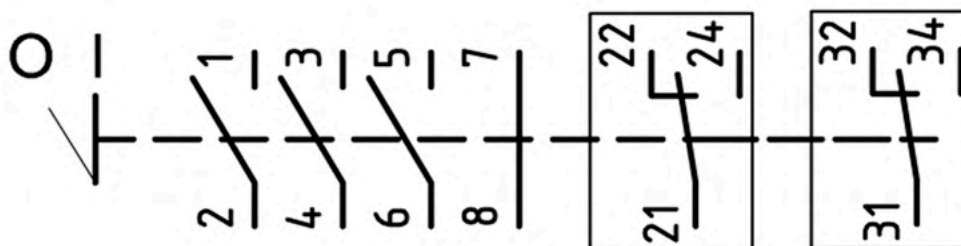
6 pole+2NC/NO(Accessory)



Change-over 3pole+2NC/NO(Accessory)

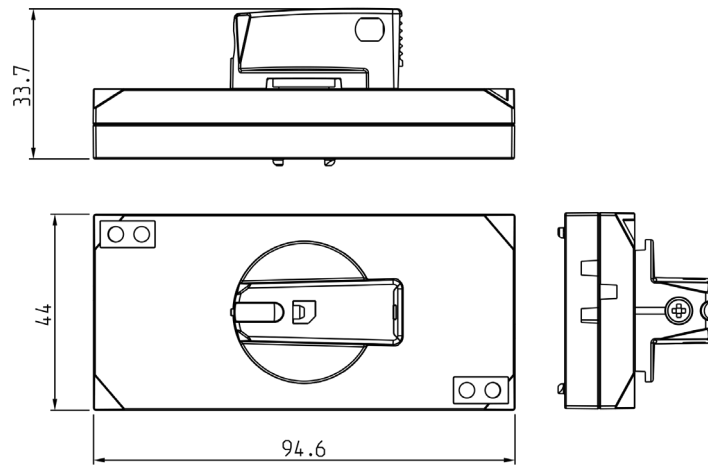


3 pole+NT+2NC/NO(Accessory)

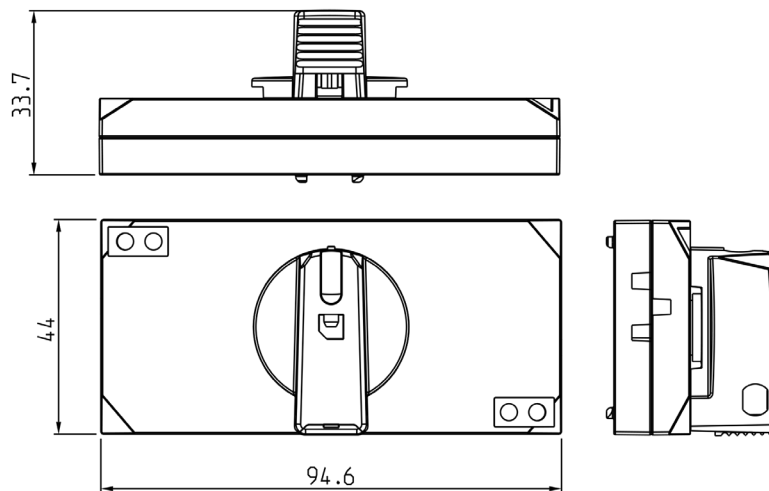


DIMENSIONAL DRAWINGS CHANGE-OVER KITS & PARALLEL KITS

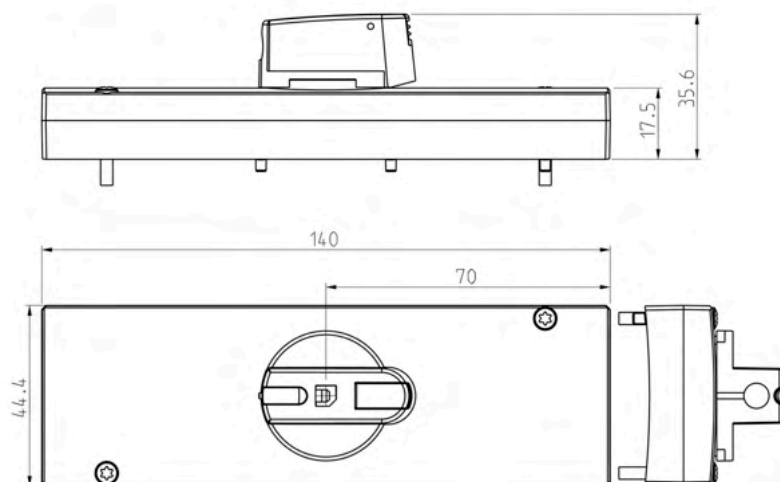
PK40KU



CO40KU & CT40KU

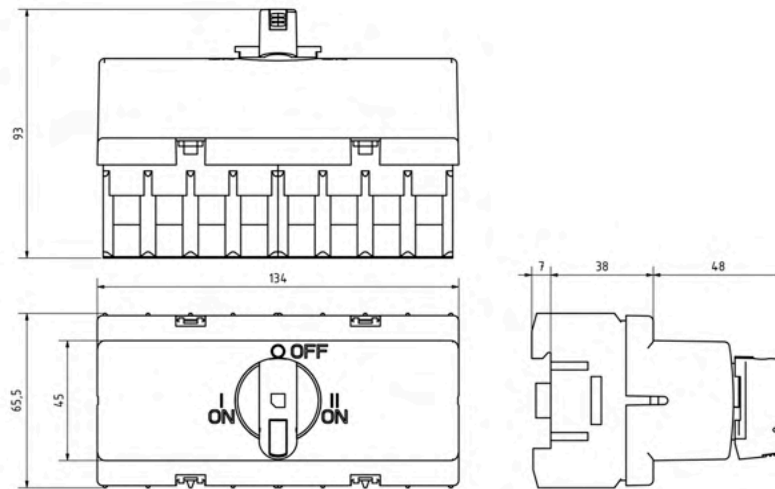


PK160KU & CO160KU

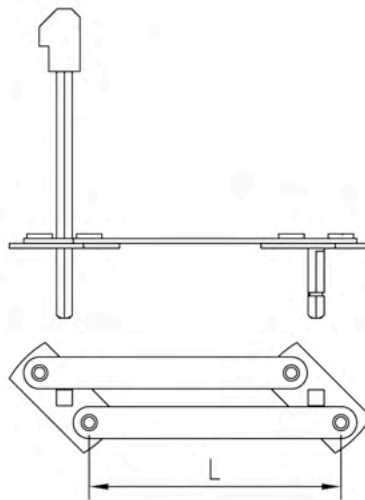


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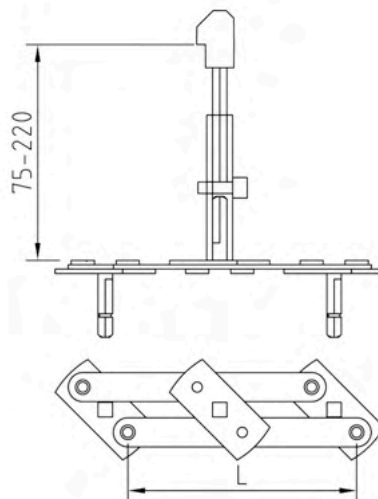
KUVV



RV S

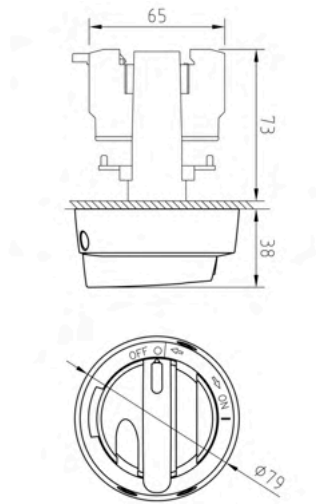


RV

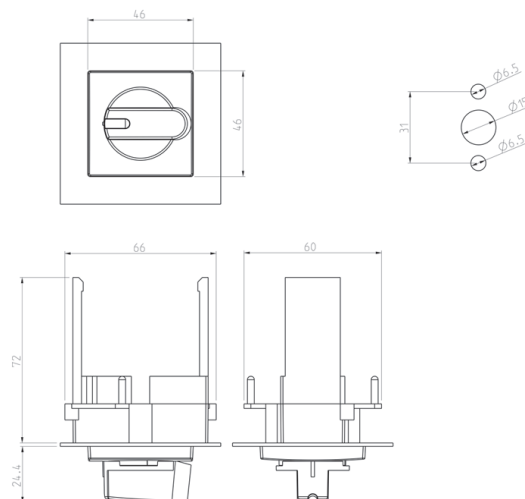


DIMENSIONAL DRAWINGS DOOR MOUNTING KITS

OKA KU LK10

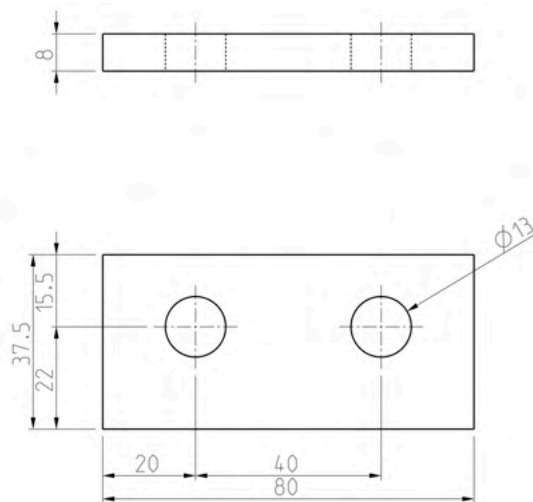


OKA KU LK6

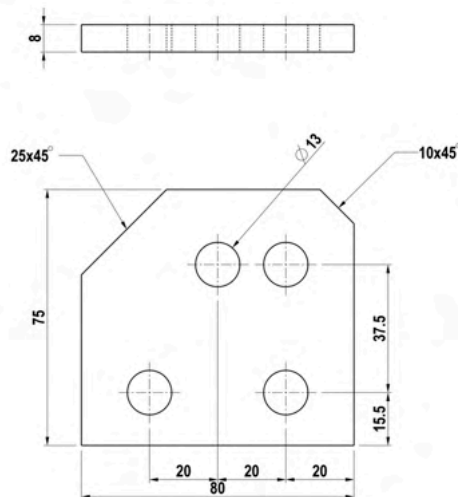


DIMENSIONAL DRAWINGS SPREADERS

ALK800C

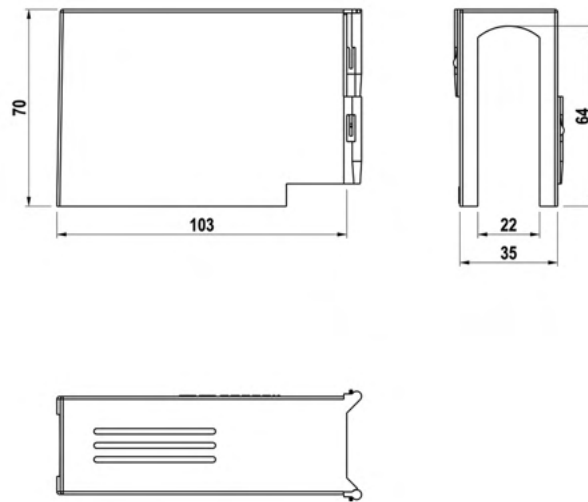


ALK800

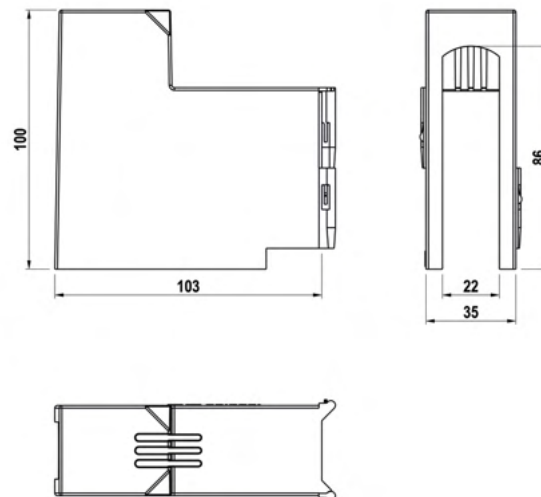


DIMENSIONAL DRAWINGS TERMINAL COVERS & PHASE BARRIERS

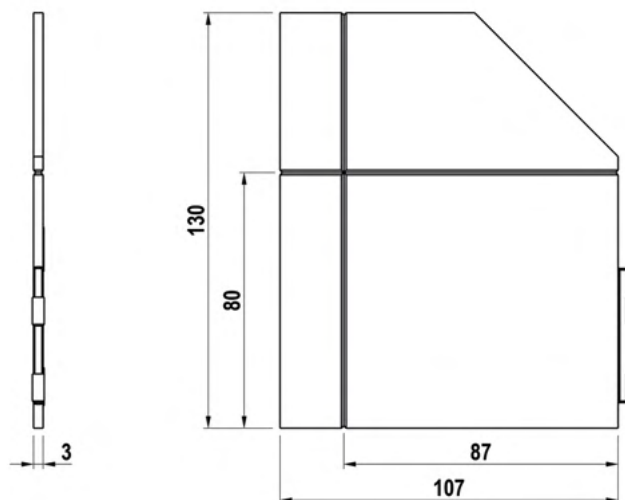
LS250F



LS250H

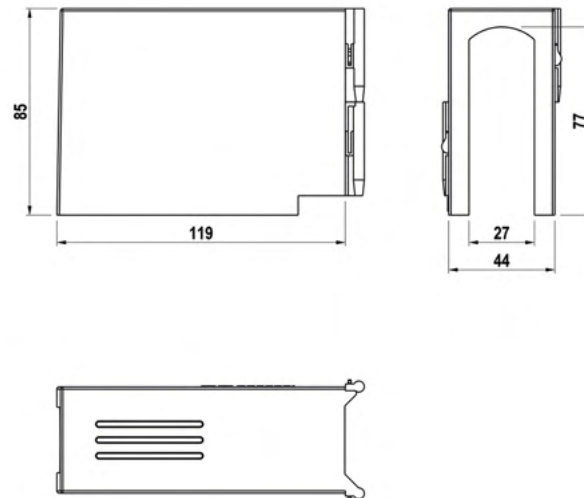


VS250

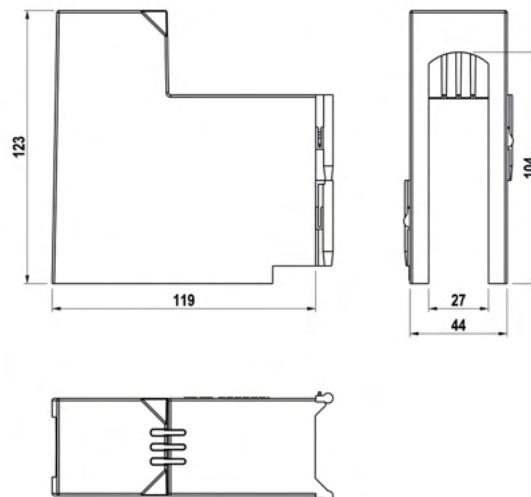


DIMENSIONAL DRAWINGS TERMINAL COVERS & PHASE BARRIERS

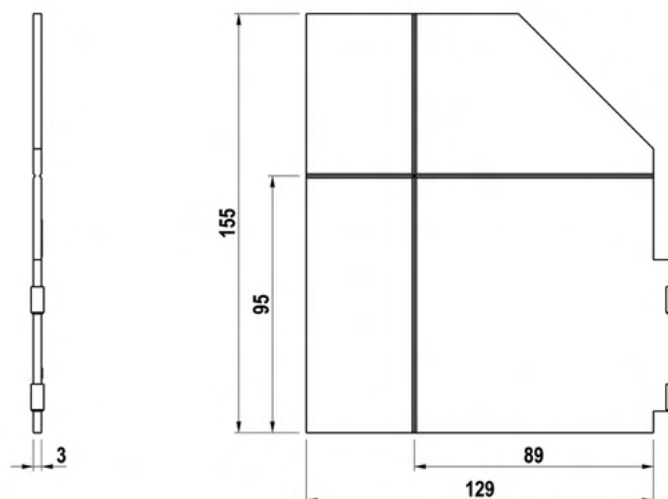
LS400F



LS400H

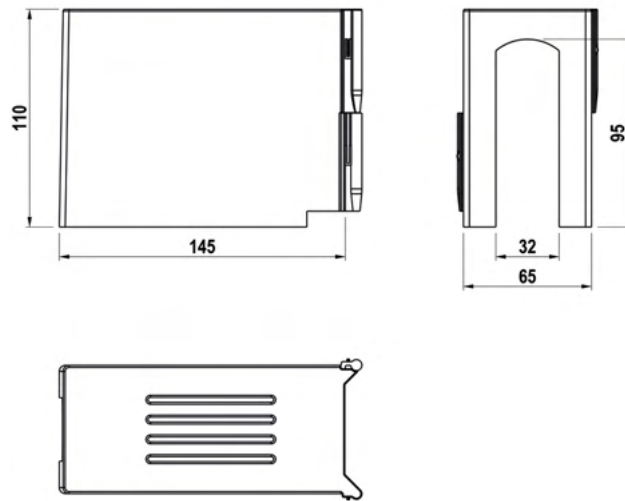


VS400

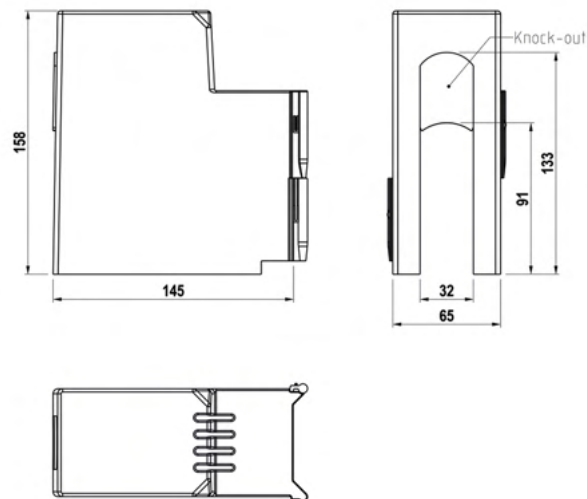


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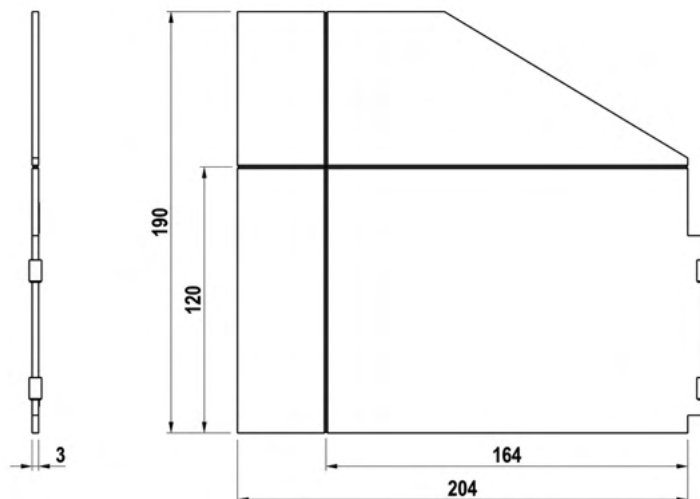
LS800F



LS800H



VS800



TERMS & CONDITIONS OF SALE

1. Applicability

These general terms and conditions of sale, delivery and guarantee (hereinafter "terms and conditions") shall, unless otherwise agreed in writing by Katko and the buyer, apply to all sales of products by Katko Oy (hereinafter "Katko"). The general terms and conditions of the buyer shall not apply even if the buyer has supplied such general terms and conditions to Katko or referred thereto in its purchase order or otherwise, unless expressly agreed in the applicable sale and purchase agreement.

These terms and conditions are in force until further notice. Katko reserves the right to update these terms and conditions at any time, in which case, unless otherwise agreed in writing by Katko and the buyer, the updated terms and conditions shall apply to sales of products sold by Katko after the effective date of such updates. The terms and conditions (as amended from time to time) are available on the Katko website at <https://www.katko.com>.

These terms and conditions have been drafted in Finnish and translated into English. In the event of any discrepancy between the two language versions, the Finnish version shall, unless otherwise expressly agreed, apply to products delivered to Finland and the English version shall apply to products delivered to countries other than Finland.

Legal concepts expressed or described herein shall be governed by and words and expressions used herein shall be construed in accordance with Finnish law albeit original Finnish terms and definitions may not always have been used.

A reference to any act, decree or regulation (or any provision thereof) is a reference to that act, decree or regulation (or the relevant provision thereof) as amended and/or re-enacted from time to time.

2. Products and Specifications

Offers for products sold by Katko are made in accordance with the specifications of Katko in force at the time the offer is made.

Katko continuously develops its production methods, products and product portfolio. Consequently, the design, components and detailed specifications of the products may change from time to time and/or the products may be replaced by newer generations of products or substitute products that fulfil the essential technical requirements of the original product. If such changes occur, it is possible that the original products initially ordered by the buyer may no longer be available from Katko.

Information on technical characteristics or other details of the products contained in Katko's sales brochures and other marketing materials may change as a result of continuous developments in production methods, products and/or product portfolio, and cannot therefore be considered binding on Katko, unless otherwise expressly agreed in writing by Katko and the buyer.

Updated, modified and/or replaced products shall replace the products governed by the agreement between Katko and the buyer, provided, however, that the modified or updated product is compatible with its original purpose and fulfils the essential technical requirements of the original product.

3 Sale

3.1 Offer

An offer made by Katko is in force for the period specified in such offer. If the term is not specified in the offer, the

offer shall expire after thirty (30) days from the date of the offer. The prices specified in the offer are exclusive of any value added tax (VAT). Katko has the right to withdraw its offer in the case there is a significant change in the prices after the submission of the offer. The offer and its contents, including any accompanying pictures, drawings, technical data or other documents, are the property of Katko or a third party, and the buyer is not entitled to use, copy, disclose or otherwise exploit the information contained in the offer for any purpose other than making a purchase decision.

3.2 Conclusion of Agreement

The agreement is concluded when Katko has confirmed the buyer's purchase order, with Katko's Order Confirmation document. It is the responsibility of the buyer to verify the accuracy of the information on the purchase order confirmation document.

4. Price

The price of the products is the price agreed between the parties. However, Katko has the right to review the price of the products as set out below. In the absence of an agreed price, the purchase price shall be the price set out in the general price list of Katko (as amended from time to time). The price of the product shall not include VAT.

Katko reserves the right to review the price of the products and to apply reasonable price adjustments if the costs to Katko affecting the price of the products change. Unless otherwise agreed in writing by Katko and the buyer, the price adjustments shall enter into force with two (2) months' written notice. The adjustment will be applied also to purchase orders already received and confirmed, if the confirmed delivery time is longer than two (2) months. Any change of the prices shall be notified to the buyer by e-mail.

The price shall not include any taxes, duties, fees or similar charges of the destination country. Such taxes, duties, fees and similar charges shall be borne by the buyer.

5 Obligations of Katko

5.1 Delivery

Unless otherwise agreed in writing between Katko and the buyer, the term of delivery for the products is EXW (the address of the Katko warehouse making the delivery) Incoterms 2020.

5.2 Ownership and Risk of Loss

The products remain the property of Katko until the price of the products has been paid in full. The risk of loss (Fi. vaaranvastuu) related to the products shall pass to the buyer at the time of delivery in accordance with the delivery term set out in section 5.1.

5.3 Delay

Katko shall not pay any liquidated damages for any delay in the delivery of the products or compensate the buyer for any damage caused by the delay.

5.4 Warranty

Katko warrants that the products conform with the specifications. It is the sole responsibility of the buyer to consider the suitability and appropriateness of the products for the use intended by the buyer. The warranty period is twelve (12) months from the date of delivery. For the sake of clarity, the delivery by Katko of a new product to replace a defective one in accordance with section 5.4 does not extend the warranty period, unless otherwise agreed. The warranty is subject to Katko being duly notified of any defect or deficiency in the products within the time limits set out in section 6.3.

As an exhaustive compensation for any non-compliance with the specifications, Katko may, at its discretion, a) replace at its expense the defective product with a new

product (which product may, taking into account the development of production methods, products and production portfolio specified in section 2, be a product materially corresponding to the original one), or b) refund the price of such products to the buyer, which, during the warranty period, are found not to conform to the specifications, provided, however, that the products are returned to the factory designated by Katko, freight paid in advance, and that Katko is notified immediately when the non-conformity with the specifications becomes apparent and the non-conformity can be demonstrated to the satisfaction of Katko to have been caused by faulty manufacture or defective materials.

Katko is not liable for any consequences, including costs, damage or loss, caused by or resulting from a) the use of the product for any purpose other than its original intended purpose in accordance with the specifications, b) connecting the product to an appliance other than the one to which it is intended to be connected according to the specifications, c) installation or use contrary to the instructions and recommendations (including the Product Lifecycle Manual published by Katko) for the products issued by Katko (as amended from time to time), or d) failure to properly service and maintain the product in conformity with its lifecycle.

Katko acknowledges its liability under the Finnish Product Liability Act for personal injury and/or damage to property caused to a private person by a product supplied by it.

The liability of Katko for defective products is limited as stated above in this section 5.4, and save for as set out above, Katko shall not be liable in any way for any costs, damages or losses (whether to real or personal property or to any person, or whether related to quality, shipment, delivery or otherwise) arising out of any non-conformity of the specifications in the products.

The buyer shall indemnify Katko against and hold Katko harmless from any loss, liability or costs (including without limitation reasonable legal fees) which Katko may incur or suffer in relation to claims by third parties against Katko with respect to the products.

5.5 Force Majeure

Katko shall not be liable for any delay or damage caused by an event beyond its control, which Katko could not reasonably be expected to have considered at the time of entering into the agreement and the consequences of which Katko could not reasonably have avoided or overcome, regardless of whether the event affects Katko or its subcontractors, or by circumstances arising from laws, regulations, orders or the absence of authorisation by any government or competent authority (hereinafter "force majeure"). Force majeure shall be deemed to include war or insurrection, earthquake, flood or other comparable natural disaster, interruption of public transport, public communications or public electricity supply, import or export ban, strike, lockout, boycott or other comparable industrial action, or problems of availability of raw materials or services. A strike, lockout, boycott or other similar industrial action is also considered force majeure if Katko itself is the object or participant thereof.

Force majeure suffered by a subcontractor or supplier of Katko shall also be deemed to be force majeure for Katko if the performance to be subcontracted or supplied cannot be performed or obtained elsewhere without unreasonable cost or substantial inconvenience. Katko may demand an extension of the delivery time of the product for as long as the force majeure continues. In the event of force majeure, the buyer may, provided that it notifies Katko in writing, acquire the products from a third party at its own expense and risk, but Katko shall not be obliged to compensate the buyer for any costs or damages incurred.

TERMS & CONDITIONS OF SALE

Katko undertakes to inform the buyer without delay of force majeure and of the cessation thereof. If the force majeure lasts for more than three (3) months, each of Katko and the buyer may terminate the agreement without any liability towards the other party with respect to such termination.

6 Obligations of Buyer

6.1 Payment

Unless otherwise agreed in writing between Katko and the buyer, the term of payment is fourteen (14) days from the date of Katko's invoice. The products are payable in full and in their entirety. The buyer shall make full payment to Katko in Euros by bank transfer with immediately available funds or by a confirmed and irrevocable Letter of Credit or other payment method accepted by Katko.

If an invoice is not paid by its due date, Katko reserves the right to delay the delivery of the products and/or further deliveries until due payments have been made. Katko shall also be entitled to suspend deliveries if it is evident from the buyer's notification or otherwise that the buyer's payment will be considerably delayed. The buyer shall not be entitled to make any claims against Katko for any such delay in delivery.

Moreover, if the buyer fails to pay any amount payable by it hereunder on its due date, default interest shall accrue in accordance with the provisions of the Finnish Interest Act on the overdue amount from the due date up to the date of actual payment. Furthermore, Katko is entitled to charge reasonable collection charges.

6.2 Delay of Buyer

If the buyer fails to provide Katko with sufficient shipping instructions or otherwise delays delivery, or Katko is otherwise forced to delay delivery for reasons attributable to the buyer, Katko has the right, at its discretion, to charge the buyer for the products according to the original delivery date, or to store, destroy and/or redistribute the products to its other customers without being liable for any loss incurred by the buyer, and to charge the buyer for any resulting costs and/or to terminate the agreement, i.e. to cancel the purchase order.

6.3 Inspection of Products

The buyer shall inspect the products for visible defects and other obvious deficiencies upon receipt.

Furthermore, the buyer shall perform a detailed inspection of the products before taking them into use. Visible defects and other obvious deficiencies must be notified to Katko immediately. Other defects must be notified within the warranty period set forth in section 5.4 without undue delay after discovery of the defect, but no later than fourteen (14) days after the buyer discovered or reasonably should have discovered the defect or deficiency in the Products.

7 Intellectual Property Rights

All rights to patents, trademarks, trade names, design, copyrights and all other intellectual property rights of Katko or its licensors, including know-how, experience and expertise relating thereto, and intellectual property rights resulting from the collaboration, such as designs, documentation, prototypes and design, relating to the products covered by this agreement, their design, manufacture, marketing and supply, shall belong exclusively to Katko and may be used by Katko in its business. Documents, drawings, works or other materials containing such rights may not be used, copied, modified, transferred, published or otherwise exploited without the prior written consent of Katko. The buyer acknowledges that all intellectual property rights in the products and documents vest exclusively in Katko,

and no intellectual property rights or rights of use are transferred to the buyer under this agreement except to the extent expressly permitted by this agreement.

8 Insurances

All rights to patents, trademarks, trade names, design, copyrights and all other intellectual property rights of Katko or its licensors, including know-how, experience and expertise relating thereto, and intellectual property rights resulting from the collaboration, such as designs, documentation, prototypes and design, relating to the products covered by this agreement, their design, manufacture, marketing and supply, shall belong exclusively to Katko and may be used by Katko in its business. Documents, drawings, works or other materials containing such rights may not be used, copied, modified, transferred, published or otherwise exploited without the prior written consent of Katko. The buyer acknowledges that all intellectual property rights in the products and documents vest exclusively in Katko, and no intellectual property rights or rights of use are transferred to the buyer under this agreement except to the extent expressly permitted by this agreement.

9 General Limitation of Liability

Unless expressly stated otherwise in these terms and conditions, Katko shall in no event be liable for any direct or indirect damage, including damage to property, loss of production, loss of profit or other consequential economic loss incurred by the buyer or a third party in relation to any defects in the product, delay in delivery or defective delivery or any other breach of agreement. In all cases, the liability of Katko for direct damage (Fi. välitön vahinko) shall be limited to the amount corresponding to the price paid by the buyer for the products.

Nothing in these terms and conditions operates to exclude or limit any liability of any party in respect of breaches of agreement due to an intentional act or gross negligence of such party. The above-mentioned limitations of liability do not apply to damage or loss incurred as a result of infringement of intellectual property rights or failure to comply with confidentiality obligations.

10 Confidentiality

The buyer agrees not to disclose to any third party any offer, purchase order confirmation or other technical, commercial or other confidential information ("confidential information") disclosed by Katko to the buyer, whether marked as confidential or not. Confidential information shall not be disclosed to third parties or used for any purpose other than in connection with the purchase and use of the products without the prior written consent of Katko, unless disclosure is required by mandatory law.

The buyer's obligation of confidentiality does not apply to information a) which is or becomes public by no involvement of the buyer, b) which is the legitimate possession of the buyer before disclosure and which the buyer has not obtained from Katko, directly or indirectly, as demonstrated by the buyer, c) which the buyer can prove to have developed independently without using or referring to confidential information; or d) which is subject to disclosure by applicable law or regulation, in which case the buyer shall, however, inform Katko of the disclosure and the details thereof to the extent permitted by law and practically possible.

Furthermore, the buyer also undertakes otherwise not to use the confidential information in a manner that benefits third parties or is inconsistent with the terms or purpose of this agreement.

11 Processing of Personal Data

The parties will process the personal data they receive under the agreement as independent controllers. The buyer undertakes to comply with applicable laws and regulations on the processing of personal data and not to transfer, use or otherwise process the personal data provided by Katko in violation of such laws and regulations.

Where Katko processes personal data on behalf of the buyer, the parties shall agree on the terms and conditions of the processing of personal data in a separate personal data processing agreement, which shall be concluded, unless otherwise agreed by the parties, according to the personal data processing agreement model template of Katko.

12 Compliance with Laws, Regulations and Directions

12.1 General

Katko warrants, and expects the buyer to warrant, that it is not subject to any financial sanctions or under notified official investigation or inquiry by any competent authority in respect of applicable anti-bribery legislation, or economic or financial sanctions or legislation with respect to grey economy or the prevention of terrorism and money laundering.

Katko is committed, and expects the buyer to commit a) to responsible business practices, b) to paying particular attention to ensuring that its business activities comply with the requirements of applicable laws and regulations, including with respect to ESG (economic, social and governance) and prevention of grey economy, c) to provide, if necessary, details of its ownership structure regarding the foregoing, d) to notify any material changes regarding the foregoing; and e) to comply with Katko's general business principles, its code of conduct for business partners and any other rules and guidelines issued by Katko (as amended from time to time) to further ethics, sustainability, anti-corruption, safety at work or other matters of responsibility. The current rules and guidelines are available on the Katko website at <https://www.katko.com>.

12.2 No Re-export to Sanctioned Countries

No Re-export to Sanctioned Countries For the purposes of this section 12.2, "Sanctioned Country" shall mean any country in the world subject to international sanctions (including any regulation, order or directive which imposes trade sanctions or other restrictive measures) on grounds pursuant to resolutions by the United Nations Security Council or on an autonomous national or regional basis pursuant to measures imposed or administered by the United States of America, the European Union or its Member States or the United Kingdom.

Notwithstanding the generality of section 12.1 above, the buyer acknowledges and agrees that in no event may the products, or any part thereof, be distributed to any Sanctioned Country.

The buyer i) shall not sell, export or re-export, directly or indirectly, any products supplied under or in connection with this Agreement to any Sanctioned Country or for use in a Sanctioned Country; ii) shall undertake its best efforts to ensure that the purpose of item i) above is not frustrated by any third parties further down the commercial chain, including by possible resellers; and iii) shall set up and maintain an adequate monitoring mechanism to detect conduct by any third parties further down the commercial chain, including by possible resellers, that would frustrate the purpose of item i) above.

TERMS & CONDITIONS OF SALE

Any violation of this section 12.2 shall constitute a material breach of an essential element of the agreement between Katko and the buyer, and Katko shall, without prejudice to any other rights it may have and at its sole discretion, be entitled to i) suspend any obligations under the agreement between Katko and the Buyer until further notice without any liability whatsoever; ii) terminate the agreement between Katko and the Buyer; and iii) liquidated damages of an amount equalling 10% of the total value of the price of the products sold to the buyer. The liquidated damages shall not limit Katko's right to receive full compensation for any actual loss or damage in excess of the liquidated damages, which is caused to Katko as a result of such breach.

The buyer shall immediately inform Katko about any problems in applying its obligations under this section 12.2, including any relevant activities by third parties that could frustrate the purpose of this section 12.2. The buyer shall make available to Katko information concerning compliance with its obligations under this section 12.2 within two weeks of the simple request by Katko of such information.

The buyer acknowledges that if Katko becomes aware of a breach or circumvention of the buyer's obligation under this section 12.2, Katko is obliged to inform competent authorities of such breach or circumvention.

13 Governing Law and Dispute Resolution

These terms and conditions and the agreement entered into by the parties in accordance therewith shall be governed by the laws of Finland excluding its choice of laws provision.

Any dispute, controversy or claim arising out of or relating to these terms and conditions and the agreement entered into by the parties in accordance therewith, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of the Finland Chamber of Commerce.

The seat of arbitration shall be Helsinki, Finland. The language of the arbitration shall be English.

14 General Conditions ORGALIM S 2022

In addition to these terms and conditions, the General Conditions ORGALIM S 2022 (General Conditions for the Supply of Mechanical, Electrical and Electronic Products, hereinafter "ORGALIM S 2022") shall apply, unless Katko and the buyer have agreed otherwise in writing. In the event of any conflict between these terms and conditions and ORGALIM S 2022, these terms and conditions shall prevail, unless otherwise expressly agreed.



Katko is a Finnish electrical industry company, specializing in designing, manufacturing, and delivering leading solutions for the electrical installation sector. At Katko, we are pioneering high-quality electrical switches and other installation products. Our commitment to sustainability and installer-friendly solutions sets us apart in the industry. Supported by our extensive network of distribution partners and manufacturing facilities in Finland and Poland, we are able to ensure the availability of our solutions in over 70 countries around the globe.

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